

**WELL HEAD ASSY. 21 1/4x13 5/8X11X7 1/16 X3 1/2 X5000
PSI ACC. TO API 6 A**

- 1 Quotation shall be strictly in accordance with our technical specification.
- 2 Under the condition specified in API spec Q all material , pressure rating , manufacturing, testing , marking , storage and shipping to be in accordance with API spec 6A
- 3 All equipment shall be marked with API monogram as described in API spec 6A and spec 7
- 4 Bidder must describe his quality control and assurance procedures which be in accordance with API Q1, and ISO
- 5 Bidder must give full details and information concerning his hangers as casing weight required to energizing seal maximum hanger's capacity and test Pressure.....etc.
- 6 The offer must be enclosed with relevant catalogues shows well head installation , test procedure and energizing for all seals
- 7 Bidder must provide valid relevant API certificates and all other quality certificates held by bidder.
- 8 After awarding supplier shall provide all certificates of testing and inspection of well head. and must be enclosed with shipment.
- 9 The offer should be enclosed with drawing which clearly show the heights and bores of all equipment.
- 10 All control liens preparation must be blanked off with blind plugs
- 11 It is not acceptable to offer as SPC specifications without giving full details of how the bidder proposes to adhere to the specification.
- 12 Manufacture and country of origin must be mentioned
- 13 Bidder must declare the material of each item and trim code for valves .
- 14 All items standard paint external coating and standard anti-corrosion treatment internal coating.
- 15 Marking on equipment should be appear clearly and not be covered by paint.
- 16 After purchase order award supplier should provide installation test procedures and energizing procedure catalogs.
- 17 certificate issued by a neutral international inspection company stating that the materials are conforming with specifications specified in T/B
- 18 secondary seals for all groups and all sections spools must be seperated out of the spool (not inside of the upper spool)

19 every section should be completely assembled with all their parts in one wooden box
20

Items(1-10) should be : AA, PSL1, PR1, U

Items(11-23)should be : AA, PSL1, PR1, U

Items(24-35)should be : DD, PSL2, PR1, U

Items(36-64)should be : FF ,PSL2,PR2, U

21 Types (models) for main items like (casing head , casing hanger , casing
spool , tubing spool , tubing hanger , valves , Etc) should be declared

2. All spools should be equipped with bit pilot to protect casing or the
secondary seal from damage

23 Bidder must provide a detailed listing of the materials of construction of each
and every parts of every item offered

24 The Material should be a new not renew

5 the certificate of origin with shipment

26 the customs declaration with shipment

Item	Qty	description
		Section 1 AA,,PSL1,PR1, U
1	10	Casing head 21 1/4" x2000psi w.p flanged top type R-73x 20" SLIP - ON Welded Bottom with tow 2" L.p threaded side outlets.
2	10	Slip and seal casing hanger manual 21 1/4"x13 3/8".
3	10	Secondary seal casing 21 1/4"x13 3/8"
4	10	Bull plug 2" L.p x1/2"NPT tapped end.2000 psi w.p
5	10	Nipple 2" L.p x 6"approx.long.2000 psi w.p
6	10	Gate valve 2 1/16"X2000 psi w.p L.p screwed ends ,full bore through conduit non rising stem metal to metal seal between gate and seat and between seats and body. hand wheel operated.
7	10	Needle valve with angle 1/2"NPT male x female 2000 psi w.p.
8	10	Pressure gauge(0- 3000) w.p 1/2"NPT male 4 1/2" O.D face ST/STLcase.
9	10	Ring gasket API R-73 cadmium plated.
10	10	Set of 24 studs with tow nuts 1 5/8"x11.75"ASTM A193 G-B7 studs and ASTM A194 G-2H nuts cadmium or zinc plated.

