




**PREQUALIFICATION OF MANUFACTURERS FOR ALL SIZES WELLHEAD ASSEMBLIES
ALONG WITH ACCESSORIES & ENGINEERING SERVICES FOR A PERIOD OF THREE
YEARS ON AS AND WHEN REQUIRED BASIS AGAINST CALL-OUT PURCHASE ORDERS**

The Basic concept is to prequalify World renowned Wellhead Manufacturers/Suppliers for purchase of all sizes, Types & Pressure rating Wellhead Assemblies along with Accessories & Engineering services for a period of three (03) years on as and when required basis.

TERMS OF REFERENCE (TOR)

Bidder to comply following mandatory requirements for acceptance:

1. Manufacturers/Suppliers will be technically prequalified for a period of three (03) years as per Technical prequalification criteria at Annexure "A". Accordingly Financial Bids will be called from only technically prequalified Manufacturers/Suppliers during the 03 year prequalification period for any type, size & Pressure rating of Wellhead Assemblies along with Accessories & Engineering services on as and when required basis.
2. The 03 years period of prequalified Manufacturers/Suppliers will start from the notification of Prequalification of successful Manufacturers/Suppliers on OGDCL website.
3. OGDCL will place purchase orders to the financially lowest Manufacturers/Suppliers against each requirement of Wellhead assemblies AND/OR accessories (Casing hangers, Gate Valves(Manual/Hydraulic), Ring Gaskets, Flange companion, Blind Flange, DSAF, Drilling Spool, Spacer Spools, test plugs, studs, nuts, Needle valves, wear bushing, pressure gauges, seals, seal rings, plastic energizing sticks, Manual/Hydraulic Injection gun with hydraulic pump, Bull plug, line pipe plug, blind plug, R/R tool etc.) issued to Prequalified Manufacturers/Suppliers on as and when required basis during the three (03) years prequalification period.
4. Bidder will study terms of reference/scope of work along with tender documents and generally obtain all information required to enable it to submit its Quote and will be deemed to have satisfied itself as to the correctness and sufficiency of its Quote prior to submitting the bid.
5. Prospective Bidders shall take no advantage of any apparent errors or omissions in the Terms of Reference/SCHEDULE OF REQUIREMENT (SOR) Documents. In the event that any errors or omissions are discovered, prospective Bidder/Bidders shall immediately notify Company and specifically set forth any such errors or omissions in its quotation. Prospective Manufacturers/Suppliers will not make any assumption in preparation of its quotation/Bid and must seek appropriate clarification from COMPANY (OGDCL).
6. Manufacturers/Suppliers will be prequalified for a period of 03 years against each Group (Group-A to Group-G) of Wellhead Assemblies along with Accessories & Engineering Services defined at Annexure "B".
7. Manufacturers/Suppliers being notified as Prequalified against Any of the Wellhead Groups i.e. Group A to Group G will be only considered for the provision of Techno-commercial Proposal during the prequalification tenure of 03 years for the requirement of respective size, type & Pressure rating wellheads complete assemblies AND/OR Any Accessories (Casing hangers, Gate Valves, Ring Gaskets, Flange companion, Blind Flange, DSAF, Drilling Spool, Spacer Spools, test plugs, studs, nuts, Needle valves, wear bushing, pressure gauges, seals, seal rings, plastic energizing sticks, Manual/Hydraulic Injection gun with hydraulic pump, Bull plug, line pipe plug, blind plug, R/R tool etc.).
8. The evaluation criteria will be each group wise (Group-A to Group-G). The order will be placed to the respective Manufacturer/Supplier declared prequalified and stands financially lowest against each group. However OGDCL may ask from prequalified Manufacturers/Suppliers only to quote any one or all items of the Wellhead Assemblies (Groups A to G) or any said accessories as per its operational requirement on as and when required basis during the 3 year tenure of prequalification.
9. Bidder to clearly mention quoted/Not quoted item against each group in the technical bid. Any item not quoted will result in rejection for the respective group (Group A to G).


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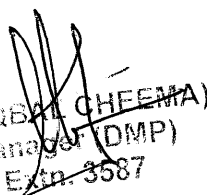
PREQUALIFICATION OF MANUFACTURERS/SUPPLIERS FOR ALL SIZES WELLHEAD ASSEMBLIES ALONG WITH ACCESSORIES

10. Wellhead Assemblies Manufacturers having valid & last consecutive 25 years back API 6A certificates for Manufacturing Wellhead Assemblies along with accessories are eligible to Bid directly or through Bidders.
11. Original Brochure/brochure on USB of the manufacturer(s) containing technical literature/specifications sheets & drawings of all the quoted well head assemblies & accessories (Groups A to G) must be submitted with the offer.
12. The purchase order issuance date and respective rate will prevail even if the purchase order and delivery of consignment is after the 3 year prequalification period provided Techno-Commercial proposal of prequalified Manufacturers/Suppliers has been submitted before the expiry of the 3 year tenure of prequalification.
13. In order to prequalify a Manufacturer/Supplier, it must obtain overall 80 % marks in the "Technical Evaluation Criteria" defined at Annexure "A" with respect to its quoted Groups (Group A to Group G).
14. Third party inspection by internationally reputed inspection company will be required for each consignment against the issued purchase orders during the 3 year tenure of Prequalification. TPI will be arranged by OGDCL from any of the OGDCL nominated TPI Company. Bidder will assist and make necessary arrangement for TPI. Bidder to confirm that the Third Party Inspection (TPI) report verified by OGDCL will be provided with the shipping documents for LC encashment.

Scope of work for TPI will be as follows but shall not be limited to this

TPI Company will perform the following task.

- a) Verification of full body ultrasonic inspection where applicable.
 - b) Verification of All Raw material certificates including Forgings etc. for confirmation of country of origin of Raw Materials. OEM will be responsible to provide proof of purchase of forging with copy of purchase order, shipping documents, Packing List from Forge Master with Heat number & serial number of equipment.
 - c) Visual inspection for any defects
 - d) API drift where applicable.
 - e) Verification of mill test certificates. Certificate of conformance, Hydro test certificates.
 - f) Verification that all equipment is brand new and unused.
 - g) Verification that all the materials (quantity & specifications) & documents are in accordance with Purchase order & Purchase order attachments if any.
 - h) Verification that well heads along with all accessories are manufactured and Monogrammed as per API specs 6A Latest edition.
15. Manufacturer/Supplier/Bidder must submit letter for clean acceptance of OGDCL Master Set of foreign Tender documents (Single stage, Two Envelope/Single Envelope) uploaded on OGDCL website without any exceptions along with the bid.
 16. Terms & Conditions of Tender documents uploaded on OGDCL website on the date of submission of Financial Bids will be applicable for supply of Material. Acceptance to this should be provided in the bid.
 17. Only forged complete well head assemblies & Accessories (where applicable) including casing heads, casing spool, gate valves, flanges etc. will be quoted & supplied by the Manufacturers/Suppliers during the 3 year tenure of Prequalification. Confirmation to this effect should be provided in the bid.
 18. Data sheets/specifications and Drawings of Well Head Assemblies along with complete accessories to be provided by the Bidders/Manufacturers/Suppliers against each quoted Group (Group A to G).
 19. Bidders must provide detailed drawings of offered items and installation procedures with bid.
 20. Bidders must quote & provide complete accessories for each section of Well heads; in case any accessories are missing in detailed SOR (Schedule of Requirement) Group A to G, please quote accordingly mentioning as mandatory item for quoted Wellheads as per Manufacturer design.



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21. All bidders are required to submit complete specifications of the offered well head assembly & accessories as per manufacturer's standard.
22. Authority letters in original from the manufacturer to bidder and from bidder to local agent for offering their wellheads & Accessories against this Prequalification tender enquiry number must be furnished with the Bid. The authority letter must be on company letter head, showing the name, designation and contact details (E-mail & fax number) of the signing authority.
23. Well Head Service Engineer will be provided by the original OEM of Well Heads to install/commission all the provided Well Head assemblies at any OGDCL site in Pakistan on as and when required basis during the 3 years tenure of Prequalification. Confirmation to this effect along with CV's of at least 02 qualified and experienced well head service engineers must be enclosed with offer.
24. In land transportation, boarding/ lodging/messing and security of OEM Service Engineer for installation and commissioning of well head assemblies will be responsibility of the OEM at its own cost. However during the job at Rig site boarding/lodging/messing and security will be provided by OGDCL.
25. Successful Manufacturer/Supplier will arrange insurance and will complete all formalities for inland security clearance of service engineer (In case they depute Foreigner Engineer) from Government agencies accordingly during the 3 years tenure of Prequalification.
26. The Manufacturer will ensure to send Local well head Supervisor/Engineer at Rig site within 07 days (maximum) after receiving mobilization notice (Email/Fax) from OGDCL. In case of Expat Engineer, Mobilization at Rig site is to be made within 10 days (maximum) and the same day rate will be charged for Expat Engineer as for Local Engineer. Confirmation to this effect is to be submitted in the bid.
27. Bidder(s) has to confirm unconditionally on a separate letter that the services of Well Head Service Engineer will be provided at any location in Pakistan (where OGDCL operates under OGDCL security arrangements) during the 3 year tenure of prequalification.
28. The Manufacturers/Suppliers should be able to handle 3 jobs simultaneously. Confirmation to this effect must be submitted with offer.
29. Separate purchase order and service order will be issued for well head assemblies (Equipment) and well head service engineer (services) respectively during the 3 years prequalification period.
30. The service order for services will be placed on the local entity or local authorized office of the manufacturer and will be paid in equivalent Pak Rupees as per actual services rendered.
31. Evaluation criteria will be each group wise i.e. GROUP-A, GROUP-B, GROUP-C, GROUP-D, GROUP-E, GROUP-F & GROUP-G.


