

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

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

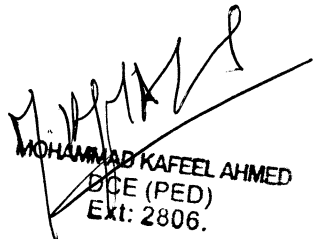
ANNEXURE 'A'

Material PROCUREMENT OF 3-1/8", 5,000PSI W.P. X-MASS TREES ALONG WITH SPARES & SERVICES
Tender Enquiry No PROC-FB/LCB/PE&FD/4784/20
Due Date
Evaluation Criteria GROUP WISE

SCHEDULE OF REQUIREMENT

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
Group A								
1	X-MASS TREES ASSEMBLIES, 3-1/8 inch 5000 PSI WP WITH ACCESSORIES. ALL MATERIAL TO BE AS PER API 6A LATEST EDITION, PSL-3, PR-2, TEMP CLASS 'X', MATERIAL CLASS 'EE'. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Sets	20					
Group B								
2	4-1/16" 10000 PSI POSITIVE CHOKE VALVES WITH ACCESSORIES MATERIAL CLASS FF. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	4					
3	4-1/16" 10000 PSI GATE VALVES WITH ACCESSORIES MATERIAL CLASS EE. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	8					
4	5-1/8", 5000 PSI ADJUSTABLE CHOKE VALVES WITH ACCESSORIES MATERIAL CLASS FF. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	3					
5	5-1/8", 5000 PSI POSITIVE CHOKE VALVES WITH ACCESSORIES MATERIAL CLASS FF. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	3					
6	5-1/8", 3000 PSI ADJUSTABLE CHOKE VALVES WITH ACCESSORIES MATERIAL CLASS FF. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	4					
7	5-1/8", 3000 PSI POSITIVE CHOKE VALVES WITH ACCESSORIES MATERIAL CLASS FF. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	4					
8	3-1/8", 5000 PSI HYDRAULIC ACTUATOR SURFACE SAFETY VALVES WITH ACCESSORIES MATERIAL CLASS EE. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	7					
9	3-1/16", 10000 PSI HYDRAULIC ACTUATOR SURFACE SAFETY VALVES WITH ACCESSORIES MATERIAL CLASS EE. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	3					
10	4-1/16", 5000 PSI HYDRAULIC ACTUATOR SURFACE SAFETY VALVES WITH ACCESSORIES MATERIAL CLASS EE. FOR DETAILS SEE ATTACHED TECHNICAL DATA SHEETS	Number	3					

- Note:**
1. BID BOND FOR GROUP A IS US \$ 22,000/- OR EQUIVALENT PAK RUPEES AND FOR GROUP B IS US\$ 5,000/- OR EQUIVALENT PAK RUPEES TO BE SUBMITTED WITH BID.
 2. EVALUATION CRITERIA IS EACH GROUP WISE ON CFR BY SEA BASIS.
 3. BIDDING PROCEDURE IS "SINGLE STAGE ONE ENVELOPE"
 4. DELIVERY PERIOD IS MENTIONED IN ATTACHMENTS


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GROUP A

3-1/8 inch 5000 psi X-mass Trees along with necessary accessories and Services from Prequalification of X-mass Trees Equipment Manufacturers Tender Reference # PROC-FB/CB/PROD-3340/2018 'Category # 01'. All Material to be forged, and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'EE'

Sr. No	DESCRIPTION	QTY	UOM	Cost in US \$	REMARKS
1	Christmas Tree/Gate Valve Assembly Each assembly should supplied in assembled form having following components.(Sr. No. 1.1 to 1.10, please refer to figure # 1)	20	Sets	Lump sum cost of X-Mass Tree item 1.1 to 1.10	
1.1	One (1) 11" API 5000 psi WP bottom x 3-1/8" API 5000 psi WP double studed pack-off flange (forged material), with two 1/4" control lines preparation, pack-off flange must have two exit blocks for the 1/4" control line as per figure-3 . Exit block must have 1/2" NPT connection for control panel, along with all necessary SS fittings for continuous control line installation and connection to control panel (the pack-off flange must be compatible with tubing head spool (item # 16) and the tubing hanger (item # 22 & 25). Please refer to figure # 3.				
1.2	Six (6) 3-1/8" 5000 psi WP Double Flanged gate valves (forged material), including Hand wheels. One each as LMV & swab valve and two on each wing,(06 No. /X-Mass Tree Assy).				
1.3	One (1) 3-1/8" 5000 PSI W.P. hydraulically actuated gate valve (forged material) as UMV. Each with hydraulic override (hand wheel to be provided) and fusible hold open device,(01 Nos. /X-Mass Tree Assy)				
1.4	One (1) 3-1/8" x 3-1/8" x 3-1/8" x 3-1/8" 5000 PSI WP studed cross (forged material), (01 No / X-Mass Tree Assy).				
1.5	One 3-1/8" 5000 PSI WP X-Mass tree top flange with OTIS type code 'G' quick union (5-3/4" - 4 ACME, 4" seal diameter, 3" nominal ID, 10,000 psi W.P. STD/H2S service) with a 1/2" NPT tap on the top for pressure gauge installation (plugged). Inside of top flange should have 3-1/2" 10.3 lb/ft Hydril CS or equivalent female pickup/lifting Threads (01 No. /X-Mass Tree Assy). The ID should allow running of the 3-1/32" type 'H' BPV.				