		Section 2 AA,,PSL1,PR1, U
11	10	Casing spool 21 1/4"X2000 psi w.p flanged bottom R-73 x13 5/8"X3000' psi w.p Flanged top RX-57 with two 21/16"API 3000 psi w.p studded side outlets
12	10	Slip and seal casing hanger manual 13 5/8"x 9 5/8"3000 psi w.p
13	10	Secondary seal 13 5/8"x 9 5/8"3000 psi w.p
14	20	Gate valve 2 1/16"X3000 psi w.p flanged ends type RX 23 ,full bore through conduit non rising stem metal to metal seal between gate and seat and between seats and body. hand wheel operated.
15	20	2 1/16" companion flange x2"L.p 3000 psi w.p
16	10	Bull plug 2"L.Pxblind 3000 psi w.p.
17	10	Bull plug 2" L.P X 1/2" N.P.T female 3000 psi w.p
18	10	Needle valve with angle 1/2"N .P.T male x female 3000 psi w.p
19	10	Pressure gauge (0 - 5000) psi 1/2" NPT male 4 1/2" O.D ST/STL case
20	40	Ring gasket RX-24 cadmium plated
21	10	Ring gasket RX-57 cadmium plated
22	20	Set of 8 studs with two nuts 7/8'X6" ASTM A193 G-B7M studs and ASTM A 194 G 2H M nuts cadmium or zinc plated.
23	10	Set of 20 studs with two nuts 1 3/8"X 10.25" ASTM A 193 , G -B7M Studs and ASTM A194,G-2HM nuts cadmium or zinc plated

Section 3 DD,,PSL2,PR1, U

24	0	Casing spool 13 5/8"x 3000 psi w.p type RX-57 bottom flanged x11" X5000 psi W.P type RX-54 flanged top with two 2 1/16" X5000 psi W.P studded side outlets
25	10	Slip and seal casing hanger 11"x7"complete with secondary seal
2	40	Gate valve 2 1/16" x5000 psi w.p flanged ends type RX -24 full bore Through conduit non rising stem . metal to metal seal between gate And seat and between seats and body hand wheel operated .
27	20	Companion flange 2 1/16" x 5000 psi W.P type RX-24 x2"LP
28	10	Bull plug 2" L.Px 1/2"NPT female .5000 psi w.p
29	10	Bull plug 2" L.P x blind 5000 psi w.p
30	10	Needle valve with angle 1/2" NPT male x Female5000 psi W.P
31	10	Pressure gauge (0 - 5000) psiW.P x 1/2" NPT male 4 1/2" O.D ST/ STL case.
32	60	Ring gasket RX-24 cadmium plated
33	10	Ring gasket RX-54 cadmium plated
34	40	Set of 8 studs with two nuts 7/8"x6" ASTM A 193, G -B7M studs And ASTM A194,G-2HM nuts cadmium or zinc plated
35	10	Set of 12 studs with two nuts 1 7/8'x 13.75" ASTM A 193 , B G -7M studs And ASTM A194,G-2HM nuts cadmium or zinc plated

Section 4 FF ,PSL2,PR2, U

36	10	Tubing spool 11"x 5000 psi w.p type RX-54 bottom flanged x7 1/16"X 5000 psi W.P type RX-46 flanged top with two 2 1/16" 5000 psi W.P studded side outlets
37	40	Gate valve 2 1/16" x5000 psi w.p flanged ends type RX -24 full bore through conduit non rising stem . metal to metal seal between gate and seat and between seats and body hand wheel operated .
38	20	Companion flange 2 1/16" x 5000 psi W.P type RX-24 x2"LP
39	10	Bull plug 2" L.Px 1/2"NPT female .5000 psi w.p
40	10	Bull plug 2" L.P x blind 5000 psi w.p
41	10	Needle valve with angle 1/2" NPT male x Female5000 psi W.P
42	10	Pressure gauge (0 - 5000) psiW.P x 1/2" NPT male 4 1/2" O.D ST/ STL case.
43	60	Ring gasket RX-24 cadmium plated
44	10	Ring gasket RX-46 cadmium plated
45	40	Set of 8 studs with two nuts 7/8"x6" ASTM A 193. G -B7M studs and ASTM A194,G-2HM nuts cadmium or zinc plated
46	10	Set of 12 studs with two nuts 1 3/8'x 10.75" ASTM A 193 , B G -7M studs and ASTM A194,G-2HM nuts cadmium or zinc plated