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**ANNUEXURE "A"****TECHNICAL EVALUATION & SCORING CRITERIA**

S-No	Description	Allotted Points
1	Manufacturers' International Market Experience of supplying Wellhead Assemblies along with Accessories during last 10 years starting from year 2010. *A documentary evidence to be submitted along with the Bid.	10
	≥ 10 years	10
	< 10 years	0
2	Local support/representative office of Manufacturer * A documentary evidence to be submitted along with the application	5
	Local Support /representative office in Pakistan OR Confirmation to establish Local support office in Pakistan within 45 days after issuance of 1 st Purchase order	5
	Support /representative office outside Pakistan	0
3	Mandatory: The Manufacturers quoted plant/plants must have at least 25 years' Experience of Manufacturing Well head Assemblies and have an approval of API 6A for the last consecutive 25 years, In this regard the latest/Active API 6A certificate along with consecutive 25 years back API 6A certificates (one facility only) or authentic proof from API official website from year 1996 to date should be submitted with technical offer, Scope of API 6A certificate should have the following products: (i) Casing and tubing heads, (ii) Casing and tubing hangers (iii) Valves (iv) Casing Adaptor Spools (v) PSL-1, 2, 3, 3G and 4. Note: 25 years period will be verified from API official website. * A documentary evidence to be submitted along with the Bid.	25
	≥25 years	25
	< 25 years	Disqualify
4	Establishment of Manufacturer *A documentary evidence to be submitted along with the Bid. The same should be verified from official website of Manufacturer.	10
	≥ 30 years	10
	> 25 but < 30 years	5
	Less than 25 years	0
5	Supply of Wellhead Assemblies *Unpriced copies of at least 10 different major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc. or equivalent stature E & P companies of other than manufacturer's own country origin purchase orders sold during the last ten (10) years starting from year 2010 for below mentioned Size, type & pressure rating of Wellhead Assemblies to be submitted with the Bid. (Documentary evidence to prove the equivalent stature of E & P Company other than specified above will be required along with bid, to ascertain the equivalency of E & P Company other than specified above will be OGDCL sole discretion). * 01 mark for each submitted PO with respect to exact size, type & Pressure rating. Irrelevant sizes, type & Pressure rating PO's will not be considered.	70
	WELLHEAD ASSEMBLIES DESCRIPTION-	
	5A 26-3/4" x 21-1/4" x 13-5/8" x 11" – 15K PSI (GROUP A)	10
	5B 26-3/4" x 21-1/4" x 13-5/8" x 11" – 10K (GROUP B)	10
	5C 20-3/4"x13-5/8"x11"-15K(GROUP C)	10
	5D 20-3/4"x13-5/8"x11"-10K (GROUP D)	10
	5E 20-3/4"x13-5/8"x11"-5K (GROUP E)	10
	5F 13-5/8" X 11" – 5000 PSI (GROUP F)	10
	5G 11" x 9-5/8" – 5000 PSI (GROUP G)	10
	Mandatory: Supply Record * A documentary evidence i.e. Unpriced copies of Purchase Orders to be submitted along with the Bid.	10

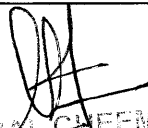

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	Wellhead Assemblies supplied to 10 major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc. or equivalent stature E & P companies in other than Manufacturers own country till tender closing date.	10
	Wellhead Assemblies supplied to < 10 major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc. or equivalent stature E & P companies in other than Manufacturers own country till tender closing date.	Disqualify
7	Offered Delivery Time to Karachi by Sea after Order Confirmation (for Manufacturing on Order)	10
	≤ 4 Months	10
	4 - 6 Months	5
	> 6 but < 9 Months	0
8	Confirmation that Manufacturer has independent R&D facility * A documentary evidence to be supplied with the Bid. Last 05 years Audited Financial reports to confirm the expenditure incurred on R & D related to Wellheads. 01 Marks for each year.	5
	YES	5
	NO	0
9	Wellhead Service Engineers (Manufacturer to submit minimum 02 CV'S for its Wellhead Engineers)	5
	≥5 years' recent Experience of Wellheads with Engineering Degree and have installed Minimum 10 Nos Well Heads. Engineer should be able to read, write/speak English upto satisfaction of OGDCL.	5
	< 5 years' Experience with Non-Engineering Degree	0
10	Mandatory: HTHP SUPPLY OF WELL HEADS (Manufacturers must have supplied Wellheads for HTHP wells internationally in other than Manufacturing own country with challenging conditions requirement)	5
	Unpriced copies of 05 Purchase order (different client) for supplied Wellheads with Specs Sheet, Customer name & Details.	5
	No Supply record or less than 05 PO submitted.	0
11	Manufacturer's/ Bidder's financial standing for the last 05 years * Annual Sale of Wellhead & Accessories for last five years along with last 5 years audited financial reports to be submitted along with the Bid.	10
	≥10 Million USD per year sale	10
	≥5 AND <10 Million USD per year sale	5
	<5 Million USD per year sale	0
12	Mandatory: Documentary evidence of Manufacturer regular Wellhead supply record to the major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc. or equivalent stature E & P companies during last 25 years. (Documentary evidence to prove the equivalent stature of E & P Company other than specified above will be required along with bid, to ascertain the equivalency of E & P Company other than specified above will be OGDCL sole discretion). * Manufacturer to provide last consecutive 25 year's sale record on yearly basis starting from year 1996 to 2020 against each quoted Groups (Group A to G). The supply record should contain details of offered and similar well head, quantity, name of customer/ country & contact address should be submitted with technical offer. The supply record must be on the company letterhead and should indicate the Name & Designation of the signing authority along with his complete contact details phone & fax numbers and his official email address.	25
	Supplied more than 2,000 Wellhead Sets during last 25 years against quoted Wellhead Groups from Group A to Group G.	25
	Supplied ≥ 1,500 Wellhead sets but < 2,000 sets	15
	Supply record < 1,500 Wellhead sets	Disqualify
13	Mandatory: Certificate(s) of satisfactory performance in favour of quoted manufacturer issued by authorized official(s) of at least 05 (Five) different major/ leading international E&P companies like SHELL, BP, ADNOC, EXON, CHEVRON, KOC, PDO, ENI, MOL, PPL or	25


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	equivalent stature E & P Company to be submitted with technical bid for each quoted Groups i.e. Group A to G wellhead assemblies only from the above mentioned companies having origin in other than manufacturer's own country. (Documentary evidence to prove the equivalent stature of the E&P Company other than specified above will be required along with technical bid. To ascertain the equivalency of E & P companies other than specified above will be OGDCL sole discretion). The certificates must be on the company letterhead and should indicate the Name & Designation of the signing authority along with his complete contact details phone, fax numbers and his official email address. Certificates issued by supply/trading houses etc. will not be acceptable. Certificates issued by quoted Manufacturer own country E & P companies alone or in JV collaboration with other company will not be acceptable.	
	5 Satisfactory Performance certificates provided for each quoted Wellheads Groups (Group A to G)	25
	In case If manufacturer has already supplied all offered well head assemblies against each quoted Group i.e. (Group A to G) to OGDCL then its performance will be evaluated on in house report (in this regard OGDCL performance evaluation will be considered as final)	25
	Less than 5 satisfactory performance certificates provided or in house (OGDCL) unsatisfactory performance	Disqualify
14	Mandatory Bidders quoted Manufacturer must have the capability of Producing Wellhead Assemblies for all Material Classes from AA to HH-NL. * A documentary evidence to be supplied with the Bid.	10
	05 No Unpriced copies of supplied Wellhead PO's(different clients) with details of Material grade supplied(AA to HH-NL) to major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc. or equivalent stature E & P companies in other than Manufacturers own country.	10
	No Supply record or less than 05 Purchase order submitted.	Disqualify
15	Mandatory Bidders quoted Manufacturer must have its own or 3rd Party Facilities for following works. I. Cladding facility II. Preheat facility * A documentary evidence to be supplied with the Bid.	10
	Bidders quoted Manufacturers own facilities	10
	3 rd Party hired facilities	5
	No or either of any said Facility not available.	Disqualify
16	Mandatory Manufacturer must have its own PR-2 Lab facility. * A documentary evidence along with unpriced copies of 05 PO's (different clients) to major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc. or equivalent stature E & P companies from other than Manufacturers own country confirming sale of PR-2 wellheads supply from last 10 years to be provided with the Bid along with details of testing facilities available and equipment details.	10
	Establishment of Manufacturers PR-2 lab > 10 years	10
	Establishment of Manufacturers PR-2 lab < 10 years	Disqualify
17	HSEQ & API Q1 certification	5
	Manufacturer/ Bidder has proper HSEQ policy statement and Q1 Certification	5
	No HSEQ policy in place & No Q 1 Certification	0
TOTAL		250

NOTES:

The overall minimum score required for technical acceptance is 80% =200 Marks for any quoted Group (Group A to G). Bidders/Manufacturers must fulfil all "Mandatory" clauses of scoring criteria & TOR's (Clauses # 1 to 31) to prequalify. Detail of all Groups i.e. Group A to G of Wellhead Assemblies along with accessories is mentioned as under; please note that quantities mentioned hereunder are for reference purpose only.