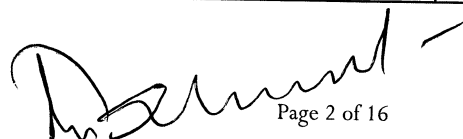
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DR. NASEEM AHMAD
Executive Director (Prod/JJV)
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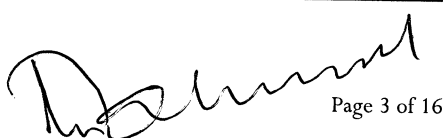
1.6	Two (2) 3-1/8" 5000 PSI W.P. Double Studded Instrument flanges (forged material), with 3/4" & 1/2" NPT taps (plugged), on each instrument flange,(02 No. /X-Mass Tree Assy).				
Material Class 'FF' in Compliance with NACE MR-0175/ISO 15156 Choke Valves fitted with X-Mass Trees Gate Valve Assemblies					
1.7	One (1) Adjustable choke assembly (forged material) angle type 3-1/8" 5000 PSI WP, (R-35) Inlet and Outlet Flanged connections, 2" maximum orifice. Material class 'FF' Hand wheel operated and complete with Choke Spanner, (01 No Spanner/choke assy), (01 No/X-Mass Tree Assy).				
1.8	One (1) positive choke assembly (forged material), angle type 3" NOM with 3-1/8" 5000 PSI WP (R-35) Inlet and Outlet Flanged connections suitable for 2" maximum orifice bean. Material class FF Complete with Choke Bean Wrench, (01 No Bean wrench/choke Assy) ,(01 No/X-Mass Tree Assy).				
1.9	Two (2) 3-1/8" 5000 PSI WP companion flanges (forged material) with 3" Sch 120 Weld Necks,(02 Nos/X-Mass Tree Assy). Material class 'EE'				
1.10	One (1) complete set of studs, nuts and ring gaskets required to assemble the above components,(01 Set/X-Mass Tree Assy).				
Accessories for the Christmas Trees assemblies one each (Sr.No.2 to 15) to be supplied loose in the same box.					
2	1/2" NPT, 5000 psi WP Needle valves (Male x Female), Super Trim, 316 ST/STL.	25	Nos	xxxx	
3	Thermo well (Compatible with 3-1/8", 5K, Double Studded Instrument Flange at Sr # 1.6), 316 ST/STL. Outer threads of Thermowells should be 3/4" whereas the inner threads should be 1/2" NPT threads.	20	Nos	xxxx	
4	Temperature Gauge, 4" Dial , Range 0° F to 350° F, (Compatible with thermo well at Sr # 3), 316 ST/STL.	20	Nos	xxxx	
5	Pressure Gauges 0- 5,000 Psi DIAL SIZE 3-1/2"-4" with 1/2" NPT Thread	20	Nos	xxxx	
6	Set of Beans for Positive Choke 3-1/8" 5000 psi at serial no 1.8 with Hex HD and Tung Carbide Insert 16/64", 20/64", 24/64", 28/64", 32/64", 36/64", 40/64", 44/64", 48/64", 52/64", 56/64", 60/64", 64/64", Orifice.	20	Nos	xxxx	


Page 2 of 16


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7	Set of Beans for Positive Choke 3-1/8" 5000 at serial no 1.8 with Hex HD and Tung Carbide Insert 96/64", 128/64" Orifice	10	Nos	xxxx	
8	Bean Wrench for 3-1/8" 5000 psi Positive choke beans at serial 6 & 7	20	Nos	xxxx	
9	Valve, Back Pressure, 3" Nom. Type 'H', 3-1/32" OD, 4 T.P.I. L.H. Thread 3-1/2" OD Tubing for Tubing Hanger at Serial # 22 & 25	20	Nos	xxxx	
10	Two Way Check valve for Tubing Hanger at serial # 22 and 25	5	Nos	xxxx	
11	Back Pressure Valve Insertion Tool for BPV/Check Valve at Serial # 9 & 10	20	Nos	xxxx	
12	Back Pressure Valve Removal Tool for BPV/Check Valve at Serial # 9 & 10	20	Nos	xxxx	
13	Hydraulic Pump Hand Operated for testing the tree with connecting pressure manifold, API 10,000 PSI W.P.	20	Nos	xxxx	
14	Flange, 2-1/16" 5000 psi WP w/ 2" Fig 1502 Connection Hammer Union	20	Nos	xxxx	
15	Flange, 3-1/8" 5000 psi WP w/ 2" Fig 1502 Connection Hammer Union	20	Nos	xxxx	
16	Tubing Head Spool Assembly, each assembly should be supplied in assembled form having following components (Sr. No. 16.1 to 16.5, please refer to figure # 2)	22	Sets	Lump sum cost of Tubing head spool item 16.1 to 16.5	
16.1	One Tubing Head spool (forged material) with bottom flange size 11" API 5000 PSI WP & top flange size 11" API 5000 PSI WP. The top of the spool to have tie down screws and bottom having necessary seals for 9-5/8" Casing and two 2-1/16" API 5000 PSI WP Studded Outlets having 1-1/2" VR Thread. All required accessories e.g. Stud Nuts, Allen Wrench, Spanner etc. should be supplied with each tubing spool and placed in the box along with the following fitted items. Please refer to figure # 2			xxxxx	
16.2	Two (2) 2-1/16" 5000 psi WP Double Flanged gate valves (forged material), Including Hand wheel, (02 Nos. / THS Assy).				
16.3	Two (2) 2-1/16" 5000 PSI W.P. Double Studded Instrument flanges (forged material), with 3/4" & 1/2" NPT taps (plugged), on each instrument flange, (02 Nos/THS Assy).				
16.4	Two (2) 2-1/16" 5000 psi WP Blind flanges (forged material) with 1/2" Tap (plugged), (02 Nos/THS Assy).				


Page 3 of 16

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16.5	One complete set of studs, nuts and ring gaskets required to assemble the above components,(01 Set / THS Assy).				
Accessories for the THS assemblies to be supplied loose, one each in the same Box with every THS assembly					
17	Sets of studs and nuts each set comprises of 12 Nos studs (each with 02 Nos Nuts), size 1-7/8" Dia x 14-1/2" length ", Zn/Cad/PTFE coated, Material A193 GR B7 (01 set/THS assembly)	22	Sets	xxxx	
18	Gasket, Self Sealing Ring ST/STL R-54	22	Nos	xxxx	
19	11" Nom. Bore Wear Bushing for Tubing Head Spool at Serial # 16.	22	Nos	xxxx	
20	Tool for Installation & Removal of Wear Bushing at Serial # 19 with 3-1/2" IF Threads Box (Bottom & Top). The Tool may also be used for testing the BOP including the provision to test the Blind rams also.	22	Nos	xxxx	
21	1/2" NPT, 5000 psi WP Needle valves (Male x Female), Super Trim, 316 ST/STL.	22	Nos	xxxx	
22	Tubing Hanger 11", 5000 psi W.P. with an extended seal neck having two 1/4" continuous Control Lines Prep. with all necessary fittings for control line installation (Box) (Top & Bottom) with 3-1/2" 10.3 lbs/ft CS Hydril or equivalent premium threads as mentioned in the terms and conditions clause # 6. 3-1/32" Cameron type 'H' BPV Compatible to quoted tubing Hanger. Hanger must be compatible with the quoted THS and Setting must not require any alignment. Please refer to figure # 5	22	Nos	xxxx	
23	Substitute/Xover 3-1/2" X 10.3 PPF Hydril 'CS' threads or 100% equivalent premium threads e.g. Grant Prideco RTS-8, TPS Technitube "TS-8", Hunting TS-HP, Benoit "BTS-8" etc. Pin X Pin L-80 (type 1) Min 2 Feet Length	25	Nos	xxxx	
Accessories for the THS & Christmas tree assemblies to be supplied loose separately					
24	Reducer bushing assembly with lifting hooks 9-5/8" x 7" casing with necessary two seals, in case the spool is to be used on 7" casing as per attached figure # 4	8	Nos	xxxx	

