

**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 3-1/16", 15000 PSI X-MASS TREE ALONG WITH ACCESSORIES AND SERVICES  
**Tender Enquiry No** PROC-FB/LCB/PROD/4887-A/2021  
**Due Date**  
**Evaluation Criteria** FULL

**SCHEDULE OF REQUIREMENT**

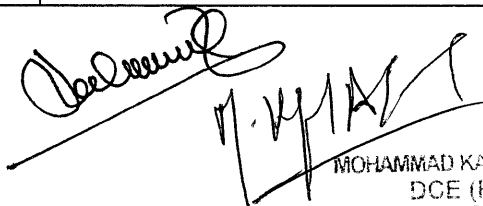
Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	X-Mass Tree Size 3-1/16" 15000 Psi W.P. All Material to be as per API 6A Latest Edition, Material Class "HH-NL", Temperature Class 'X', PSL-3, PR-2 with accessories and Services. For details see attached technical data sheets	Sets	1					

- Note:**
- 1) BID BOND OF US \$ 36,000/- OR EQUIVALENT PAK RUPEES MUST BE SUBMITTED WITH THE TECHNICAL BID WITH VALIDITY OF 150 DAYS BEYOND OPENING DATE.
  - 2) EVALUATION CRITERIA IS FULL CONSIGNMENT WISE ON C & F BY SEA KARACHI.
  - 3) BIDDING PROCEDURE IS SINGLE STAGE SINGLE ENVELOPE. TENDER DOCUMENT OF THE SAME IS AVAILABLE ON OGDCL'S WEBSITE.
  - 4) BID VALIDITY IS 120 DAYS BEYOND OPENING DATE.

**Technical Data Sheets of 3-1/16 inch 15000 Psi X-Mass Tree along with accessories and Services from Prequalification of X-Mass Trees Equipment Bidders /Manufacturers Tender Reference # PROC-FB/CB/PROD-3340/2018 'Category # 02'**


X-mass Trees Assemblies Size 3-1/16" 15000 Psi W.P. All Material to be as per API 6A Latest Edition, Material Class "HH-NL", Temperature Class 'X', PSL-3, PR-2 ,unless specified otherwise.

Sr. No	DESCRIPTION	UOM	QTY	Cost in US \$	REMARKS
1	Christmas Tree/Gate Valve Assembly should supplied in assembled form having following components.(Sr. No. 1.1 to 1.10). (Figure-1)	Sets	1	Lump sum cost of X-Mass Tree item 1.1 to 1.10	
1.1	One Double Studded Adaptor Pack Off Flange 11" API 15000 psi WP bottom x 3-1/16" API 15000 psi WP Top (forged material) Metal to Metal Seal with one 3/8" and one 1/4" control line preparations. Exit blocks must have 9/16" Autoclave connection for control panel The pack-off flange must be compatible with Tubing Head Spool (item # 15) and the Tubing Hanger (item # 20 ). Bidder will provide 02 sets of Autoclave instrument fittings for 3/8" and 1/4" continuous control line installation to control panel Bidder will provide 02 sets of X-overs/adaptors to convert 9-/16" Autoclave connection to NPT connections for installation of 3/8" and 1/4" continuous control line to the control panel		1		
1.2	Six (6) 3-1/16" 15000 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). All valves must have MTM seals for seats and gates		6		
1.3	One (1) 3-1/16" 15000 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		
1.4	One (1) 3-1/16" x 3-1/16" x 3-1/16" x 3-1/16" API 15000 PSI WP studded cross (forged material), (01 No / X-Mass Tree Assy).		1		
1.5	One 3-1/16" 15000 PSI WP X-Mass tree top flange with OTIS type code 'G' quick union (7-1/2" - 4 ACME, 5.50" seal diameter, 3" nominal ID, 15,000 psi W.P. H2S service) with a 9/16" autoclave tap on the top for pressure gauge installation (plugged). Inside of top flange should have 3-1/2" 12.7 lb/ft Vam Top female pickup/lifting Threads (01 No. /X-Mass Tree Assy). The ID should allow running of the 3" type 'H' BPV.		1		
1.6	Two (2) 3-1/16" 15000 PSI W.P. Double Studded Instrument flanges (forged material), with 9/16" Autoclave taps (plugged), on each instrument flange @ 180 degree (02 No. /X-Mass Tree Assy).		2		

  
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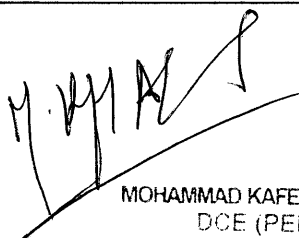
  
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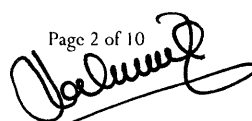
  