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DETAIL DESCRIPTION OF WELLHEAD ASSEMBLIES & ACCESSORIES

26-3/4" x 21-1/4" x 13-5/8" x 11" – 15K PSI

Wellhead ASSEMBLIES, QTY = 01 SET

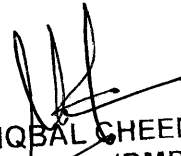
GROUP-A

SECTION-A:

- 1.1 Casing Head Housing forged 26-3/4" API-3000 psi W.P, BX-168 x 24-1/2" slip on Lock bottom with two 2-1/16" API-5000 psi WP studded outlets with hold down screws for wear bushing as per API 6A, PSL-2, PR-1, Temp Class: U, Material class DD. Qty = 01 No.
- 1.2 API Ring Gasket self-sealing ring BX-168, SS 316, Qty = 01 No.
- 1.3 Casing Hanger for 18-5/8" Casing automatic slip & seal type, automatic weight energized seal (Capacity to hang 18-5/8" casing, 139 PPF, P-110, Length +/- 1800 Meters), PSL-2, PR-1, Temp Class: U, Material class DD. Qty = 01 No.
- 1.4 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty=02 Nos.
- 1.5 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty = 02 Nos.
- 1.6 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 1.7 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 1.8 Gasket self-sealing ring RX-24, SS 316. QTY = 03 Nos.
- 1.9 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-2, PR-1, Temp class: U, Material class-DD. Qty = 01 No.
- 1.10 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty = 01 No.
- 1.11 Angled needle Valve, Male X Female with 1/2" NPT- 5000 psi, SS 316 Qty = 01 No.
- 1.12 Wear bushing (Bore size suitable for 22" bit), low alloy steel or equivalent body material for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
- 1.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
- 1.14 Stud 2" x 17.75" zinc plated. Qty = 24 Nos
- 1.15 Nuts Hex. 2" zinc plated. Qty = 48 Nos

SECTION-B:

- 2.1 Spool casing (forged) 26-3/4" API-3000 psi API W.P. BX-168 Flanged Bottom x 21-1/4" API-5,000 psi WP, BX-165 Flanged Top with two 2-1/16" API-5,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 18-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5. Qty = 01 No.
- 2.2 API Ring Gasket self-sealing ring BX-168, SS 316, Qty = 01 No.
- 2.3 API Ring Gasket self-sealing ring BX-165, SS 316, Qty = 01 No.
- 2.4 Casing hanger for 13-3/8" Casing automatic slip & seal type (Capacity to hang 13-3/8" casing, 72 PPF, P-110, Length +/- 2800 Meters), Qty = 01 No.
- 2.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty -= 02 Nos.
- 2.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty = 02 Nos.
- 2.7 Stud 7/8" x 6.5" zinc plated-QTY-=08 Nos.
- 2.8 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 2.9 Gasket self-sealing ring RX-24.SS 316 QTY-=03 Nos.
- 2.10 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
- 2.11 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty = 01 No.
- 2.12 Angled needle valve, Male X Female with 1/2" NPT - 5000 psi, SS 316. Qty = 01 No.
- 2.13 Wear bushing (Bore size suitable for 17" bit), low alloy steel or equivalent body material for casing spool 26-3/4" API-3000 psi x 21-1/4"- 5,000 psi WP Qty = 01 No.
- 2.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 26-3/4" API-3000 psi API x 21-1/4"- 5,000 psi WP Qty = 01 No.


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2.15 Studs 2" x 19" zinc plated. Qty =24 Nos

2.16 Nuts 2" zinc plated. Qty=48 Nos

SECTION-C:

3.1 Spool casing forged 21-1/4" API-5000 psi WP BX-165 flanged bottom x 13-5/8" API-10,000 psi WP BX-159, flanged top with two Nos. 2-1/16" API-10,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 13-3/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5.. Qty = 01 No.

3.2 API Ring Gasket self-sealing ring BX-165, SS 316, Qty = 01 No.

3.3 API Ring Gasket self-sealing ring BX-159, SS 316, Qty = 01 No.

3.4 Casing hanger for 9-5/8" Casing automatic Slip & Seal type (Capacity to hang 9-5/8" casing, 53.5 PPF, P-110, Length +/- 4500 Meters).Qty = 01 No.

3.5 Blind Flange 2-1/16"- 10,000 psi WP x with 9/16" autoclave port. Qty = 02 Nos.

3.6 Gasket self-sealing ring BX-152, SS 316-Qty= 03 Nos.

3.7 Stud 7/8" x 6-1/2" zinc plated-Qty=08 Nos.

3.8 Nuts 7/8" zinc plated-Qty=16 Nos.

3.9 Valve gate forged 2-1/16"-10,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.

3.10 Pressure gauge dia 4-1/2", face 0-10,000 psi, with 9/16" autoclave connection, stainless steel case. Qty = 01 No.

3.11 Angled needle valve male x female with 9/16" autoclave-10,000 psi, SS 316, suitable for pressure gauge at Sr # 3.10. Qty = 01 No.

3.12 Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 21-1/4" -5,000 psi x 13-5/8"- 10,000 psi WP Qty = 01 No.

3.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 21-1/4" -5,000 psi x 13-5/8"- 10,000 psi WP Qty = 01 No.

3.14 Studs 1-7/8" x 17.75" zinc plated. Qty=20 Nos

3.15 Nuts 1-7/8" zinc plated. Qty=40 Nos.

SECTION-D:

4.1 Spool casing forged 13-5/8" API-10,000 psi WP BX-159 flanged bottom x 11" API-15,000 psi WP BX-158, flanged top with two Nos. 2-1/16" API-15,000 psi WP studded outlets with bottom preparation for secondary seal, plastic energizing type for 9-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2, Temp class-U, Material class-EE-0.5. Qty = 01 No.

4.2 API Ring Gasket self-sealing ring BX-159, SS 316, Qty = 01 No.

4.3 API Ring Gasket self-sealing ring BX-158, SS 316, Qty = 01 No.

4.4 Casing hanger for 7" Casing automatic Slip & Seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters).Qty = 01 No.

4.5 Blind Flange 2-1/16"- 15,000 psi WP x with 9/16" autoclave. Qty = 02 Nos.

4.6 Gasket self-sealing ring BX-152, SS 316-Qty= 03 Nos.

4.7 Stud 7/8" x 6-1/2" zinc plated-Qty=08 Nos.

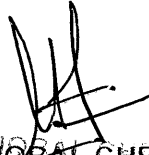
4.8 Nuts 7/8" zinc plated-Qty=16 Nos.

4.9 Valve gate forged 2-1/16"-15,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.

4.10 Pressure gauge dia 4-1/2", face 0-15,000 psi, with 9/16" autoclave connection, stainless steel case. Qty = 01 No.

4.11 Angled needle valve male x female with 9/16" autoclave-15,000 psi, SS 316, suitable for pressure gauge at Sr # 4.10. Qty = 01 No.

4.12 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -10,000 psi x 11"- 15,000 psi WP Qty = 01 No.


(M. GOBAL CHEEMA)
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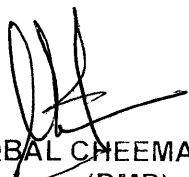




- 4.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -10,000 psi x 11"-15,000 psi WP Qty = 01 No.
- 4.14 Studs 2" x 19.5" zinc plated. Qty=20 Nos
- 4.15 Nuts 2" zinc plated. Qty=40 Nos.