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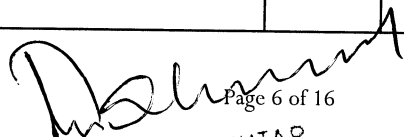
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25	Tubing Hanger 11", 5000 psi W.P. with an extended seal neck having two 1/4" continuous Control Lines Prep. with all necessary fittings for control line installation. (Box) (Top & Bottom) with 3-1/2" 10.3 lbs/ft CS Hydril or equivalent premium threads as mentioned in the terms and conditions clause # 6. 3-1/32" Cameron type 'H' BPV Compatible to quoted tubing Hanger. Hanger must be compatible with the quoted THS and setting must not require any alignment. Please refer to figure # 5	3	Nos	xxxx	
26	3-1/8" 5000 psi WP Double Flanged gate valves(forged material) , including Hand wheels.	10	Nos	xxxx	
27	Lubricator Assembly (forged material) with 16 foot Polished Rod along with C & Friction Wrenches, the lubricator bottom should have a OTIS type code 'G' quick union (5-3/4" - 4 ACME, 4" seal diameter, 3" nominal ID, 10,000 psi W.P.STD/H2S service) compatible with the tree top flange.	10	Nos	xxxx	
28	Adjustable choke assembly, angle type 3-1/8" 5000 PSI WP, (R-35) Inlet and Outlet Flanged connections, 2" maximum orifice. Material class 'FF' Hand wheel operated and complete with Choke Spanner, (01 No Spanner/Choke Valve).	5	Nos	xxxx	
29	Positive choke assembly, 3" NOM angle type 3-1/8" 5000 psi WP (R-35) Inlet and Outlet Flanged connections suitable for "2" maximum orifice bean Material class 'FF' complete with Choke Bean wrench (01 No Bean wrench /Choke Assy).	5	Nos	xxxx	
30	Set of Flow Beans for Positive Choke 3-1/8" 5000 psi at serial 28 with Hex HD and Tung Carbide Insert 16/64", 20/64", 24/64", 28/64", 32/64", 36/64", 40/64", 44/64", 48/64", 52/64", 56/64", 60/64", 64/64", Orifice.	5	Sets	xxxx	
31	Adaptor flange (forged material) , double studded " 11" 5,000 psi X 9" 5,000 psi WP complete with studs/nuts and ring gaskets. Maximum thickness not more than 7".	5	Nos	xxxx	
32	Gasket, Self Sealing Ring ST/STL R-50	5	Nos	xxxx	


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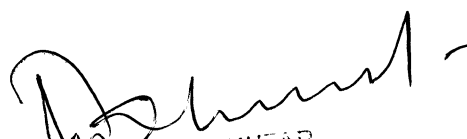

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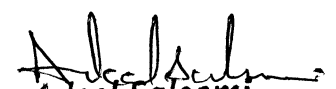
34	Sets of studs and nuts each set comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 7-3/4" length ", Zn/Cad/PTFE coated, Material A193 GR B7	5	Sets	xxxx	
35	Gasket, Self Sealing Ring ST/STL R-35	5	Nos	xxxx	
36	11" API 5000 psi WP bottom x 3-1/8" API 5000 psi WP double studed pack-off flange (forged material), with two 1/4" control lines preparation, pack-off flange must have two exit blocks for the 1/4" control line as per figure-3 . Exit block must have 1/2" NPT connection for control panel, along with all necessary SS fittings for continuous control line installation and connection to control panel (the pack-off flange must be compatible with tubing head	3	Nos	xxxx	
Repair Kits (Complete description/part number of all the items in each repair kit must be provided in the Financial bid).					
37	Repair Kits for Tubing Head Spool e.g. 9-5/8" seals , Retainer Wires/rings, O-rings, seals etc. & any other part essentially required to service the spool	5	Sets.	xxxx	
38	Repair Kits for Reducer bushing assembly e.g. 7" seals, O-rings etc. & any other part essentially required to service the bushing	5	Sets.	xxxx	
39	Repair kits for 2-1/16" 5000 psi Gate valves e.g. Pins, Bearings, Bonnet Seal, Seat Seal, Stem Packing, O-rings, etc. and any other part essentially required to service the valve. However kit may not include major items e.g. gate	5	Sets.	xxxx	
40	Repair kits for 3-1/8" 5000 psi Gate valves e.g. Pins, Bearings, Bonnet Seals, Seat Seals, Stem Packing, O-rings, etc. & any other part essentially required to service the valve. However kit may not include major items e.g. gate	5	Sets.	xxxx	
41	Repair Kit for 3-1/8" 5000 psi Hydraulic actuator e.g. High Pressure Packing, Seals, Bearings, Disks, retainer rings, etc. & any other part essentially required to service the hydraulic actuator	5	Sets.	xxxx	
42	Repair kits for Bonnet flange at e.g. O-rings, seal rings etc. and any other part essentially required to service the bonnet flange	5	Sets.	xxxx	
43	Repair kits for BPV e.g. O-Rings, etc. and any other part essentially required to service the BPV	20	Sets.	xxxx	
44	Repair Kits for X-Mass Tree cap e.g. O-rings, etc. and any other part essentially required to service the Tree Cap	20	Sets.	xxxx	


 Page 6 of 16
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45	Repair Kits for Tubing hanger at e.g. Metallic and soft seals for hanger body and neck, O-rings, ferrule Joint, Locking nuts etc. and any other part essentially required to service the tubing hanger	20	Sets.	xxxx		
46	Repair kits for 3-1/8" 5000 psi Positive choke e.g. Seals/O-Rings, etc. and any other part essentially required to service the positive choke.	10	Sets.	xxxx		
47	Repair Kits for 3-1/8" 5000 psi Adjustable choke e.g. Stem and Seat, Locking pins, union nuts, retainer ring, Back up ring, Bonnet seal, Seat seal, Stem packing, O-rings, etc. and any other part essentially required to service the Adjustable Choke	5	Sets.	xxxx		
48	Repair Kits for Lubricator Assembly e.g. Gland Packing, O-Rings, seals, etc. and any other part essentially required to service the Lubricator Assembly	5	Sets.	xxxx		
49	Repair kit for BOP Test Plug/ Running and retrieving tool for Wear bushing e.g. seals, O-rings etc. and any other part essentially required to service the test plug	30	Sets.	xxxx		
50	TOTAL COST FOR SALE ITEMS (GROUP A)			XXXXXX		
51	ASSOCIATED COMPLETION SERVICES FOR GROUP A	Rates in US \$ (a)	Est. Number of Jobs (b)	Est. Job Duration of each job (c)	TOTAL COST	
52	Service Engineer Per Day Rate	Day Rate	30	05 DAYS	axbxc	The rate will be calculated /Evaluated for a 05 Day Job. Total Number of Jobs/Visits will be 30.
53	Lump sum Mob/Demob charges of Service Engineer	Per Mob/De-Mob	30 Visits	N/A	axb	Evaluation will be carried out for 30 Jobs/Visits.
54	Total Services Cost (Exclusive Provincial Sales Tax)				xxxxxx	
55	20% contingency of the total services cost				xxxx	
56	Total Cost for Associated Services plus 20% contingency line item 54 (Exclusive Provincial Sales Tax)				xxxxxx	


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 Ext: 2807 of 16

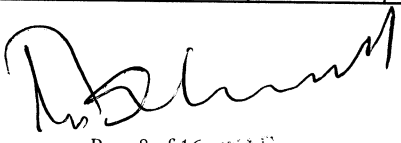

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57	Total Cost for Sale Items + Total cost for associated Services(Group A)	xxxxxxx	Financial Evaluation and Order for Placement will be on Total Sale Items + Total Services Cost for Group A
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GROUP B

X-mass Trees Accessories along with Spares.