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1.7	One (1) Adjustable choke assembly Cage type 3-1/16" 15000 PSI WP, (BX-154) Inlet and Outlet Flanged connections, 2" maximum orifice. Hand wheel operated and complete with Choke Spanner, (01 No/X-Mass Tree Assy). (01 No Spanner/Choke Valve).		1		
1.8	One (1) positive choke assembly (forged material), 3" Nom with 3-1/16" 15000 PSI WP (BX-154) Inlet and Outlet Flanged connections (01 No/X-Mass Tree Assy).		1		
1.9	Two (2) 3-1/16" 15000 PSI WP companion flanges (forged material) with 3" Sch 160 Weld Necks,(02 Nos/X-Mass Tree Assy).		2		
1.10	One (1) complete set of studs, nuts and ring gaskets required to assemble the above components,(01 Set/X-Mass Tree Assy).		1		

**Christmas Tree items to be supplied loose (Sr.No 2 to 14)**

2	Valve needle male x female 9/16" autoclave connection 15000 psi	Nos	8	xxxx	
3	Thermo well ( Compatible with 3-1/16", 15K, Double Studded Instrument Flange at Sr # 1.6) 9/16" Autoclave connections	Nos	2	xxxx	
4	Temperature Gauge, 4" Dial , Range 0° F to 350° F, (Compatible with thermo well at Sr # 3), 9-1/16" Autoclave connections	Nos	3	xxxx	
5	Pressure gauges Dia 4-1/2", face 0-15000 psi, 9/16" Autoclave connection	Nos	8	xxxx	
6	Set of Beans, for 3-1/16" 15K positive choke at serial no 1.8 & 25 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",96/64", 128/64" Orifice.	Sets	2	xxxx	
7	Bean Wrench, 3" Nom Positive Choke.	Nos	3	xxxx	
8	Valve, Back Pressure, 3" Nom. Type 'H' 4 T.P.I. L.H. Thread 3-1/2" OD Tubing, (For Tubing Hanger at serial # 20).	Nos	2	xxxx	
9	Two Way Check valve for Tubing Hanger at serial # 20.	Nos	1	xxxx	
10	Insertion Tool for BPV/Check Valve at serial # 8 & 9	Nos	2	xxxx	
11	Removal Tool for BPV/Check Valve at serial # 8 & 9	Nos	2	xxxx	
12	Hydraulic Pump Hand Operated for testing the tree cavity with connecting pressure manifold, API 15000 PSI W.P.	Nos	2	xxxx	
13	Flange , 2-1/16" 15000 psi WP w/ 2" Fig 2202 Connection Hammer Union complete with nut	Nos	2	xxxx	
14	Flange , 3-1/16" 15000 psi WP w/ 2" Fig 2202 Connection Hammer Union complete with nut	Nos	2	xxxx	

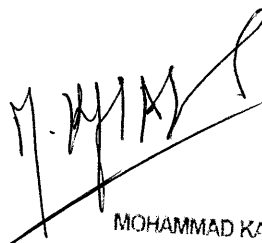
  
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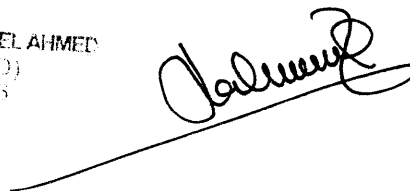
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15	<b>Tubing Head Spool Assembly, each assembly should supplied in assembled form having following components (Sr. No. 15.1 to 15.5). All Material to be as per API 6A Latest Edition, Material Class "HH-NL", Temperature Class 'X', PSL-3, PR-2. (Figure-2)</b>	Sets	2	Lump sum cost of Tubing head spool item 15.1 to 15.5	
15.1	One Tubing Head spool (forged material) with Bottom flange size 11" API 15000 PSI WP & Top flange size 11" API 15,000 PSI WP (BX-158). The top of the spool to have tie down screws and bottom having Metallic seals for 9-5/8" Casing and 2-1/16" API 15000 PSI WP Studded Outlets having 1-1/2" VR Thread. All required accessories e.g. Spanner, Allen Wrench etc. should be supplied with each tubing spool and placed in the box containing that spool along with the following fitted Items:		2	xxxxx	
15.2	Two (2) 2-1/16" 15000 psi WP Flanged end gate valves (forged material), Including Hand wheel, (02 Nos. / THS Assy).		4		
15.3	Two 2-1/16" 15,000 PSI W.P. Double Studded Instrument flanges (forged material) with two 9/16" Autoclave connection taps (plugged) on each instrument flange		4		
15.4	Two 2-1/16" 15,000 psi WP' Blind flanges (forged material) with one 9/16" Autoclave thread port on each blind flange tap (plugged)		4		
15.5	One complete set of studs, nuts and ring gaskets required to assemble the above components,(01 Set / THS Assy).		2		
<b>Tubing Head Spool items to be supplied loose, one each in the same with Tubing Head Spool assembly (Sr.No 16 to 21)</b>					
16	Studs each with 02 Nos Nuts size 2" Dia x 19-1/4" length ", Zn/Cad/PTFE coated	Nos	60	xxxx	
17	Gasket, Self Sealing Ring BX-158 (Inc 825)	Nos	8	xxxx	
18	11" Nom. Bore Wear Bushing for Tubing Head Spool at Serial # 15.	Nos	2	xxxx	
19	Tool for Installation & Removal of Wear Bushing at Serial # 18 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 (BOP test plug)	Nos	2	xxxx	