SECTION-E: (LOOSE SPARE PARTS, AS A BACKUP)

- 1. Spare Set of 24-1/2" OD Casing Seal, Qty = 01 No.
- 2. API Ring Gasket self-sealing ring BX-168, SS 316, Qty = 02 Nos.
- 3. API Gasket self-sealing ring RX-24, SS 316. QTY = 02 Nos.
- 4. Seal rings for casing hanger 18-5/8" at item # 1.3. Qty = 01 No.
- 5. Seal rings for Combination BOP test plug & wear bushing R & R tool at Sr#1.13. QTY=03Nos
- 6. API Ring Gasket self-sealing ring BX-165, SS 316, Qty = 02 Nos.
- 7. Secondary seal assembly, for 18-5/8" casing with retainer/ring energizing stick Qty=01 No.
- 8. Seal rings for casing hanger 13-3/8" at item at S. No. 2.4. Qty =01 No.
- 9. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#2.14, Qty=3 Nos.
- 10. API Ring Gasket self-sealing ring BX-159, SS 316, Qty = 02 Nos.
- 11. Gasket self-sealing ring BX-152, SS 316-Qty= 03 Nos.
- 12. Secondary seal assembly, for 13-3/8" casing with retainer/ring energizing stick-Qty=01 No.
- 13. Spare seal rings for casing hanger 9-5/8" at S. No. 3.4-Qty=01 No.
- 14. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#3.13Qty=03 Nos.
- 15. API Ring Gasket self-sealing ring BX-158, SS 316, Qty = 01 No.
- 16. Spare Gate valve forged 2-1/16"-15,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
- 17. Stud 7/8" x 6-1/2" zinc plated-Qty=08 Nos.
- 18. Nuts 7/8" zinc plated-Qty=16 Nos.
- 19. Secondary seal assembly, for 9-5/8" casing with retainer/ring energizing stick-Qty=01 No.
- 20. Spare seal rings for casing hanger 7" at item at S. No. 4.4-Qty=01 No.
- 21. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#4.13Qty=03 Nos.
- 22. Manual Injection gun for plastic sticks--Qty=01 No.
- 23. Energizing stick--Qty=100 x 1 =100 Nos.(Considering 3/4" x 4" long sticks +/- 100 sticks for one complete Wellhead set (All four sections), however Bidder will quote enough sticks to energize one complete wellhead set (All Four sections).
- 24. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
- 25. Wear bushing (Bore size suitable for 22" bit), low alloy steel or equivalent body material for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
- 26. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin conn.(both ends) with tong neck for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
- 27. Wear bushing (Bore size suitable for 17" bit), low alloy steel or equivalent body material for casing spool 26-3/4" API-3000 psi x 21-1/4"- 5,000 psi WP Qty = 01 No.
- 28. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 26-3/4" API-3000 psi API x 21-1/4"- 5,000 psi WP Qty = 01 No.
- 29. Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 21-1/4" -5,000 psi x 13-5/8"- 10,000 psi WP Qty = 01 No.
- 30. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 21-1/4" -5,000 psi x 13-5/8"- 10,000 psi WP Qty = 01 No.
- 31. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -10,000 psi x 11"- 15,000 psi WP Qty = 01 No.
- 32. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -10,000 psi x 11"-15,000 psi WP Qty = 01 No.


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26-3/4" x 21-1/4" x 13-5/8" x 11" – 10K PSI

Wellhead ASSEMBLIES, QTY = 01 SET

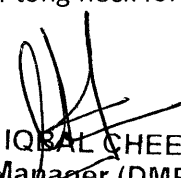
GROUP-B

SECTION-A:

- 1.1 Casing Head Housing forged 26-3/4" API-3000 psi W.P, BX-168 x 24-1/2" slip on Lock bottom with two 2-1/16" API-5000 psi WP studded outlets with hold down screws for wear bushing as per API 6A, PSL-2, PR-1, Temp Class: U, Material class DD. Qty = 01 No.
- 1.2 API Ring Gasket self-sealing ring BX-168, SS 316, Qty = 01 No.
- 1.3 Casing Hanger for 18-5/8" Casing automatic slip & seal type, automatic weight energized seal (Capacity to hang 18-5/8" casing, 139 PPF, P-110, Length +/- 1800 Meters), PSL-2, PR-1, Temp Class: U, Material class DD. Qty = 01 No.
- 1.4 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty=02 Nos.
- 1.5 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty = 02 Nos.
- 1.6 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 1.7 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 1.8 Gasket self-sealing ring RX-24, SS 316. QTY= 03 Nos.
- 1.9 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-2, PR-1, Temp class: U, Material class-DD. Qty = 01 No.
- 1.10 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty = 01 No.
- 1.11 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty = 01 No.
- 1.12 Wear bushing (Bore size suitable for 22" bit), low alloy steel or equivalent body material for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
- 1.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
- 1.14 Stud 2" x 17.75" zinc plated. Qty = 24 Nos
- 1.15 Nuts Hex. 2" zinc plated. Qty = 48 Nos

SECTION-B:

- 2.1 Spool casing (forged) 26-3/4" API-3000 psi API W.P. BX-168 Flanged Bottom x 21-1/4" API-5,000 psi WP, BX-165 Flanged Top with two 2-1/16" API-5,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 18-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5. Qty = 01 No.
- 2.2 API Ring Gasket self-sealing ring BX-168, SS 316, Qty = 01 No.
- 2.3 API Ring Gasket self-sealing ring BX-165, SS 316, Qty = 01 No.
- 2.4 Casing hanger for 13-3/8" Casing automatic slip & seal type (Capacity to hang 13-3/8" casing, 72 PPF, P-110, Length +/- 2800 Meters), Qty = 01 No.
- 2.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty -= 02 Nos.
- 2.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty = 02 Nos.
- 2.7 Stud 7/8" x 6.5" zinc plated-QTY-=08 Nos.
- 2.8 Nuts 7/8" zinc plated-QTY-= 16 Nos.
- 2.9 Gasket self-sealing ring RX-24.SS 316 QTY-=03 Nos.
- 2.10 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
- 2.11 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty = 01 No.
- 2.12 Angled needle Valve , Male X Female with 1/2" NPT - 5000 psi, SS 316,Qty = 01 No.
- 2.13 Wear bushing (Bore size suitable for 17" bit), low alloy steel or equivalent body material for casing spool 26-3/4" API-3000 psi x 21-1/4" - 5,000 psi WP Qty = 01 No.
- 2.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 26-3/4" API-3000 psi API x 21-1/4" - 5,000 psi WP Qty = 01 No.


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Manager (DMP)
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2.15 Studs 2" x 19" zinc plated. Qty =24 Nos

2.16 Nuts 2" zinc plated. Qty=48 Nos

SECTION-C:

3.1 Spool casing forged 21-1/4" API-5000 psi WP BX-165 flanged bottom x 13-5/8" API-5,000 psi WP BX-160, flanged top with two Nos. 2-1/16" API-5,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 13-3/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5.. Qty = 01 No.

3.2 API Ring Gasket self-sealing ring BX-165, SS 316, Qty = 01 No.

3.3 API Ring Gasket self-sealing ring BX-160, SS 316, Qty = 01 No.

3.4 Casing hanger for 9-5/8" Casing automatic Slip & Seal type (Capacity to hang 9-5/8" casing, 53.5 PPF, P-110, Length +/- 4500 Meters).Qty = 01 No.

3.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty = 02 Nos.

3.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty = 02 Nos.

3.7 Stud 7/8" x 6.5" zinc plated-QTY=08 Nos.

3.8 Nuts 7/8" zinc plated-QTY=16 = 16 Nos.

3.9 Gasket self-sealing ring RX-24.SS 316 QTY=03 Nos.

3.10 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.

3.11 Pressure gauge 4-1/2", face 0-5000 psi stainless steel case. Qty = 01 No.

3.12 Angled needle valve, Male X Female with 1/2" NPT - 5000 psi, SS 316. Qty = 01 No.

3.13 Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 21-1/4" -5,000 psi x 13-5/8" - 5,000 psi WP Qty = 01 No.

3.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 21-1/4" -5,000 psi x 13-5/8" - 5,000 psi WP Qty = 01 No.

3.15 Studs 1-5/8" x 13" zinc plated. Qty=16 Nos

3.16 Nuts 1-5/8" zinc plated. Qty=32 Nos.

SECTION-D:

4.1 Spool casing forged 13-5/8" API-5000 psi WP BX-160 flanged bottom x 11" API-10,000 psi WP BX-158, flanged top with two Nos. 2-1/16" API-10,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 9-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5.. Qty = 01 No.

4.2 API Ring Gasket self-sealing ring BX-160, SS 316, Qty = 01 No.

4.3 API Ring Gasket self-sealing ring BX-158, SS 316, Qty = 01 No.

4.4 Casing hanger for 7" Casing automatic Slip & Seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters).Qty = 01 No.

4.5 Blind Flange 2-1/16"- 10,000 psi WP x with 9/16" autoclave. Qty = 02 Nos.

4.6 Gasket self-sealing ring BX-152, SS 316-Qty= 03 Nos.

4.7 Stud 7/8" x 6-1/2" zinc plated-Qty=08 Nos.

4.8 Nuts 7/8" zinc plated-Qty=16 Nos.


4.9 Valve gate forged 2-1/16"-10,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.

4.10 Pressure gauge dia 4-1/2", face 0-10,000 psi, with 9/16" autoclave connection, stainless steel case. Qty = 01 No.

4.11 Angled needle Valve, male x female with 9/16" autoclave-10,000 psi, SS 316, suitable for pressure gauge at Sr # 4.10. Qty = 01 No.