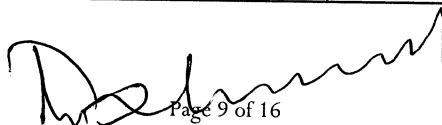
Sr. No	DESCRIPTION	QTY	UOM	Cost in US \$	REMARKS
1	4-1/16" 10000 PSI CHOKE VALVES, All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'FF' in Compliance with NACE MR-0175/ISO 15156.				
1.1	Positive choke assembly 4" NOM angle type 4-1/16" 10,000 PSI WP (BX-155) Inlet and Outlet Flanged connections. Material class 'FF' Complete with Choke Bean wrench (01 No Bean wrench /Choke Assy). Each choke assembly will be provided with 01 no BX-155 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 8-3/8" length, Zn/Cad/PTFE coated, Material A193 GR B7	4	Nos	xxxx	
1.2	Set of Flow Beans for Positive Choke 4-1/16" 10000 psi at serial no 1.1 with Hex HD and Tung Carbide Insert 16/64", 20/64", 24/64", 28/64", 32/64", 36/64", 40/64", 44/64", 48/64", 52/64", 56/64", 60/64", 64/64", Orifice.	4	Sets	xxxx	
1.3	Repair kits for 4-1/16" 10000 psi Positive choke e.g. Seals/O-Rings, etc. and any other part essentially required to service the positive choke.	4	Sets	xxxx	
2	4-1/16" 10000 PSI GATE VALVES and Companion Flanges, All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'EE'				
2.1	4-1/16" 10000 psi WP Double Flanged gate valves(forged material) Material class EE including Hand wheels. Each gate valve will be provided with 01 no BX-155 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 8-3/8" length ", Zn/Cad/PTFE coated, Material A193 GR B7	8	Nos	xxxx	




Page 8 of 16
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2.2	Repair kits for 4-1/16" 10000 psi Gate valves e.g. Pins, Bearings, Bonnet Seals, Seat Seals, Stem Packing, O-rings, etc. & any other part essentially required to service the valve. However kit may not include major items e.g. gate	4	Sets	xxxx	
2.3	4-1/16" 10000 PSI WP companion flanges with 4" Sch 160 Weld Neck. Material Class EE Each companion flange will be provided with 01 no BX-155 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 8-3/8" length ", Zn/Cad/PTFE coated, Material A193 GR B7	4	Nos	xxxx	
3	5-1/8", 5000 PSI ADJUSTABLE CHOKE VALVES. All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'FF' in Compliance with NACE MR-0175/ISO 15156				
3.1	Adjustable choke assembly, angle type 5-1/8" 5000 PSI WP, (R-44) Inlet and Outlet Flanged connections, 2" maximum orifice. Material class 'FF' Hand wheel operated and complete with Choke Spanner, (01 No Spanner/Choke Valve). Each choke assembly will be provided with 01 no R-44 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/2" Dia x 10-3/4" length ", Zn/Cad/PTFE coated, Material A193 GR B7	3	Nos	xxxx	
3.2	Repair Kits for 5-1/8" 5000 psi Adjustable choke, e.g. Seat and Stem, Locking pins, union nuts, retainer ring, Back up ring, Bonnet seal, Seat seal, Stem packing, O-rings, etc. and any other part essentially required to service the Adjustable Choke	6	Sets	xxxx	
4	5-1/8", 5000 PSI POSITIVE CHOKE VALVES. All Material to be forged and must as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'FF' in Compliance with NACE MR-0175/ISO 15156				
4.1	Positive choke assembly, angle type 5-1/8" 5000 PSI WP (R-44) Inlet and Outlet Flanged connections Material class 'FF' Complete with Choke Bean wrench (01 No Bean wrench /Choke Assy). Each choke assembly will be provided with 01 no R-44 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/2" Dia x 10-3/4" length Zn/Cad/PTFE coated, Material A193 GR B7	3	Nos	xxxx	


Page 9 of 16

M. FASIH AKHTAR
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Ext: 2807

4.2	Set of Flow Beans for 5-1/8" 5000 psi Positive Choke at serial no 4.1 with Hex HD and Tung Carbide Insert 32/64", 48/64", 64/64", Orifice. Material class 'FF'	6	Sets	xxxx	
5	5-1/8", 3000 PSI ADJUSTABLE CHOKE VALVES All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'FF' in Compliance with NACE MR-0175/ISO 15156				
5.1	Adjustable choke assembly, angle type 5-1/8" 3000 psi (R-41) Inlet and Outlet Flanged connections, 2" maximum orifice. Material class 'FF' Hand wheel operated and complete with Choke Spanner, (01 No Spanner/Choke Valve). Each choke assembly will be provided with 01 no R-41 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/4" Dia x 11" length ", Zn/Cad/PTFE coated, Material A193 GR B7	4	Nos	xxxx	
5.2	Repair Kits for 5-1/8" 3000 psi Adjustable choke, e.g. Seat and Stem, Locking pins, union nuts, retainer ring, Back up ring, Bonnet seal, Seat seal, Stem packing, O-rings, etc. and any other part essentially required to service the Adjustable Choke	8	Sets	xxxx	
6	5-1/8", 3000 PSI POSITIVE CHOKE VALVES All Material to be forged and must as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'FF' in Compliance with NACE MR-0175/ISO 15156				
6.1	Positive choke assembly, angle type 5-1/8" 3000 psi (R-41) Inlet and Outlet Flanged connections Material class 'FF' Complete with Choke Bean wrench (01 No Bean wrench /Choke Assy). Each choke assembly will be provided with 01 no R-41 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/4" Dia x 11" length ", Zn/Cad/PTFE coated, Material A193 GR B7	4	Nos	xxxx	
6.2	Set of Flow Beans for 5-1/8" 3000 psi Positive Choke at serial no 6.1 with Hex HD and Tung Carbide Insert 32/64", 48/64", 64/64", Orifice. Material class 'FF'	8	Sets	xxxx	
6.3	Repair kits for 5-1/8" 3000 psi Positive choke e.g. Seals/O-Rings, etc. and any other part essentially required to service the positive choke.	8	Sets	xxxx	