  
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20	Tubing Hanger Assembly 11", 15,000 psi W.P Nominal x 3-1/2 inch 12.7 ppf Vam Top Threads (Box) Top X Bottom extended neck with Metal to Metal Seal for Tubing head adaptor having two continuous Control Lines Preparations one 3/8" and one 1/4" control line. 3" NOM Type 'H' BPV Compatible to quoted Tubing Hanger. Hanger must be compatible with the quoted THS and Setting must not require any alignment. 8" Bottom Tong Neck. (Figure-3)	Nos	2	xxxx	
	Bidder will provide 04 sets of instrument fittings with tubing hanger for 3/8" and 1/4" continuous control line installation				
21	Reducer bushing assembly with lifting hooks 9-5/8" x 7" casing with seals as per manufacturer design in case the spool is to be used on 7" casing compatible with THS item # 15. (Figure-4)	Nos	2	xxxx	
<b>Additional items to be supplied loose</b>					
22	Double Studded Adaptor Pack Off Flange 11" API 15000 psi WP bottom x 3-1/16" API 15000 psi WP Top (forged material) Metal to Metal Seal with one 3/8" and one 1/4" control line preparations. Exit blocks must have 9/16" Autoclave connection for control panel The pack-off flange must be compatible with Tubing Head Spool (item # 15) and the Tubing Hanger (item # 20 ). (Additional items to be supplied loose)	Nos	1	xxxx	
	Bidder will provide 02 sets of Autoclave instrument fittings for 3/8" and 1/4" continuous control line installation to control panel				
	Bidder will provide 02 sets of X-overs/adaptors to convert 9-/16" Autoclave connection to NPT connections for installation of 3/8" and 1/4" continuous control line to the control panel				
23	Hydraulically actuated gate valve (forged material) 3-1/16" 15000 PSI W.P as UMV. Each with hydraulic override (hand wheel to be provided) and fusible hold open device (Additional item to be supplied loose)	Nos	1	xxxx	
24	X-Mass tree top flange 3-1/16" 15000 PSI WP with OTIS type code 'G' quick union (7-1/2" - 4 ACME, 5.50" seal diameter, 3" nominal ID, 15,000 psi W.P. H2S service) with a 9/16" autoclave tap on the top for pressure gauge installation (plugged). Inside of top flange should have 3-1/2" 12.7 lb/ft Vam Top female pickup/lifting Threads (01 No. /X-Mass Tree Assy). The ID should allow running of the 3" type 'H' BPV.	Nos	1	xxxx	

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25	Studded cross (forged material), 3-1/16" x 3-1/16" x 3-1/16" API 15000 PSI WP (Additional item to be shipped loose)	Nos	1	xxxx	
26	Double Studded Instrument flanges (forged material), 3-1/16" 15000 PSI W.P with 9/16" Autoclave taps (plugged), on each instrument flange @ 180 degree (Additional items to be shipped loose)	Nos	2	xxxx	
27	Companion flanges (forged material) 3-1/16" 15000 PSI WP with 3" Sch 160 Weld Necks, (02 Nos/X-Mass Tree Assy). (Additional items to be shipped loose)	Nos	2	xxxx	
28	Gate valve (forged material) 3-1/16" 15000 psi WP Flanged end, including Hand wheels. Each Gate 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 1-1/8" Dia x 8" length, Zn/Cad/PTFE coated. (Additional items to be shipped loose)	Nos	4	xxxx	
29	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 (7-1/2" - 4 ACME, 5.500" seal diameter, 3" nominal ID, 15000 psi W.P.H2S service) compatible with the tree top flange.	Nos	1	xxxx	
30	Adjustable choke assembly, Cage type 3-1/16" 15000 PSI WP, (BX-154) Inlet and Outlet Flanged connections, 2" maximum orifice. Hand wheel operated and complete with Choke Spanner, (01 No Spanner/Choke Valve). Each Choke valve will be provided with 01 no BX-154 Ring Gasket (Inc 825) and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 8" length, Zn/Cad/PTFE coated. (Additional items to be shipped loose)	Nos	2	xxxx	
31	Fixed/Positive choke assembly, 3" Nom with 3-1/16" 15000 PSI WP (BX-154) Inlet and Outlet Flanged connections. Each Choke valve will be provided with 01 no BX-154 Ring Gasket (Inc 825) and 01 Sets of studs and nuts comprises of 08 Nos studs (each with 02 Nos Nuts), size 1-1/8" Dia x 8" length, Zn/Cad/PTFE coated. (Additional items to be shipped loose)	Nos	2	xxxx	
32	Studs each with 02 Nos Nuts size 1-1/8" Dia x 8" length, Zn/Cad/PTFE coated	Nos	50	xxxx	
33	Gasket, Self Sealing Ring BX-154 (Inc 825)	Nos	20	xxxx	
34	Substitute/Xover 3-1/2" X 12.7 PPF Vam Top threads Pin X Pin Material Compatible to Material Class HH-NL, Minimum Length 2 Feet each	Nos	2	xxxx	