- 47 10 Tubing hanger with extended neck 7 1/16" x 5000 psi W.P 3 1/2"EUE lift and suspension x 3"BPV thread with one port for 1/4" hydraulic control line ,thread to be treated with anti-galling.
- 48 10 Tubing head adapter 7 1/16" x 5000 psi W.P flanged bottom x 3 1/8" x 5000 psi w.p flanged top prepared to above extended neck tubing hanger. and with down hole control line. insid thread top&down 3 1/2" EUE
- 49 30 Gate valve 3 1/8" X 5000 psi w.p flanged end type RX-35 full bore Through Conduit, non rising stem metal to metal seal between gate and Seat and between seats and body .hand wheel operated
- 50 50 Ring gasketRX-35 cadmium plated
- 51 20 Set of 8 studs with two nuts 1 1/8x7.25 ASTM A 193 , G -B7M studs and ASTM A194,G-2HM nuts cadmium or zinc plated.
- 52 10 Studded cross 3 1/8" x 5000 psi w.p run x 2 1/16" x 5000 psi w.p outlets insid thread top 3 1/2" EUE for install Stuffin box (76mm ID).
- 53 10 Top cap flanged bottom 3 1/8" x 5000 psi w.p complete with hammer nut and plug thread 1/2" NPT female , inside thread 3 1/2" EUE lift thread .
- 54 10 Needle valve with angle 1/2" NPT male x 1/2" NPT female 5000 psi w.p
- 55 10 Pressure gauge (0 - 5000) psi w.p1/2" NPT male 4 1/2" O.D face ST/STL case .
- 56 40 Gate valve 2 1/16" x 5000 psi w.p flanged ends type RX-24 full bore through conduit , non rising stem.metal to metal seal between gate and seat and between seats and body hand wheel operated .
- 57 70 Ring gasket RX-24 cadmium plated .
- 58 20 2 1/16" x 5000 psi w.p companion flange x2" L.P
- 59 10 Adjustable chock 2 1/16" x 5000 psi w.p flanged inlet x outlet with SSTC stem and seat assy . hand wheel operated .
- 60 10 Bull plug 2" L.P tapped 1/2" NPT
- 61 10 Needle valve with angle 1/2" NPT male x 1/2" NPT female 5000 psi w.p
- 62 10 Pressure gauge (0 - 5000) psi w.p1/2" NPT male 4 1/2" O.D face ST/STL case .
- 63 40 Set of 8 studs with two nuts 7/8"x6" ASTM A193 ,G-B 7 M studs and ASTM A 194 G-2HM nuts cadmium or zinc plated.
- 64 secondary seals must be seperated ,not inside the section

Accessories and S/P as follow

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| 1 | 4 | Tubing hanger with extended neck 7 1/16" x 5000 psi W.P 3 1/2"EUE left and suspension x 3"BPV thread with one port for 1/4" hydraulic control line ,thread to be treated with anti-galling. (FF ,PSL2,PR2, U) |
| 2 | 20 | Seal assy upper and lower for tubing hanger. (FF ,PSL2,PR2, U) |
| 3 | 2 | secondary seal for casing hanger 21 1/4 x 13 3/8 |
| 4 | 3 | secondary seal for casing shanger 13 3/8 x 9 5/8 |
| 5 | 3 | secondary seal for tubing shanger 11 x 7 |
| 6 | 5 | Adjustable chock 2 1/16" x 5000 psi w.p flanged inlet x outlet with SSTC stem and seat assy . hand wheel operated . |
| 7 | 5 | Set of 12 studs with two nuts 1 3/8"x 10.75" ASTM A 193 , B G -7M studs and ASTM A194,G-2HM nuts cadmium or zinc plated |
| 8 | 5 | Set of 12 studs with two nuts 1 7/8"x 13.75" ASTM A 193 , B G -7M studs And ASTM A194,G-2HM nuts cadmium or zinc plated |