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7	3-1/8",5000 PSI HYDRAULIC ACTUATOR SURFACE SAFETY VALVES All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'EE'				
7.1	3-1/8" 5000 psi WP . hydraulically actuated gate valve (forged material) as UMV. Each with hydraulic override (hand wheel to be provided) and fusible hold open device. Material Class EE Each actuator valve will be provided with 01 no R-35 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 7-3/4" length , Zn/Cad/PTFE coated, Material A193 GR B7	7	Nos	xxxx	
7.2	Repair Kit for Hydraulic actuator, e.g. High Pressure Packing, Seals, Bearings, Disks, retainer rings, etc. & any other part essentially required to service the hydraulic actuator	7	Sets	xxxx	
8	3-1/16",10,000 PSI HYDRAULIC ACTUATOR SURFACE SAFETY VALVES All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'EE'				
8.1	3-1/16" 10000 psi WP hydraulically actuated gate valve (forged material) as UMV. Each with hydraulic override (hand wheel to be provided) and fusible hold open device. Material Class EE Each actuator valve will be provided with 01 no BX-154 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1" Dia x 7-1/4" length ", Zn/Cad/PTFE coated. Material A193 GR B7	3	Nos	xxxx	
8.2	Repair Kit for Hydraulic actuator, e.g. High Pressure Packing, Seals, Bearings, Disks, retainer rings, etc. & any other part essentially required to service the hydraulic actuator	3	Sets	xxxx	
9	4-1/16" 5000 PSI HYDRAULIC ACTUATOR SURFACE SAFETY VALVES All Material to be forged and must be as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'EE'				
9.1	4-1/16" 5000 psi WP hydraulically actuated gate valve (forged material) as UMV. Each with hydraulic override (hand wheel to be provided) and fusible hold open device. Material Class EE Each actuator valve will be provided with 01 no R-39 Ring Gasket and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/4" Dia x 8-1/2" length ", Zn/Cad/PTFE coated, Material A193 GR B7	3	Nos	xxxx	
9.2	Repair Kit for 4-1/16" 5000 psi Hydraulic actuator, e.g. High Pressure Packing, Seals, Bearings, Disks, retainer rings, etc. & any other part essentially required to service the hydraulic actuator	3	Sets	xxxx	

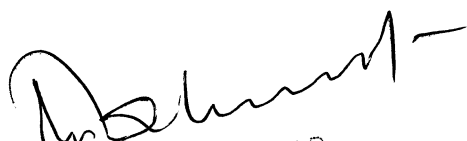
Terms and Conditions:		
All of the clarifications, technical terms and conditions confirmed by the prospective bidders during the course of prequalification will be applicable for this tender. Bidder are only required to submit the financial bids with the following documents and confirmations		Bidder to confirm following in the table
1	<p><u>Evaluation Criteria</u></p> <p>The financial evaluation will be carried out on Group wise as follows</p> <p>i. Group A will be evaluated on total cost of items inclusive services cost</p> <p>ii. Group B will be evaluated separately on total cost of items</p> <p>Bidders are requested to submit their financial quotes for Group A and B separately as per SOR without missing any line item in a group. Failure to quote any line item in a group will result in the rejection of financial bid for that specific group. Bidders are advised to provide acceptance for above mentioned financial evaluation criteria, however it will be bidder's discretion to submit a quote for both the Groups or for any one group.</p>	
2	<p><u>Manufacturing Plant API 6A Certificates</u></p> <p>Bidders are required to submit the current API-6A license of the manufacturing plant(s) and same must be valid at the time of bid submission. In case the license is suspended then documentary evidence from API is must be provided with the bid which clearly mentions the reason of suspension and date of its reactivation, in absence of this document/information the bid will be rejected</p>	
3	<p><u>Sub Vendors API 6A Certificates</u></p> <p>In case the bidder has sub vendors, which must be approved by OGDCL in the prequalification notification dated December 17, 2018, for the supply of any critical items e.g. Surface safety valves, Actuators, Choke valves, BPV etc. then the current API-6A license of such sub vendors manufacturing plant(s) must also be submitted with the bid. All such licenses must be valid at the time of bid submission, in case the license is suspended then documentary evidence from API is must be provided with the bid which clearly mentions the reason of suspension and date of its reactivation, in absence of this document/information the bid will be rejected.</p>	
4	<p><u>Delivery Requirements</u></p> <p>i. The desired delivery period is 06 months C&F Karachi from the day of L/c establishment. Bids received with more than 06 months delivery period may not be considered for evaluation. However due to operational requirement the bidders may requested to arrange urgent partial deliveries of 3-5 sets after L/c establishment.</p> <p>ii. In case of local Manufacturer bidder needs to confirm delivery at OGDCL I-9 Store Islamabad or KBS Karachi</p>	
5	<p><u>Material Specifications</u></p> <p>The bidder is required to quote only AISI 4130 Alloy steel forged material, as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Material Class 'EE' and 'FF' in compliance with NACE MR-0175/ISO 15156 for Group A and B wherever required as per SOR</p>	


6	<p><u>Tubing Hanger Design</u> Bidder is required to clearly specify the minimum, maximum and optimum torques. The length and diameter of the tubing hanger bottom at serial # 22 and serial # 25 should be suitable for the application of 3-1/2" tubing power tong Please refer to the figure # 05.</p>	
7	<p><u>Threading Facility of Tubing Hangers, X-overs and X-Mass Tree Top Flange Threads</u> Bidders must submit the current API 5CT license(s) of the threading facilities which will be threading the Hydril CS or equivalent premium threads of tubing hangers (Sr # 22 & 25) , X-overs (Sr # 23) and tree cap female pickup threads (Sr # 1.5), these licenses must be valid at the time of bid submission. In case these licenses are suspended then documentary evidence from API is must be provided with the bid which clearly mentions the reason of suspension and date of reactivation, in absence of this document/information the bid will be rejected. Besides the copy of the licenses to cut these threads, issued by the patent holder of the threads, must be provided with the financial bid . Please note that only Hydril 'CS' or 100% equivalent premium threads will be acceptable e.g. Grant Prideco RTS-8, TPS Technitube "TS-8", Hunting TS-HP, Benoit "BTS-8" etc. and bidder must specify that which of these threads they will supply.</p>	
8	<p><u>Surface Treatment of Tubing Hangers, X-overs and X-Mass Tree Top Flange Threads</u> Bidder is required to confirm that the threads on the tubing hanger, X-overs and tree cap top flange will undergo proper surface treatment, e.g. phoshpahting etc., in order to prevent thread damage due to galling etc. The treatment be as per material class 'EE' etc. to avoid galling or any other threads problem</p>	
9	<p><u>Group B Equipment</u> For each items in group 'B' the bidders are required to quote its price inclusive of all the related accessories e.g. compatible ring gaskets and stud bolts etc.</p>	
10	<p><u>THE GATE VALVES MUST BE OF FORGED MATERIAL AND ALSO FULFILL THE FOLLOWING REQUIREMENTS</u></p>	
10.i	<p>The gate valves with split gates are not acceptable, only solid gates are acceptable. Bidder to provide a clear cut confirmation in this regard in the technical bid.</p>	
10.ii	<p>Body bushing must be free floating (pressed in body bushings are not acceptable).</p>	
10.iii	<p>Gate must seal metal to metal against the body bushing and body bushing must seal metal to metal against valve body i.e. all seals must be metal to metal.</p>	
10.iv	<p>Stem must be non rising type</p>	
10.v	<p>Valve stem and bonnet must have back seating feature (metal to metal) to allow stem packing change while under pressure.</p>	