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35	Double Studded Adaptor Flange 11"-15K x 11"-10K, Complete with Studs/Nuts and Ring Gaskets. Each DSAF will be provided with 02 Nos BX-158 Ring Gasket, fitted 16 Nos studs (each with 02 Nos Nuts), size 1-3/4" Dia x 15-3/8" length, fitted 20 Nos Studs (each with 02 Nos Nuts), size 2" Dia x 19-1/4" length Zn/Cad/PTFE coated. Maximum thickness not more than 7".	Nos	2	xxxx	
<b>Repair Kits for above mentioned equipment (Complete description/part number of all the items in each repair kit must be provided in the Financial bid).</b>					
36	Repair kit for Tubing Head Spool 9-5/8" Metallic seal	Sets	2	xxxx	
37	Repair Kits for Reducer bushing Complete with all Elastomeric /Metallic Parts assembly essentially required to service the bushing	Sets	2	xxxx	
38	Repair kits for 2-1/16" 15K Gate valves e.g. Pins, Nuts, Screw set, Thrust Bearings, Bonnet Seal, Seat Seal, Stem Packing, O-rings, Bleeder plug, Metallic seals, Packing, Fittings, Springs etc and any other part essentially required to service the valve. However kit may not include major items e.g. gate.	Sets	2	xxxx	
39	Repair kits for 3-1/16" 15K Gate valves e.g. Pins, Nuts, Screw set, Thrust Bearings, Bonnet Seal, Seat Seal, Stem Packing, O-rings, Bleeder plug, Metallic seals, Packing, Fittings, Springs etc and any other part essentially required to service the valve. However kit may not include major items e.g. gate.	Sets	4	xxxx	
40	Repair kits for Hydraulic actuator e.g. High Pressure Packing, Seals, Bearings, Disks, Retainer rings etc and any other part essentially required to service the hydraulic actuator.	Sets	2	xxxx	
41	Repair kits for Packoff Flange e.g. Seals, Packings, Rings, Fittings etc and any other part essentially required to service the pack off flange	Sets	2	xxxx	
42	Repair kits for BPV e.g. O-Rings, Seal rings etc and any other part essentially required to service the BPV	Sets	5	xxxx	
43	Repair kits for Two way check valve e.g. O-Rings, Seal rings etc and any other part essentially required to service the Two way check valve	Sets	2	xxxx	
44	Repair kits for X-Mass Tree cap e.g. O-rings, Backup rings and any other part essentially required to service the Tree Cap	Sets	6	xxxx	
45	Repair kits for Tubing hanger e.g. Metallic and soft seals for hanger body and neck, instrument fittings etc and any other part essentially required to service the tubing hanger	Sets	4	xxxx	