4.12 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty = 01 No.

4.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -5,000 psi x 11"-10,000 psi WP Qty = 01 No.


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Manager (DMP)
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4.14 Studs 1-3/4" x 15.5" zinc plated. Qty=16 Nos

4.15 Nuts 1-3/4" zinc plated. Qty= 32 Nos.

SECTION-E: (LOOSE SPARE PARTS, AS A BACKUP)

1. Spare Set of 24-1/2" OD Casing Seal, Qty = 01 No.
2. API Ring Gasket self-sealing ring BX-168, SS 316, Qty = 02 Nos.
3. API Gasket self-sealing ring RX-24, SS 316. QTY = 03 Nos.
4. Seal rings for casing hanger 18-5/8" at item # 1.3. Qty = 01 No.
5. Seal rings for Combination BOP test plug & wear bushing R & R tool at Sr#1.13. QTY=03Nos
6. API Ring Gasket self-sealing ring BX-165, SS 316, Qty = 02 Nos.
7. Secondary seal assembly, for 18-5/8" casing with retainer/ring energizing stick Qty=01 No.
8. Seal rings for casing hanger 13-3/8" at item at S. No. 2.4. Qty =01 No.
9. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#2.14, Qty=3 Nos.
10. API Ring Gasket self-sealing ring BX-160, SS 316, Qty = 02 Nos.
11. Gasket self-sealing ring BX-152, SS 316-Qty= 03 Nos.
12. Secondary seal assembly, for 13-3/8" casing with retainer/ring energizing stick-Qty=01 No.
13. Spare seal rings for casing hanger 9-5/8" at S. No. 3.4-Qty=01 No.
14. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#3.14 Qty=03 Nos.
15. API Ring Gasket self-sealing ring BX-158, SS 316, Qty = 02 Nos.
16. Spare Gate valve forged 2-1/16"-10,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
17. Stud 7/8" x 6-1/2" zinc plated-Qty=08 Nos.
18. Nuts 7/8" zinc plated-Qty=16 Nos.
19. Secondary seal assembly, for 9-5/8" casing with retainer/ring energizing stick-Qty=01 No.
20. Spare seal rings for casing hanger 7" at item at S. No. 4.4-Qty=01 No.
21. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#4.13 Qty=03 Nos.
22. Manual Injection gun for plastic sticks--Qty=01 No.
23. Energizing stick--Qty=100 =100 Nos.(Considering 3/4" x 4" long sticks +/- 100 sticks for one complete Wellhead set (All four sections), however Bidder will quote enough sticks to energize one complete wellhead set (All Four sections).
24. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
25. Wear bushing (Bore size suitable for 22" bit), low alloy steel or equivalent body material for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
26. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 26-3/4" - 3000 psi. Qty = 01 No.
27. Wear bushing (Bore size suitable for 17" bit), low alloy steel or equivalent body material for casing spool 26-3/4" API-3000 psi x 21-1/4"- 5,000 psi WP Qty = 01 No.
28. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 26-3/4" API-3000 psi API x 21-1/4"- 5,000 psi WP Qty = 01 No.
29. Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 21-1/4" -5,000 psi x 13-5/8"- 5,000 psi WP Qty = 01 No.
30. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 21-1/4" -5,000 psi x 13-5/8"- 5,000 psi WP Qty = 01 No.
31. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty = 01 No.
32. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty = 01 No.


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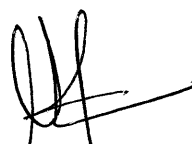
20-3/4"x13-5/8"x11"-15K PSI
WELL HEAD ASSEMBLIES, QTY = 01 SET
GROUP-C

SECTION-A:

- 1.1 Casing Head Housing forged 20-3/4" API-3000 psi W.P, RX-74 x 20" slip on Lock bottom with two 2-1/16" API-5000 psi WP studded outlets with hold down screws for wear bushing as per API 6A, PSL-2, PR-1, Temp Class: U, Material class DD. Qty 01 = 01 No.
- 1.2 API Ring Gasket self-sealing ring RX-74, SS 316, Qty 01 = 01 No.
- 1.3 Casing Hanger for 13-3/8" Casing automatic slip & seal type, automatic weight energized seal (Capacity to hang 13-3/8" casing, 72 PPF, P-110, Length +/- 2800 Meters), PSL-2, PR-1, Temp Class: U, Material class DD . Qty 01 = 01 No.
- 1.4 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty-2 = 02 Nos.
- 1.5 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 1.6 Stud 7/8" x 6.5" zinc plated-QTY-8 = 08 Nos.
- 1.7 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 1.8 Gasket self-sealing ring RX-24, SS 316. QTY-03 = 03 Nos.
- 1.9 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-2, PR-1, Temp class: U, Material class-DD. Qty 01 = 01 No.
- 1.10 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01 = 01 No.
- 1.11 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty 01 = 01 No.
- 1.12 Wear bushing (Bore size suitable for 17-1/2" bit), low alloy steel or equivalent body material for casing head housing 20-3/4" - 3000 psi. Qty 01 = 01 No.
- 1.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 20-3/4" - 3000 psi. Qty = 01 No.
- 1.14 Stud 2" x 15.5" zinc plated. Qty 20 = 20 Nos
- 1.15 Nuts Hex. 2" zinc plated. Qty 40 = 40 Nos

SECTION-B:

- 2.1 Spool casing (forged) 20-3/4" API-3000 psi API W.P. RX-74 Flanged Bottom x 13-5/8" API-10,000 psi WP, BX-159 Flanged Top with two 2-1/16" API-10,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 13-3/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5. Qty 01 = 01 No.
- 2.2 API Ring Gasket self-sealing ring RX-74, SS 316, Qty 01 = 01 No.
- 2.3 API Ring Gasket self-sealing ring BX-159, SS 316, Qty 01 = 01 No.
- 2.4 Casing hanger for 9-5/8" Casing automatic slip & seal type (Capacity to hang 9-5/8" casing, 53.5 PPF, P-110, Length +/- 4500 Meters), Qty 01 = 01 No.
- 2.5 Blind Flange 2-1/16"- 10,000 psi WP x with 9/16" autoclave. Qty 02 = 02 Nos.
- 2.6 Stud 7/8" x 6-1/2" zinc plated-Qty-8 = 08 Nos.
- 2.7 Nuts 7/8" zinc plated-Qty-16 = 16 Nos.
- 2.8 Gasket self-sealing ring BX-152, SS 316-Qty-03 = 03 Nos.
- 2.9 Valve gate forged 2-1/16"-10,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 2.10 Pressure gauge dia 4-1/2", face 0-10,000 psi, with 9/16" autoclave connection, stainless steel case. Qty 01 = 01 No.
- 2.11 Angled needle Valve, male x female with 9/16" autoclave-10,000 psi, SS 316, suitable for pressure gauge at Sr # 2.10. Qty 01 = 01 No.
- 2.12 Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 10,000 psi WP Qty 01 = 01 No.


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PREQUALIFICATION OF MANUFACTURERS FOR ALL SIZES WELLHEAD ASSEMBLIES ALONG WITH ACCESSORIES

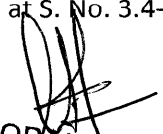
- 2.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 10,000 psi WP Qty = 01 No.
- 2.14 Studs 1-7/8" x 17-3/4" zinc plated. Qty -20 =20 Nos
- 2.15 Nuts 1-7/8" zinc plated. Qty-40 =40 Nos

SECTION-C:

- 3.1 Spool casing forged 13-5/8" API-10,000 psi WP BX-159 flanged bottom x 11" API-15,000 psi WP BX-158, flanged top with two Nos. 2-1/16" API-15,000 psi WP studded outlets with bottom preparation for secondary seal, plastic energizing type for 9-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2, Temp class-U, Material class-EE-0.5. Qty 01 = 01 No.
- 3.2 API Ring Gasket self-sealing ring BX-159, SS 316, Qty 01 = 01 No.
- 3.3 API Ring Gasket self-sealing ring BX-158, SS 316, Qty 01 = 01 No.
- 3.4 Casing hanger for 7" Casing automatic Slip & Seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters).Qty 01 = 01 No.
- 3.5 Blind Flange 2-1/16"- 15,000 psi WP x with 9/16" autoclave. Qty 02 = 02 Nos.
- 3.6 Gasket self-sealing ring BX-152, SS 316-Qty-03 = 03 Nos.
- 3.7 Stud 7/8" x 6-1/2" zinc plated-Qty-8 =08 Nos.
- 3.8 Nuts 7/8" zinc plated-Qty-16 =16 Nos.
- 3.9 Valve gate forged 2-1/16"-15,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 3.10 Pressure gauge dia 4-1/2", face 0-15,000 psi, with 9/16" autoclave connection, stainless steel case. Qty 01 = 01 No.
- 3.11 Angled needle valve, male x female with 9/16" autoclave-15,000 psi, SS 316, suitable for pressure gauge at Sr # 3.10. Qty 01 = 01 No.
- 3.12 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -10,000 psi x 11"- 15,000 psi WP Qty 01 = 01 No.
- 3.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -10,000 psi x 11"- 15,000 psi WP Qty = 01 No.
- 3.14 Studs 2" x 19.5" zinc plated. Qty-20 = 20 Nos
- 3.15 Nuts 2" zinc plated. Qty-40 =40 Nos.