[Handwritten Signature]
M. FASIH AKHTAR
GM (PE & PD)
Ext: 2807

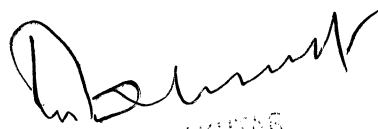
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Adeel Saleemi
JE (PED)
Ext: 2807


10.vii	The stem packing should be non-elastomeric and protected by a graphite jacket against the well bore fluids No Chevron or lip type seals are acceptable.	
10.viii	All the Gate valves should be bi-directional.	
11	Third Party Inspection (TPI)	
11.i	OGDCL will arrange the Third Party Inspection, Bidder is required to confirm that they will provide necessary assistance to Third Party Inspection (TPI) company. Third Party Inspection reports verified by OGDCL will be provided with the shipping documents for L/c encashment, Bidder is required to confirm that they will timely inform the relevant TPI company and provide the necessary assistance during the inspection.	
11.ii	Inspection may require at least 6 to 7 or more visits to the manufacturing plants and may involve 12 to 15 Man days or more. Bidder is required to confirm that they will timely inform the relevant TPI company and provide the necessary assistance during the inspection	
12	Third Party Inspection Criteria	
12.i	OGDCL will arrange Third Party Inspection (TPI) in three stages, the tentative scope of inspection is as follows. TPI company is required to coordinate with concerned OGDCL officials at the following email addresses prior to commencement of inspection 1. Muhammad Kafeel Ahmed (kafeel.ahmed@ogdcl.com) 2. Adeel Saleemi (adeel_saleemi@ogdcl.com)	
Pre Manufacturing/Machining Inspection		
12.ii	Inspection of Forged Raw material and review Material Test Reports prior to commencement of Machining in order to ensure that all material is as per SOR specifications API 6A latest Edition, PSL-3 PR-2, Temperature class 'X', Material class 'EE'	
12.iii	Third Party Inspector to confirm that all Choke valves material is FF in compliance with NACE MR-0175/ISO 15156 as per purchase order	
12.iv	Third Party Inspector to confirm the all the purchase order material must meet temperature class 'X' in the light of Material Test Certificates (MTCs)	
12.v	TPI company will witness the PR2 tests reports of equipment in accordance with API 6A latest Edition where applicable like Gate valves, Choke Valves, Surface safety valves and actuators	
12.vi	Third Party Inspection Company will submit the initial stage inspection reports to OGDCL for acceptance, after acceptance the manufacturing/machining inspection will be commence.	
Inspection during Manufacturing Process:		
12.vii	Third Party Inspector will witness 30 % consignment Hydrostatic test of X-Mass Trees and Tubing Head spools in assembled form as per API 6A standards	


M. FASIH AKHTAR
GM (PE & IS) Page 14 of 16
Ext: 3666


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JE (PED)
Ext: 2807

12.viii	Third Party Inspector will witness and checked 30% consignment connections of tubing hangers, Tree top and Pin x Pin X-overs with manual tighten to confirm the compatibility of Tubing hanger, Tree cap and Pin x Pin X-over threads must be Hydril CS or equivalent premium threads	
Final Inspection:		
12.ix	Third Party Inspector needs to confirm that all finished equipment is brand new and unused and dimensions are as per purchase order	
12.x	Third Party Inspector will monitor the gauging and/or review the critical dimensions on products/components specifying critical tolerances and/or require specific "fits-up" on all the equipment.	
12.xi	Third Party Inspector will witness the quantity check, painting inspection, Identification and marking, boxing/packing of complete consignment as per API standards and as per OGDCL requirement	
12.xii	TPI Company will submit all purchase order items photographs along with the TPI report to OGDCL prior to submission of final inspection report.	
12.xiii	Place the signature /stamp on inspection release note/inspection report electronically in the original pdf files of inspection release note and inspection report.	
12.xiv	Mention OGDCL purchase order number in the first page of final inspection report/inspection release Note	
Other Terms & Conditions		
i	Payment of Service Charges will be made through LC / TT / Cross Cheque upon completion of services and against verified invoices by Indenting Department.	
ii	Clean Acceptance of terms & conditions of Tender Document, Schedule of Requirement is required from Bidder.	
iii	Shipment from ACU Member Countries: In case of Shipment from ACU Member Countries, the LC beneficiary should be of that particular country from where the consignment is being shipped.	
iv	Bidder to submit separate Data Summary Sheet (Annexure-E) for LC beneficiary of Material Providing Entity and Service Providing Entity.	


 RASHID AKHTAR
 GM (PE & PD)
 EXT: 2556


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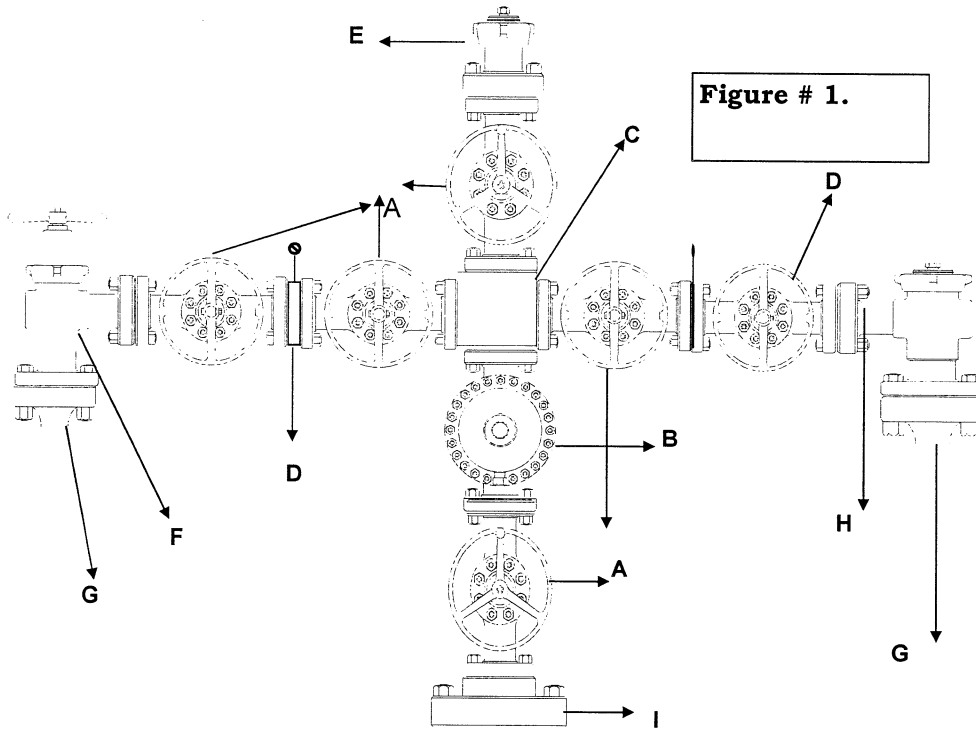
v	<p>Foreign Procurement Payment Terms (Competitive Bidding, Pre-qualification and Proprietary Mode of Procurement): Following payments methods have been approved for Competitive Bidding/Press Tender, Prequalification and Proprietary mode of procurement effective from February 27, 2018.</p> <p>i. Tender value less than or equal to US\$ 200,000: Payment to the Contractor/ bidder in foreign currency shall be made by establishing in favor of the Contractor an irrevocable Letter of Credit (hereinafter called the L/C). 70 % Payment (s) under the L/C will be made for the FOB/ CFR / CPT (as the case may be) price of material of each shipment upon submission of the shipping documents. Balance 30% Payment will be released after receipt, inspection and acceptance of material.</p> <p>ii. Tender value more than US\$ 200,000: Payment to the Contractor/ bidder in foreign currency shall be made by establishing in favor of the Contractor an irrevocable Letter of Credit (hereinafter called the L/C). 80 % Payment (s) under the L/C will be made for the FOB/ CFR / CPT (as the case may be) price of material of each shipment upon submission of the shipping documents. Balance 20% Payment will be released after receipt, inspection (in addition of pre-shipment inspection) and acceptance of material.</p>	
vi	<p>1) The Bidding Procedure is "Single Stage - One Envelope Procedure": All bidders are required to carefully read bidding procedure and terms & conditions elaborated in OGDCL's Tender Document uploaded on Company's website under heading "Master Set of Tender Document OF TENDER DOCUMENT FOR SINGLE STAGE – ONE ENVELOPE" BIDDING PROCEDURE.</p>	