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46	Repair kits for Positive choke e.g. Seals, retainer rings, stem packing etc essentially required to service the Positive choke	Sets	4	xxxx			
47	Repair kits for Adjustable choke e.g. Seals, backup rings, retainer rings, stem packing grease fittings etc essentially required to service the adjustable choke	Sets	2	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.	Sets	4	xxxx			
49	Repair kit for 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	Sets	10	xxxx			
50	<b>TOTAL COST FOR SALE ITEMS</b>			XXXXX			
51	<b>ASSOCIATED COMPLETION SERVICES</b>	<b>Rates in US \$ (a)</b>	<b>Est. Number of Jobs (b)</b>	<b>Est. Job Duration of each job (c)</b>	<b>TOTAL COST</b>	<b>Remarks</b>	
52	Per Day Rate of Service Engineer	Per Day Rate	3	07 DAYS	axbxc	The rate will be calculated /Evaluated for a 07 Days Job. Total Number of Jobs/Visits will be 3 nos .	
53	Lump sum Mob/Demob charges of Service Engineer	Per Mob/De-Mob	3 Visits	N/A	axb	Evaluation will be carried out for 3 Jobs/Visits.	
54	Per Day Operating Lubricator Assembly rental charges along with Adaptor/X-over	Operating per day rate	3	3	axbxc	The rate will be calculated /Evaluated for a 03 Day operating charges. Total Number of Jobs/Visits will be 3 nos.	
55	Per Day Standby Lubricator Assembly rental charges along with Adaptor/X-over	Standby per day rate	3	5	axbxc	The rate will be calculated /Evaluated for a 05 Days standby charges. Total Number of Jobs/Visits will be 3 nos.	
56	Lump sum Mob/Demob charges of Lubricator assembly along with Adaptor/X-over	Per Mob/De-Mob	3	N/A	axb	Evaluation will be carried out for 3 nos Jobs.	
57	Total Cost for Associated Services Cost (Exclusive Provincial Sales Tax)	XXXXXXXX					

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58	<b>Total Cost for Sale Items + Total cost for associated Services.</b>	XXXXXXXXXX	<b>Financial Evaluation and Order Placement will be on Total Sale Items + Total Services Cost</b>
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<b>Terms and Conditions:</b> All of the clarifications, technical terms and conditions confirmed by the prospective bidders during the course of prequalification Tender Reference # PROC-FB/CB/PROD-3340/2018 'Category # 02' dated December 17, 2018 will be applicable for this tender. Bidder are only required to submit the following documents and confirmations		Bidder to confirm following in the table
1	Bidder are required to submit combined technical & financial bids in a single envelope.	
2	<b>Financial Evaluation Criteria</b>	
2.i	The financial evaluation will be carried out on complete package, bidder to provide acceptance	
2.ii	The bidders are advised to quote all the line items and in case of any issue the bidders should clarify during Pre Bid Submissions Clarifications and ensure the Quote of each and every line item.	
3	<b>Manufacturing Plant API 6A Certificates</b> 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.	
4	<b>Sub Vendors API 6A Certificates</b> 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.	
5	<b>Delivery Requirement</b> The desired Delivery is 7-8 Months with Maximum Delivery period as 8 Months from the day of LC establishment. In case the bidder quotes more than 8 Months than their Bid will be evaluated as per Tender Clause 23(F).	
6	<b>Material Specifications</b> The bidder is required to quote only Material Class HH-NL forged material, as per API 6A Latest Edition, PSL-3, PR-2, Temperature Class 'X' Pack off Flange, Gate valves and Tubing Hangers must have metal to metal seals.	
7	<b>Tubing Hanger Design</b> Bidder is required to clearly specify the minimum, maximum and optimum torques. The length and diameter of the tubing hanger bottom should be suitable for the application of 3-1/2" 12.7 ppf Vam Top threads tubing power tong. The metal to metal sealing is required for Tubing hanger no elastomer seals will be acceptable. Only MTM seals along with their design and function must be accompanied with bid. 8" Bottom Tong Neck	

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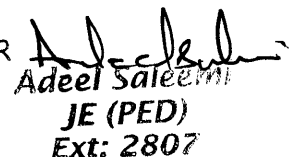
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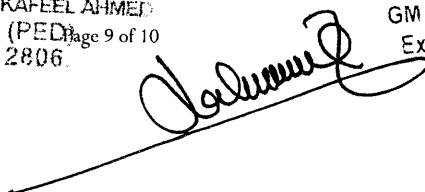
8	<b><u>Threading Facility of Tubing Hangers, X-overs and X-Mass Tree Top Flange Threads</u></b> Bidders needs to submit their threading facility valid API 5CT license from where the Vam Top threads of tubing hangers (Sr # 20) , X-overs ( Sr # 34) and tree cap female pickup threads (Sr # 1.5 & 24) will be certified. Copies of the relevant licenses of threader to cut the Vam Top threads must be provided with the financial bid . Please note that only Vam Top threads will be acceptable	
9	<b><u>Surface Treatment of Tubing Hangers, X-overs and X-Mass Tree Top Flange Threads</u></b> Bidder is required to confirm that they will conduct the proper surface treatment on the tubing hangers, X-overs and tree cap top flanges threads wherever applicable as per material class 'HH-NL' to avoid galling or any other threads connection problem.	
10	<b><u>THE GATE VALVES MUST BE OF FORGED MATERIAL AND ALSO FULFILL FOLLOWING REQUIREMENTS</u></b>	
10.i	Valve design validation and certification shall be in accordance with API 6A ANNEX F as required for PR2. The Non-metallic seals must have the PR2 immersion test and PR2 fixture test, the certificates from international institution need to be provided.	
10.ii	All the Valves should be PR2 certified	
10.iii	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.	
10.iv	Body bushing must be free floating ( <b>pressed in body bushings are not acceptable</b> ).	
10.v	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.	
10.vi	Stem must be non rising type	
10.vii	Valve stem and bonnet must have back seating feature (metal to metal) to allow stem packing change while under pressure.	
10.viii	Sealant injection ports on the valve body are not acceptable.	
10.ix	The stem packing should be non-elastomeric and protected by a Teflon jacket against the well bore fluids No Chevron or lip type seals are acceptable.	
10.x	All the Gate valves should be bi-directional.	
11	<b><u>THIRD PARTY INSPECTION (TPI)</u></b> OGDCL will arrange Third Party Inspection (TPI) in two 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)	
11.i	<b><u>Initial Stage Inspection:</u></b> Inspection of Forged Raw material and Material Test Certificates prior to commencement of Machining to confirm that all material meet API 6A latest edition PSL-3, PR-2, Temperature class X, Material class HH-NL as per purchase order specifications.	
11.ii	<b><u>Final Inspection:</u></b> Upon completion of the Manufacturing /Machining and prior to shipment Third Party inspection for witnessing hydro testing /Drift Testing and other recommended tests as per API 6A latest edition material class HH-NL. Third Party Inspector to confirm that all the equipment is brand new and unused	