SECTION-D: (LOOSE SPARE PARTS, AS A BACKUP)

1. Spare Set of 20" OD Casing Seal, Qty = 01 No.
2. API Ring Gasket self-sealing ring RX-74, SS 316, Qty = 02 Nos.
3. API Gasket self-sealing ring RX-24, SS 316. QTY-= 03 Nos.
4. Spare seal rings for casing hanger 13-3/8" at item No. 1.3.Qty = 1 No.
5. Spare seal rings for Combination BOP test plug & wear bushing R & R tool at Sr # 1.13. QTY-= 03 Nos.
6. API Ring Gasket self-sealing ring BX-159, SS 316, Qty = 02 Nos.
7. Gasket self-sealing ring BX-152, SS 316-Qty-= 04 Nos.
8. Spare secondary seal assembly, for 13-3/8" OD casing with retainer/ ring energizing stick Qty =01 No.
9. Spare seal rings for casing hanger 9-5/8" at item at S. No. 2.4.Qty =01 Nos.
10. Spare seal rings for Combination BOP test plug & wear bushing R & R tool for item at Sr # 2.13- Qty-=03 Nos.
11. API Ring Gasket self-sealing ring BX-158, SS 316, Qty = 01 No.
12. Spare Gate valve forged 2-1/16"-15,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
13. Stud 7/8" x 6-1/2" zinc plated-Qty-=08 Nos.
14. Nuts 7/8" zinc plated-Qty-=16 Nos.
15. Secondary seal assembly, for 9-5/8" casing with retainer/ring energizing stick-Qty-=01No.
16. Spare seal rings for casing hanger 7" at item at S. No. 3.4-Qty-=01 No.



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17. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#3.13Qty=03 Nos.
18. Manual Injection gun for plastic sticks--Qty=01 No.
19. Energizing stick--Qty-100 x 1 =100 Nos.(Considering 3/4" x 4" long sticks +/- 100 sticks for one complete Wellhead set (All three sections), however Bidder will quote enough sticks to energize one (01) complete wellhead set (All three sections).
20. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
21. Wear bushing (Bore size suitable for 17-1/2" bit), low alloy steel or equivalent body material for casing head housing 20-3/4" - 3000 psi. Qty 01 = 01 No.
22. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 20-3/4" - 3000 psi. Qty = 01 No.
23. Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 10,000 psi WP Qty 01 = 01 No.
24. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 10,000 psi WP Qty = 01 No.
25. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -10,000 psi x 11"- 15,000 psi WP Qty 01 = 01 No.
26. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -10,000 psi x 11"- 15,000 psi WP Qty = 01 No.


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20-3/4"x13-5/8"x11"-10K PSI
WELL HEAD ASSEMBLIES, QTY = 01 SET
GROUP-D

SECTION-A:

- 1.1 Casing Head Housing forged 20-3/4" API-3000 psi W.P, RX-74 x 20" slip on Lock bottom with two 2-1/16" API-5000 psi WP studded outlets with hold down screws for wear bushing as per API 6A, PSL-2, PR-1, Temp Class: U, Material class DD. Qty 01 = 01 No.
- 1.2 API Ring Gasket self-sealing ring RX-74, SS 316, Qty 01 = 01 No.
- 1.3 Casing Hanger for 13-3/8" Casing automatic slip & seal type, automatic weight energized seal (Capacity to hang 13-3/8" casing, 72 PPF, P-110, Length +/- 2800 Meters), PSL-2, PR-1, Temp Class: U, Material class DD. Qty 01 = 01 No.
- 1.4 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty-2 = 02 Nos.
- 1.5 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 1.6 Stud 7/8" x 6.5" zinc plated-QTY-8 = 08 Nos.
- 1.7 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 1.8 Gasket self-sealing ring RX-24, SS 316. QTY-03 = 03 Nos.
- 1.9 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-2, PR-1, Temp class: U, Material class-DD. Qty 01 = 01 No.
- 1.10 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01 = 01 No.
- 1.11 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty 01 = 01 No.
- 1.12 Wear bushing (Bore size suitable for 17-1/2" bit), low alloy steel or equivalent body material for casing head housing 20-3/4" - 3000 psi. Qty 01 = 01 No.
- 1.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 20-3/4" - 3000 psi. Qty = 01 No.
- 1.14 Stud 2" x 15.5" zinc plated. Qty 20 = 20 Nos
- 1.15 Nuts Hex. 2" zinc plated. Qty 40 = 40 Nos

SECTION-B:

- 2.1 Spool casing (forged) 20-3/4" API-3000 psi API W.P. RX-74 Flanged Bottom x 13-5/8" API-5,000 psi WP, BX-160 Flanged Top with two 2-1/16" API-5,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 13-3/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Temp class-U, Material class-EE 0.5. Qty 01 = 01 No.
- 2.2 API Ring Gasket self-sealing ring RX-74, SS 316, Qty 01 = 01 No.
- 2.3 API Ring Gasket self-sealing ring BX-160, SS 316, Qty 01 = 01 No.
- 2.4 Casing hanger for 9-5/8" Casing automatic slip & seal type (Capacity to hang 9-5/8" casing, 53.5 PPF, P-110, Length +/- 4500 Meters), Qty 01 = 01 No.
- 2.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty -02 = 02 Nos.
- 2.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 2.7 Stud 7/8" x 6.5" zinc plated-QTY-8 = 08 Nos.
- 2.8 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 2.9 Gasket self-sealing ring RX-24.SS 316 QTY-03 = 03 Nos.
- 2.10 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 2.11 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01 = 01 No.
- 2.12 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty 01 = 01 No.
- 2.13 Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 5,000 psi WP. Qty 01 = 01 No.
- 2.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 5,000 psi WP Qty = 01 No.
- 2.15 Studs 1-5/8" x 13" zinc plated. Qty -16 = 16 Nos


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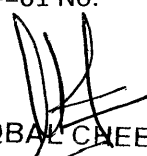
2.16 Nuts 1-5/8" zinc plated. Qty-32 =32 Nos

SECTION-C:

- 3.1 Spool casing forged 13-5/8" API-5000 psi WP BX-160 flanged bottom x 11" API-10,000 psi WP BX-158, flanged top with two Nos. 2-1/16" API-10,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 9-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5.. Qty 01 = 01 No.
- 3.2 API Ring Gasket self-sealing ring BX-160, SS 316, Qty 01 = 01 No.
- 3.3 API Ring Gasket self-sealing ring BX-158, SS 316, Qty 01 = 01 No.
- 3.4 Casing hanger for 7" Casing automatic Slip & Seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters).Qty 01 = 01 No.
- 3.5 Blind Flange 2-1/16"- 10,000 psi WP x with 9/16" autoclave. Qty 02 = 02 Nos.
- 3.6 Gasket self-sealing ring BX-152, SS 316-Qty-03 = 03 Nos.
- 3.7 Stud 7/8" x 6-1/2" zinc plated-Qty-8 =08 Nos.
- 3.8 Nuts 7/8" zinc plated-Qty-16 =16 Nos.
- 3.9 Valve gate forged 2-1/16"-10,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 3.10 Pressure gauge dia 4-1/2", face 0-10,000 psi, with 9/16" autoclave connection, stainless steel case. Qty 01 = 01 No.
- 3.11 Angled needle Valve, male x female with 9/16" autoclave-10,000 psi, SS 316, suitable for pressure gauge at Sr # 3.10. Qty 01 = 01 No.
- 3.12 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty 01 = 01 No.
- 3.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty = 01 No.
- 3.14 Studs 1-3/4" x 15.5" zinc plated. Qty-16 =16 Nos
- 3.15 Nuts 1-3/4" zinc plated. Qty-32 =32 Nos.