Hasan Ahmad
DR. NASEEM AHMAD
Executive Director (Prod.J.J.V)
Ext: 3765

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JE (PED)
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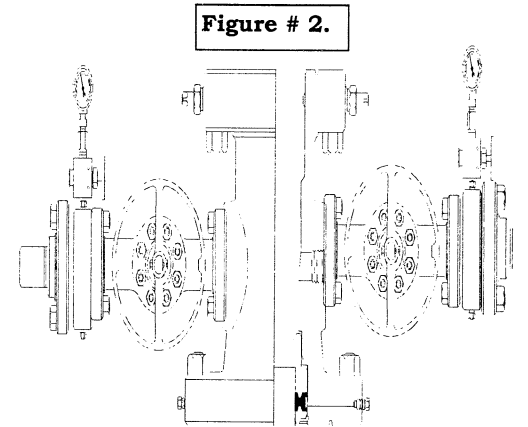
M. Fasih Akhtar
M. FASIH AKHTAR
GM (PE & PD)
Ext: 3556

X-Mass Tree Assembly 3-1/8" 5000 PSI WP, All Material to be as per API 6A, Latest Edition PSL-3, PR-2, Temperature. Class 'X' Material. Class 'EE'



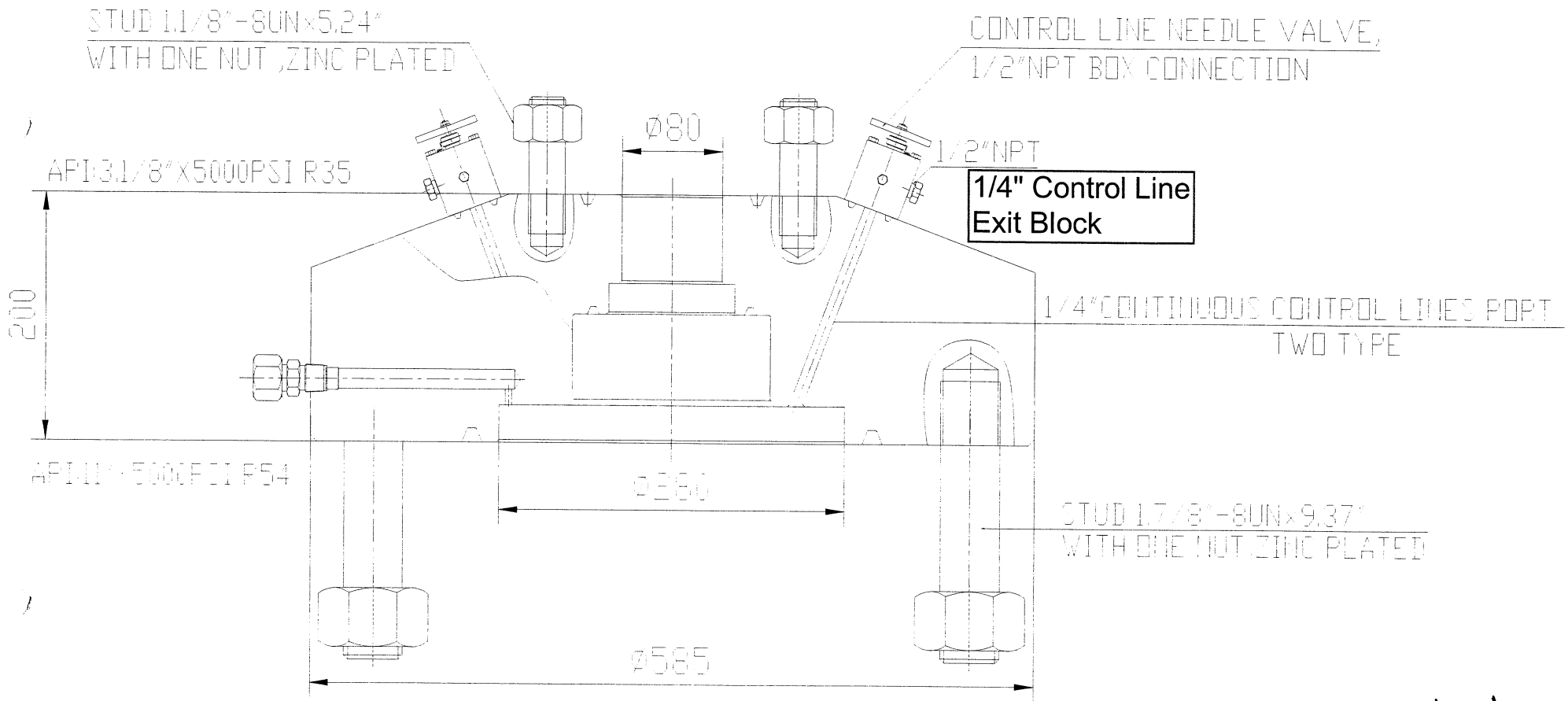
- A: 3-1/8", 5K, Gate Valves.
- B: 3-1/8", 5 K, Hydraulically actuated Gate Valves.
- C: 3-1/8" X 3-1/8" X 3-1/8" X 3-1/8", 5 K, 4 Way Double Studded Cross.
- D: 3-1/8", 5K, Double studded Instrument Flange.
- E: 3-1/8", 5K, X-Mass Tree Top Cap.
- F: 3-1/8", 5K Adjustable Choke assembly (FF)
- G: 3-1/8", 5K Companion Flange.
- H: 3-1/8", 5K Fixed Choke assembly (FF)
- I: 11" X 3-1/8", 5K Pack Off Flange with Two (02) Exit Blocks for 1/4" Control Line