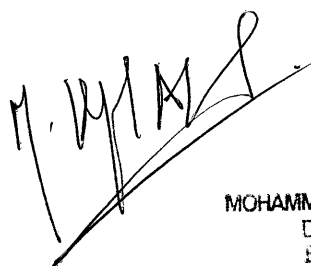
MOHAMMAD KAHEEL AHMED  
DCE (PED)  
Ext: 2806

  
M FASIH AKHTAR  
GM (PE & FD)  
Ext: 3566

  
Adeel Saleemi  
JE (PED)  
Ext: 2807



11.iii	<b>Submission of Final Inspection report:</b> Place the signature /stamp on inspection release note/inspection report electronically in the original pdf files of inspection release note and inspection report. Mention OGDCL purchase order number in the first page of final inspection report/Inspection Release Note	
<b>Other Terms &amp; Conditions</b>		
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.	
v.	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. <b>i. Tender value less than or equal to US\$ 200,000:</b> 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. <b>ii. Tender value more than US\$ 200,000:</b> 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.	
vi.	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.	



MOHAMMAD KAFEEL AHMET  
DCE (PED)  
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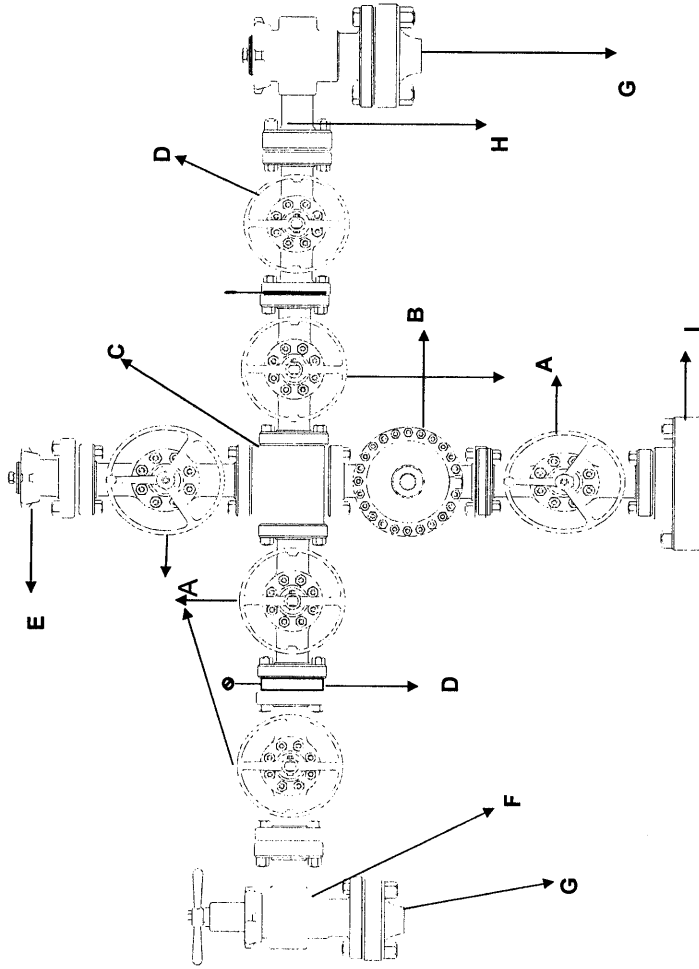
M. FASIH AKHTAR  
GM (PE & FD)  
Ext: 3566