SECTION-D: (LOOSE SPARE PARTS, AS A BACKUP)


1. Spare Set of 20" OD Casing Seal, Qty = 01 No.
2. API Ring Gasket self-sealing ring RX-74, SS 316, Qty = 03 Nos
3. API Gasket self-sealing ring RX-24, SS 316. QTY-= 03 Nos.
4. Spare seal rings for casing hanger 13-3/8" at item No. 1.3.Qty = 1 No.
5. Spare seal rings for Combination BOP test plug & wear bushing R & R tool at Sr # 1.13. QTY-= 03 Nos.
6. API Ring Gasket self-sealing ring BX-160, SS 316, Qty = 01 No.
7. Spare secondary seal assembly, for 13-3/8" OD casing with retainer/ ring energizing stick Qty -=01 No.
8. Spare seal rings for casing hanger 9-5/8" at item at S. No. 2.4.Qty =01 No.
9. Spare seal rings for Combination BOP test plug & wear bushing R & R tool for item at Sr # 2.14- Qty-=03 Nos.
10. API Ring Gasket self-sealing ring BX-160, SS 316, Qty = 01 No.
11. API Ring Gasket self-sealing ring BX-158, SS 316, Qty = 01 No.
12. Gasket self-sealing ring BX-152, SS 316-Qty-= 03 Nos.
13. Spare gate valve forged 2-1/16"-10,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
14. Stud 7/8" x 6-1/2" zinc plated-Qty-=08 Nos.
15. Nuts 7/8" zinc plated-Qty-=16 Nos.
16. Secondary seal assembly, for 9-5/8" casing with retainer/ring energizing stick-Qty-=01No.
17. Spare seal rings for casing hanger 7" at item at S. No. 3.4-Qty-=01 No.
18. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#3.13Qty=03 Nos.
19. Manual Injection gun for plastic sticks--Qty-=01 No.


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20. Energizing stick--Qty-100 x 1 =100 Nos.(Considering 3/4" X 4" long sticks +/- 100 sticks for one complete Wellhead set (All three sections), however Bidder will quote enough sticks to energize one (01) complete wellhead set (All three sections).
21. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
22. Wear bushing (Bore size suitable for 17-1/2" bit), low alloy steel or equivalent body material for casing head housing 20-3/4" - 3000 psi. Qty 01 = 01 No.
23. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 20-3/4" - 3000 psi. Qty = 01 No.
24. Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 5,000 psi WP. Qty 01 = 01 No.
25. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 5,000 psi WP Qty = 01 No.
26. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty 01 = 01 No.
27. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -5,000 psi x 11"- 10,000 psi WP Qty = 01 No.


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20-3/4"x13-5/8"x11"-5K PSI
WELL HEAD ASSEMBLIES, QTY = 01 SET
GROUP-E

SECTION-A:

- 1.1 Casing Head Housing forged 20-3/4" API-3000 psi W.P, RX-74 x 20" slip on Lock bottom with two 2-1/16" API-5000 psi WP studded outlets with hold down screws for wear bushing as per API 6A, PSL-2, PR-1, Temp Class: U, Material class DD. Qty 01 = 01 No.
- 1.2 API Ring Gasket self-sealing ring RX-74, SS 316, Qty 01 = 01 No.
- 1.3 Casing Hanger for 13-3/8" Casing automatic slip & seal type, automatic weight energized seal(Capacity to hang 13-3/8" casing, 72 PPF, P-110, Length +/- 2800 Meters), PSL-2, PR-1, Temp Class: U, Material class DD . Qty 01 = 01 No.
- 1.4 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty-2 =02 Nos.
- 1.5 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 1.6 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 1.7 Nuts 7/8" zinc plated-QTY-16 = 16 Nos.
- 1.8 Gasket self-sealing ring RX-24, SS 316. QTY-03 = 03 Nos.
- 1.9 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-2, PR-1, Temp class: U, Material class-DD. Qty 01 = 01 No.
- 1.10 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01 = 01 No.
- 1.11 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty 01 = 01 No.
- 1.12 Wear bushing (Bore size suitable for 17-1/2" bit), low alloy steel or equivalent body material for casing head housing 20-3/4" - 3000 psi. Qty 01 = 01 No.
- 1.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 20-3/4" - 3000 psi. Qty = 01 No.
- 1.14 Stud 2" x 15.5" zinc plated. Qty 20 = 20 Nos
- 1.15 Nuts Hex. 2" zinc plated. Qty 40 = 40 Nos

SECTION-B:

- 2.1 Spool casing (forged) 20-3/4" API-3000 psi API W.P. RX-74 Flanged Bottom x 13-5/8" API- 5,000 psi WP, BX-160 Flanged Top with two 2-1/16" API-5,000 psi WP studded outlets with bottom Secondary seal, plastic energizing type for 13-3/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5. Qty 01 = 01 No.
- 2.2 API Ring Gasket self-sealing ring RX-74, SS 316, Qty 01 = 01 No.
- 2.3 API Ring Gasket self-sealing ring BX-160, SS 316, Qty 01 = 01 No.
- 2.4 Casing hanger for 9-5/8" Casing automatic slip & seal type (Capacity to hang 9-5/8" casing, 53.5 PPF, P-110, Length +/- 4500 Meters), Qty 01 = 01 No.
- 2.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty -02 = 02 Nos.
- 2.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 2.7 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 2.8 Nuts 7/8" zinc plated-QTY-16 =16 Nos.
- 2.9 Gasket self-sealing ring RX-24.SS 316 QTY-03 =03 Nos.
- 2.10 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 2.11 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01 = 01 No.
- 2.12 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty 01 = 01 No.
- 2.13 Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 5,000 psi WP. Qty 01 = 01 No.
- 2.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 20-3/4" API-3000 psi API x 13-5/8"- 5,000 psi WP Qty = 01 No.
- 2.15 Studs 1-5/8" x 13" zinc plated. Qty -16 =16 Nos


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2.16 Nuts 1-5/8" zinc plated. Qty-32 =32 Nos


SECTION-C:

- 3.1 Spool casing forged 13-5/8" API-5000 psi WP BX-160 flanged bottom x 11" API-5,000 psi WP RX-54, flanged top with two Nos. 2-1/16" API-5,000 psi WP studed outlets with bottom Secondary seal, plastic energizing type for 9-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5.. Qty 01 = 01 No.
- 3.2 API Ring Gasket self-sealing ring BX-160, SS 316, Qty 01 = 01 No.
- 3.3 API Ring Gasket self-sealing ring RX-54, SS 316, Qty 01 = 01 No.
- 3.4 Casing hanger for 7" Casing automatic Slip & Seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters).Qty 01 = 01 No.
- 3.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty -02 = 02 Nos.
- 3.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 3.7 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 3.8 Nuts 7/8" zinc plated-QTY-16 =16 Nos.
- 3.9 Gasket self-sealing ring RX-24.SS 316 QTY-03 =03 Nos.
- 3.10 Valve gate forged 2-1/16"-5,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 3.11 Pressure gauge dia 4-1/2", face 0-5,000 psi, stainless steel case. Qty 01 = 01 No.
- 3.12 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316, suitable for pressure gauge at Sr # 3.11. Qty 01 = 01 No.
- 3.13 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -5,000 psi x 11"- 5,000 psi WP Qty 01 = 01 No.
- 3.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -5,000 psi x 11"- 5,000 psi WP Qty = 01 No.
- 3.15 Studs 1-7/8" x 15" zinc plated. Qty-12 =12 Nos
- 3.16 Nuts 1-7/8" zinc plated. Qty-24 =24 Nos.

SECTION-D: (LOOSE SPARE PARTS, AS A BACKUP)

1. Spare Set of 20" OD Casing Seal, Qty = 01 No.
2. API Ring Gasket self-sealing ring RX-74, SS 316, Qty = 01 No.
3. API Ring Gasket self-sealing ring RX-54, SS 316, Qty 01 = 01 No.
4. API Gasket self-sealing ring RX-24, SS 316. QTY-= 03 Nos.
5. Spare seal rings for casing hanger 13-3/8" at item No. 1.3.Qty = 1 No.
6. Spare seal rings for Combination BOP test plug & wear bushing R & R tool at Sr # 1.13. QTY-= 03 Nos.
7. API Ring Gasket self-sealing ring BX-160, SS 316, Qty = 02 Nos.
8. Spare secondary seal assembly, for 13-3/8" OD casing with retainer/ ring energizing stick Qty -=01 No.
9. Spare seal rings for casing hanger 9-5/8" at item at S. No. 2.4.Qty =01 No.
10. Spare seal rings for Combination BOP test plug & wear bushing R & R tool for item at Sr # 2.14- Qty-=03 Nos.
11. Spare gate valve forged 2-1/16"-5,000 psi WP, double flanged, including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty = 01 No.
12. Stud 7/8" x 6-1/2" zinc plated-Qty-=08 Nos.
13. Nuts 7/8" zinc plated-Qty-=16 Nos.
14. Secondary seal assembly, for 9-5/8" casing with retainer/ring energizing stick-Qty-=01No.
15. Spare seal rings for casing hanger 7" at item at S. No. 3.4-Qty-=01 No.
16. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#3.14Qty=03 Nos.
17. Manual Injection gun for plastic sticks--Qty-=01 No.
18. Energizing stick--Qty-100 x 1 =100 Nos.(Considering 3/4" X 4" long sticks +/- 100 sticks for one complete Wellhead set (All three sections), however Bidder will quote enough sticks to energize one (01) complete wellhead set (All three sections).