Tubing Head Spool, 11" API 5000 PSI WP Flange Bottom X 11" API 5000 PSI WP Flange Top with Two 2.1/16" API 5000 PSI WP Studded Outlets with 1.1/2" VR Thread, bottom with seals for 9-5/8" Casing. All Material to be as API 6A, Latest Edition PSL-3, PR-2, Temperature Class 'X' Material Class 'EE'



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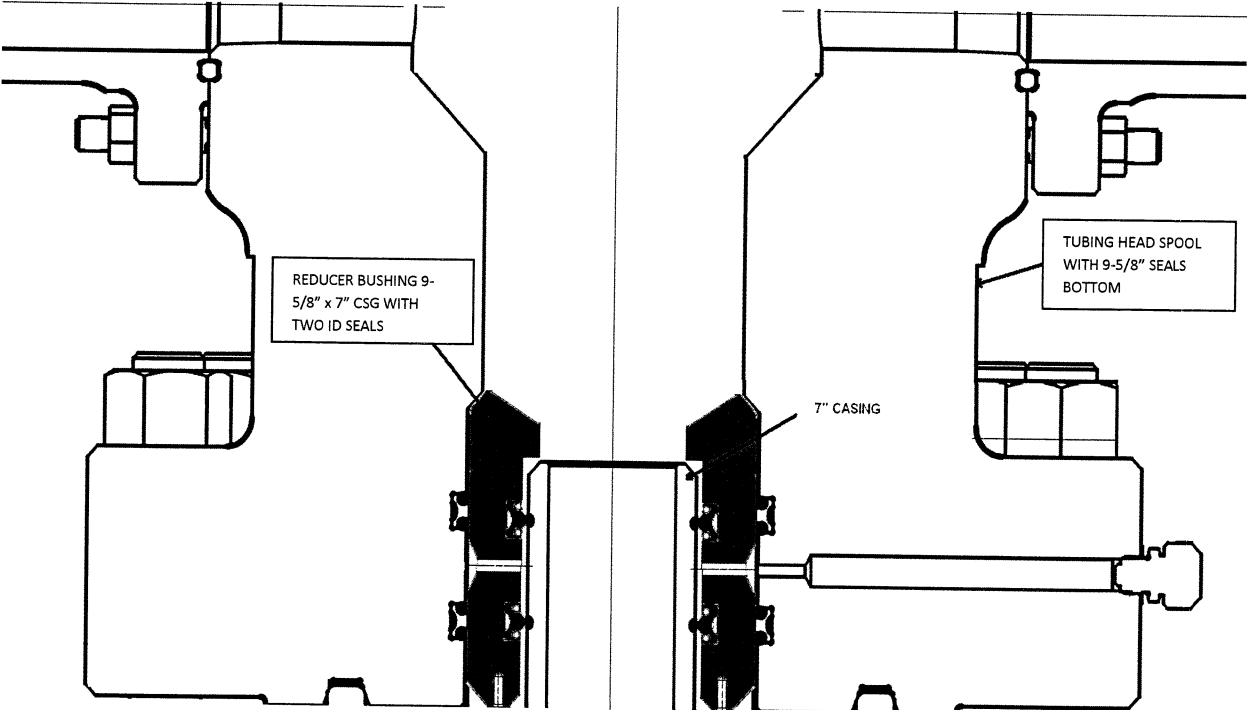
Figure-3
Adapter Flange/Pack Off
Flange
(11" x 3-1/8", 5K)



TUBING HEAD ADAPTER 11" 5000PSI ~ 3 1/8" 5000PSI DOUBLE STUDDED

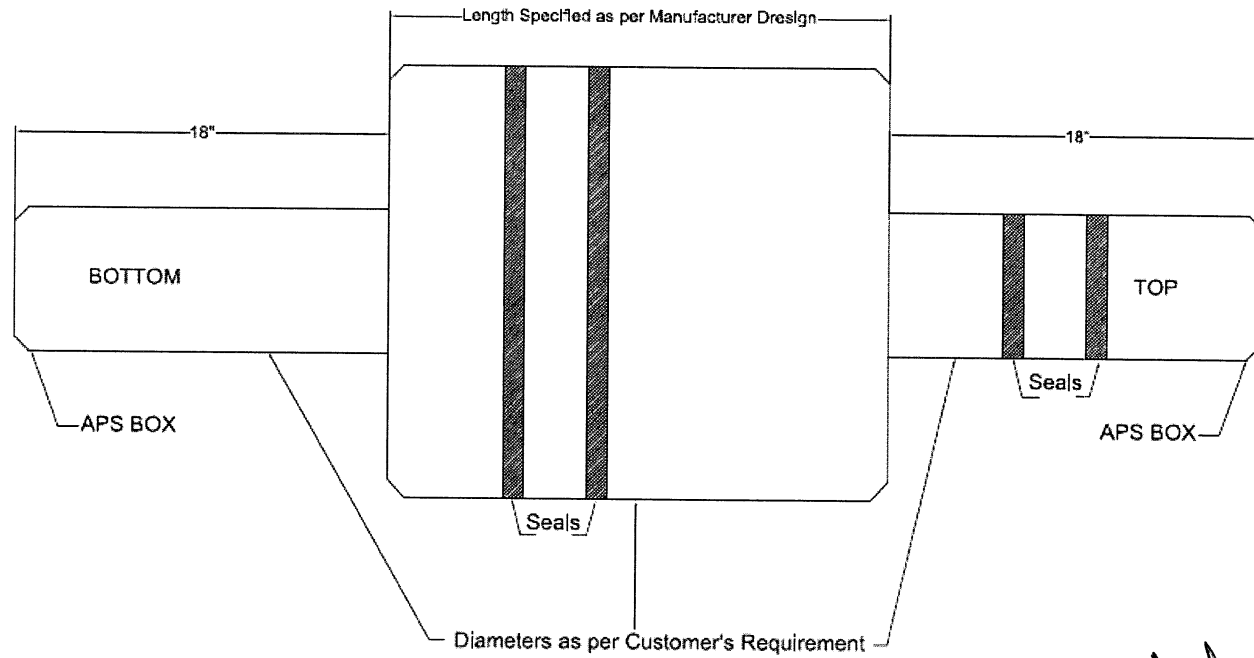
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Figure-4, REDUCER BUSHING



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Figure - 5 TUBING HANGER DESIGN



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