Adeel Saleemi  
JE (PED)  
Ext: 2807

Tubing Head & X-Mass Tree Assembly 3-1/16" 15000 PSI WP, All Material to be as per API 6A, Latest Edition PSL-3, PR-2, Temperature. Class 'X' Material Class 'HH-NL'

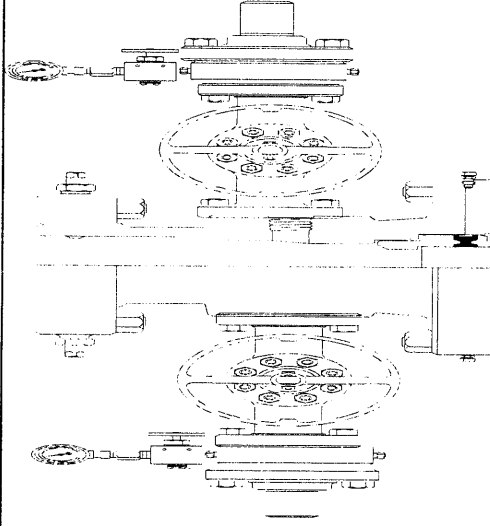
**Figure :1.**



- A: 3-1/16", 15K, Gate Valves.
- B: 3-1/16", 15K, Hydraulically actuated Gate Valves.
- C: 3-1/16" X 3-1/16" X 3-1/16" 15K, 4 Way Double Studted Cross.
- D: 3-1/16", 15K, Double studded Instrument Flange.
- E: 3-1/16", 15K, X-Mass Tree Top Cap.
- F: 3-1/16", 15K Adjustable Choke assembly.
- G: 3-1/16", 15K Companion Flange.
- H: 3-1/16", 15K Fixed Choke assembly.
- I: 1 1/2" x 3-1/16", 15K Pack Off Flange with Two (02) needle valve Exit Blocks one for 3/8" and one for 1/4" Control Line

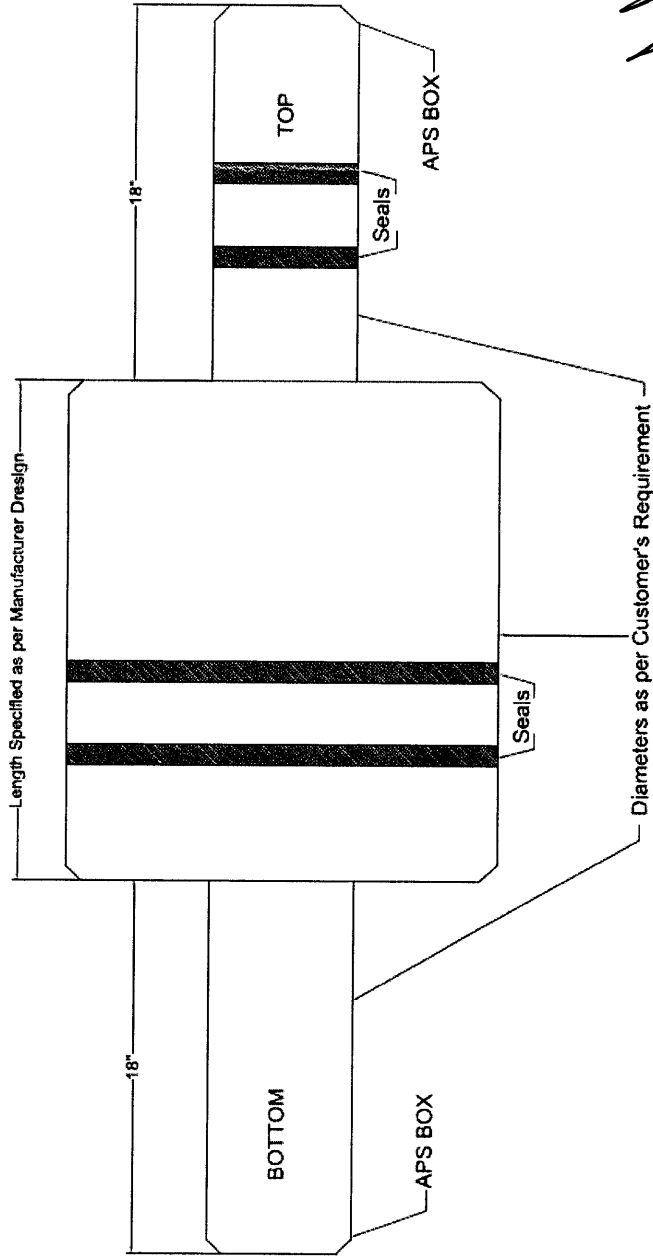
Spool, Tubing Head 11" API 15000 PSI WP Flange  
 Bottom X 11" API 15000 PSI WP Flange Top with  
 Two 2-1/16" API 15000 PSI WP Studded Outlets with  
 1-1/2" VR Thread, bottom having seals for 9-5/8"  
 Casing. All Material to be as per API 6A, Latest  
 Edition PSL-3, PR-2, Temperature. Class 'X'  
 Material Class 'HH-NL'.