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19. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
20. Wear bushing (Bore size suitable for 17-1/2" bit), low alloy steel or equivalent body material for casing head housing 20-3/4" - 3000 psi. Qty 01 = 01 No.
21. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 20-3/4" - 3000 psi. Qty = 01 No.
22. Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing spool 20-3/4" API-3000 psi API x 13-5/8" - 5,000 psi WP. Qty 01 = 01 No.
23. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 20-3/4" API-3000 psi API x 13-5/8" - 5,000 psi WP Qty = 01 No.
24. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -5,000 psi x 11"- 5,000 psi WP Qty 01 = 01 No.
25. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -5,000 psi x 11"- 5,000 psi WP Qty = 01 No.


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13-5/8" X 11" – 5000 PSI
WELL HEAD ASSEMBLIES, QTY = 01 SET
GROUP-F

SECTION-A:

- 1.1 Casing Head Housing (forged material) 13-5/8" API-3000 psi WP, RX-57 x 13-3/8" slip on lock bottom with two 2-1/16" API-5000 psi WP studded outlets with hold down screws for wear bushing as per API 6A, PSL-2, PR-1, Temp Class: U, Material class DD. Qty 01 = 01 No.
- 1.2 API Ring Gasket self-sealing ring RX-57, SS 316, Qty 01 = 01 No.
- 1.3 Casing hanger for 9-5/8" casing automatic slip & seal type (Capacity to hang 9-5/8" casing, 53.5 PPF, P-110, Length +/- 4500 Meters).Qty 01 = 01 No.
- 1.4 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty-02 = 02 Nos.
- 1.5 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 1.6 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 1.7 Nuts 7/8" zinc plated-QTY-16 =16 Nos.
- 1.8 Gasket self-sealing ring RX-24, SS 316. QTY-03 =03 Nos.
- 1.9 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-2, PR-1, Temp class: U, Material class-DD. Qty 01 = 01 No.
- 1.10 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01 = 01 No.
- 1.11 Angled needle Valve , Male X Female with 1/2" NPT - 5000 psi, SS 316, Qty 01 = 01 No.
- 1.12 Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing head housing 13-5/8" - 3000 psi. Qty 01 = 01 No.
- 1.13 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 13-5/8" - 3000 psi. Qty = 01 No.
- 1.14 Studs 1-3/8"x 11"long-Qty-20 =20 Nos.
- 1.15 Nuts Hex 1-3/8" zinc plated-Qty-40 =40 Nos.

SECTION-B:

- 2.1 Spool casing (forged material) 13-5/8" API, 3000 psi W.P. RX-57 flanged bottom x 11" API - 5000 psi W.P. RX-54 flanged Top, with two 2-1/16", API-5000 psi W.P. studded outlets with nuts & with bottom Secondary seal, plastic energizing type for 9-5/8" OD casing with retainer ring and energizing sticks and with hold down screws for wear bushing as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE 0.5. Qty 01 = 01 No.
- 2.2 API Ring Gasket self-sealing ring RX-57, SS 316, Qty 01 = 01 No.
- 2.3 API Ring Gasket self-sealing ring RX-54, SS 316, Qty 01 = 01 No.
- 2.4 Casing hanger for 7" Casing automatic slip & seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters). Qty 01 = 01 No.
- 2.5 Flange companion 2-1/16"- 5000 psi WP x 2" LP. Qty -02 =02 Nos.
- 2.6 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 2.7 Stud 7/8" x 6.5" zinc plated-QTY-8 =08 Nos.
- 2.8 Nuts 7/8" zinc plated-QTY-16 =16 Nos.
- 2.9 Gasket self-sealing ring RX-24, SS 316. QTY-03 =03 Nos.
- 2.10 Valve gate forged 2-1/16"-5000 psi WP, double flanged including hand wheel as per API 6A, PSL-3, PR-2, Temp class: U, Material class-EE-0.5. Qty 01 = 01 No.
- 2.11 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case. Qty 01= 01 No.
- 2.12 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316. Qty 01= 01 No.
- 2.13 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -3,000 psi x 11"- 5,000 psi WP Qty 01 = 01 No.
- 2.14 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -3,000 psi x 11"- 5,000 psi WP Qty = 01 No.
- 2.15 Studs 1-7/8" x 15" zinc plated. Qty-12 =12 Nos
- 2.16 Nuts 1-7/8" zinc plated. Qty-24 =24 Nos.



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SECTION-C: (LOOSE SPARE PARTS, AS A BACKUP)

1. Spare Set of 13-3/8" OD Casing Seal, Qty = 01 No.
2. API Ring Gasket self-sealing ring RX-57, SS 316, Qty = 03 Nos.
3. API Gasket self-sealing ring RX-24, SS 316. QTY=03 Nos.
4. Spare seal rings for casing hanger 9-5/8" at item No. 1.3. Qty = 1 No.
5. Spare seal rings for Combination BOP test plug & wear bushing R & R tool at Sr # 1.13. QTY=03 Nos.
6. API Ring Gasket self-sealing ring RX-54, SS 316, Qty = 01 No.
7. Secondary seal assembly, for 9-5/8" casing with retainer/ring energizing stick-Qty=01 No.
8. Spare seal rings for casing hanger 7" at item at S. No. 2.4-Qty=01 No.
9. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#2.14Qty=03 Nos.
10. Manual Injection gun for plastic sticks--Qty=01 No.
11. Energizing stick--Qty-100 x 1 =100 Nos.(Considering 3/4" x 4" long sticks +/- 100 sticks for one complete Wellhead set (All two sections), however Bidder will quote enough sticks to energize one (01) complete wellhead set (All two sections).
12. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
13. Wear bushing (Bore size suitable for 12-1/4" bit), low alloy steel or equivalent body material for casing head housing 13-5/8" - 3000 psi. Qty 01 = 01 No.
14. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 13-5/8" - 3000 psi. Qty = 01 No.
15. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing spool 13-5/8" -3,000 psi x 11"- 5,000 psi WP Qty 01 = 01 No.
16. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing spool 13-5/8" -3,000 psi x 11"- 5,000 psi WP Qty = 01 No.


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11" x 7-1/16"- 5000 PSI
WP WELL HEADS, QTY = 01 SET

GROUP-G

- 1.1 Casing Head Housing (forged material) 11"-5000 psi WP, RX-54 x 9-5/8" slip on lock bottom with two 2" LP outlets with hold down screws for wear bushing along with bottom seal plastic energizing type as per API specs 6A, PSL-3, PR-2 Temp class-U, Material class-EE-0.5. Qty 01 = 01 No.
- 1.2 API Ring Gasket self-sealing ring RX-54, SS 316, Qty 01 = 01 No.
- 1.3 Casing hanger for 7" casing automatic slip & seal type (Capacity to hang 7" casing, 35 PPF, P-110, Length +/- 5500 Meters). Qty 01 = 01 No.
- 1.4 Bull plug 2" LP x 4" long, 1/2" tapped NPT with Blind Plug. Qty 02 = 02 Nos.
- 1.5 Nipple 2" x 6" LP. Qty 01 = 01 No
- 1.6 Valve gate 2-1/16" - 5000 psi WP 2" LP x 2" LP including hand wheel, as per API specs 6A, PSL-3, PR-2 Tem class-U, Material class-EE-0.5. Qty 01 = 01 No.
- 1.7 Pressure gauge dia 4-1/2", face 0-5000 psi stainless steel case 1/2" NPT connection. Qty 01= 01 No.
- 1.8 Angled needle Valve, Male X Female with 1/2" NPT - 5000 psi, SS 316. Qty 01 = 01 No.
- 1.9 Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing head housing 11"- 5,000 psi WP Qty 01 = 01 No.
- 1.10 Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 11"- 5,000 psi WP Qty = 01 No.
- 1.11 Studs 1-7/8" x 15" zinc plated. Qty 12 = 12 Nos.
- 1.12 Nuts Hex 7/8" zinc plated. Qty 24 = 24 Nos.

SECTION-B: (LOOSE SPARE PARTS, AS A BACKUP)

1. Spare Set of 9-5/8" OD Casing Seal, Qty = 01 No.
2. API Ring Gasket self-sealing ring RX-54, SS 316, Qty = 01 No.
3. Spare seal rings for casing hanger 7" at item at S. No. 1.3-Qty=01 No.
4. Seal rings for Combination BOP test plug & wear bushing R&R tool for Sr#1.10 Qty=03 Nos.
5. Manual Injection gun for plastic sticks--Qty=01 No.
6. Energizing stick--Qty-100 x 1 =100 Nos.(Considering 3/4" x 4" long sticks +/- 100 sticks for one complete Wellhead set, however Bidder will quote enough sticks to energize one (01) complete wellhead sets.
7. Hydraulic plastic energizing gun complete set with hydraulic pump=01 No.
8. Wear bushing (Bore size suitable for 8-1/2" bit), low alloy steel or equivalent body material for casing head housing 11"- 5,000 psi WP Qty 01 = 01 No.
9. Combination BOP test plug, wear bushing running/ retrieving tool having 4-1/2" IF Box X Pin connection (both ends) with provision of tong neck for casing head housing 11"- 5,000 psi WP Qty = 01 No.


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