**Figure:2.**



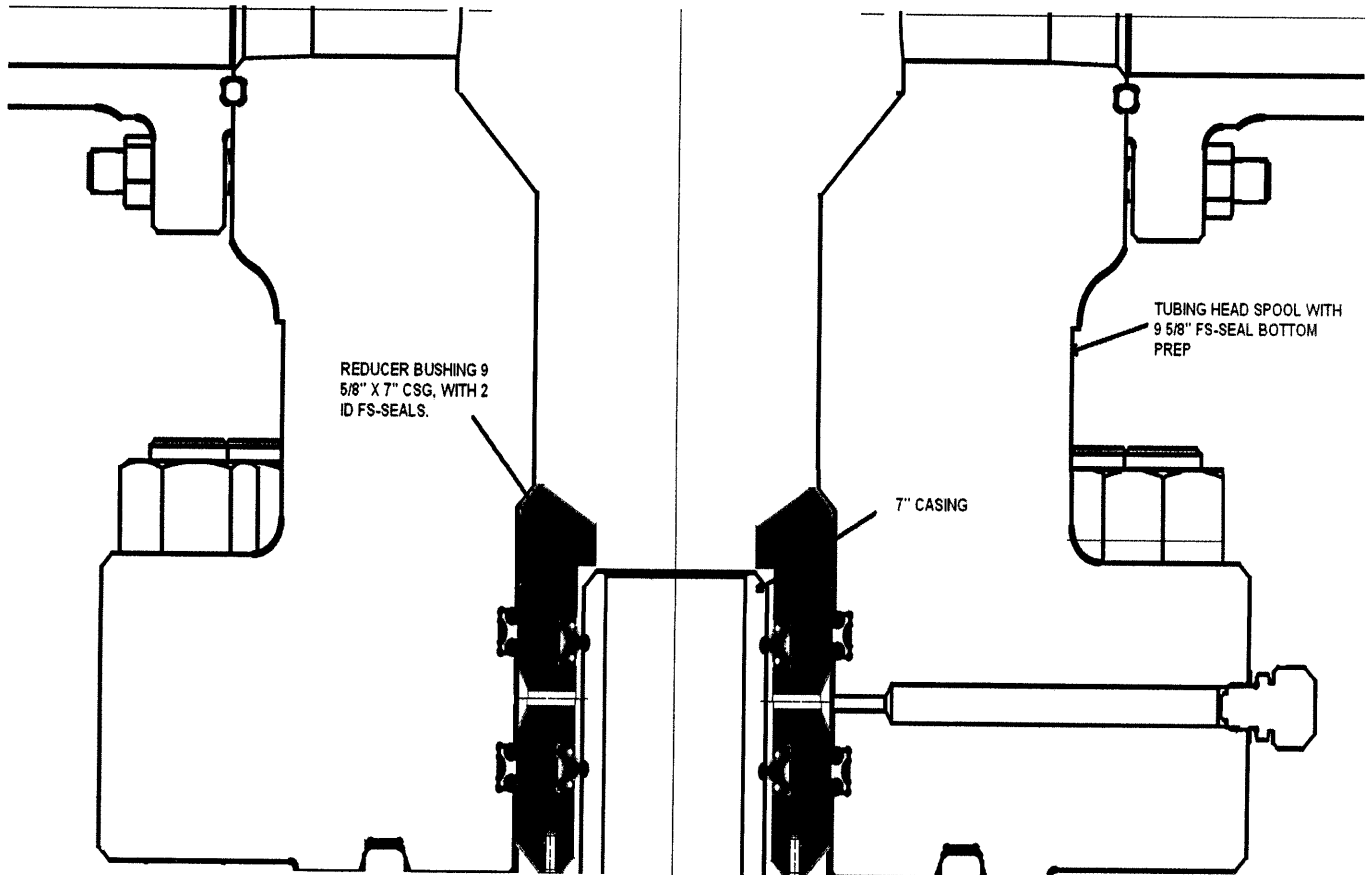
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**Figure -3 TUBING HANGER DESIGN**



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**FIGURE # 04**  
**REDUCER BUSHING**



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**Ext: 2807**