




PREQUALIFICATION OF ALL SIZES SEAMLESS STEEL/ERW CASING/SURFACE CONDUCTOR PIPES ALONG WITH CASING ACCESSORIES MANUFACTURERS/BIDDERS/SUPPLIERS FOR A PERIOD OF THREE (03) YEARS ON AS AND WHEN REQUIRED BASIS AGAINST CALL-OUT PURCHASE ORDERS

The Basic concept is to prequalify World renowned Casing Pipes Manufacturers/Bidders/Suppliers mills for purchase of all sizes & Types Seamless steel Casing/Surface Conductor Pipes along with Casing Accessories for a period of three (03) years on as and when required basis against call-out purchase orders.

TERMS OF REFERENCE (TOR)

Bidder to comply following mandatory requirements for acceptance:

1. Manufacturers/Bidders/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 Bidders during the 03 year prequalification period for any type & size of Seamless steel/ERW/Conductor casing pipes & Casing Accessories (x-overs, circulating heads, pup joints, Float shoes, Float collars, Top & Bottom Cement plugs, Centralizers, Stop collars, Stab-in stingers, Lifting subs etc.) on as and when required basis.
2. The 03 years period of prequalified Manufacturers/Bidders will start from the issuance date of notification for Prequalification of successful Manufacturers/Bidders/Suppliers.
3. OGDCL will place call-out purchase orders to the financially lowest Manufacturers/Bidders/Suppliers against each requirement issued to Prequalified Manufacturers/Bidders/Suppliers on as and when required basis during the three years prequalification period.
4. Bidder will study terms of reference/scope of work along with the 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/SCOPE OF WORK Documents. In the event that any errors or omissions are discovered, prospective Bidder/Bidders shall immediately notify Company. Prospective Bidder/Bidders will not make any assumption in preparation of its quotation/Bid and must seek appropriate clarification from COMPANY (OGDCL).
6. Manufacturers/Bidders/Suppliers will be prequalified for a period of 03 years against each Group of Casing/surface conductor pipes along with Casing Accessories defined at Annexure "B".(Group-A to Group-K).
7. The evaluation criteria will be each group wise (Group-A to Group-K). The order will be placed to the respective Manufacturer/Bidder/Supplier declared prequalified and stands financially lowest against each group. However OGDCL may ask from prequalified Bidders/Manufacturers/Suppliers only to quote any one or all items of the Casing Groups (Groups A to K) as per its operational requirement on as and when required basis during the 3 year tenure of prequalification.
8. 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 K).
9. Casing Pipe Manufacturers having API 5CT PSL-3 (Group 1 to 4) AND/OR API 5L (For Surface Conductor Pipes (Group-K Only) valid & last consecutive 10 years certificates for Manufacturing seamless steel/ERW casing threaded and coupled are eligible to Bid directly or through Bidders/Suppliers. 10 years period will be verified from API Composite List issued in January, 2010 under category of **Manufacturer of Casing Threaded & Coupled**.
10. For the groups having the requirement of Premium thread casing, the same premium connection to be offered against each item of that group is mandatory.
11. Data sheets and specifications of Casing/Surface Conductor Casing Pipes & Cross overs quoted against casing groups (Group A to K) to be provided by the Bidder/Manufacturer/Suppliers along with Bid.
12. The LOI/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 OGDCL has opened Techno-commercial Bids of the prequalified Manufacturers before the expiry of the 3 year tenure of prequalification.


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PREQUALIFICATION OF ALL SIZES SEAMLESS STEEL/ERW CASING/CONDUCTOR PIPES ALONG WITH CASING ACCESSORIES MANUFACTURERS

13. In order to prequalify a bidder /Manufacturer/Supplier, it must obtain overall 80 % marks in the "Technical Evaluation Criteria" defined at Annexure "A" with respect to its quoted Casing Groups (Group A to Group K).
14. Delivery allowance of +0 & -3% for Casing Pipes can be allowed, however the payment will be made as per the actual meterage of Casing supplied. More than -3 % delivery allowance is not acceptable.
15. Casing Pipes & X-Overs should be provided with mills protective coating on the outside & to be shipped as per API handling procedures.
16. The casing pipes & Casing accessories (x-overs, circulating heads, pup joints, Float shoes, Float collars, Top & Bottom Cement plugs, Centralizers, Stop collars, Stab-in stingers, Lifting subs etc.) must be brand new & unused. Confirmation to this effect is required in the Bid.
17. The successful bidder will be required to furnish mill inspection certificates for casing pipes & Casing Accessories with shipping documents. Confirmation to this effect must be provided in the Bid.
18. Warranty/Guarantee letter for a period of 18 months from Manufacturer for supplied casing pipes & Casing Accessories will be required as per issued Purchase orders during the 3 year tenure of Prequalification period.
19. Original Brochure or brochure on CD/USB format of the manufacturer(s) containing technical literature/specs sheets specifying physical/performance properties of quoted casing pipes & Casing Accessories must be submitted with the Bid.
20. Third party inspection by internationally reputed inspection company will be required for each consignment against the issued purchase order. 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. Visual inspection for any defects
 - b. Verification that all Casing & accessories are brand new and unused.
 - c. Verification that all the materials (quantity & specifications) & documents are in accordance with Purchase order & API Specifications.
 - d. Full body ultrasonic inspection where applicable.
 - e. Visual thread inspection.
 - f. Full body API drift where applicable.
 - g. Verification of mill test certificates.
21. Manufacturer/Bidder/Supplier must submit letter for clean acceptance of all OGDCL Tender documents terms & conditions without any exceptions along with the bid.


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


S. No	Description	Allotted Points
1	Manufacturers' International Market Experience of supplying Casing/Conductor Casing pipes & Casing 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	5
	Support /representative office outside Pakistan	0
3	Mandatory: The Manufacturers quoted plant / plants for casing pipe manufacturing & threading must have valid & last Consecutive 10 years back API 5CT with PSL-3 (Group 1 to 4) certification as Manufacturer of Casing Threaded & Coupled (no breaks will be acceptable) for manufacturing of Seamless steel casing pipes threaded & coupled in Casing Groups 1, 2, 3 & 4. Note: 10 years period will be verified from API Composite List issued in January, 2010. * A documentary evidence to be submitted along with the Bid.	20
	≥10 years	20
	< 10 years	Disqualify
4	Establishment of Manufacturer *A documentary evidence/certificate of establishment to be submitted along with the Bid.	10
	Above 20 years	10
	Between 15 - 20 years	5
	Less than 15 years	0
5	Mandatory: Manufacturer of mother casing pipes & its threader should be same entity. *A documentary evidence to be submitted along with the Bid.	10
	Manufacturer of Casing Pipes & its threader are same	10
	Manufacturer of Casing Pipes & its threader are different	Disqualify
6	Supply of Casing Pipes *Unpriced copies of at least 05 different E & P companies of other than manufacturer's own country purchase orders sold during the last ten (10) years starting from year 2010 for below mentioned Size, grade & poundage of casing pipes to be submitted with the Bid. * 01 mark for each submitted PO with respect to exact size, grade & Poundage. Irrelevant sizes, grade & Poundage PO's will not be considered.	120
	SEAMLESS STEEL CASING PIPES DESCRIPTION-	
6A	24-1/2", J/K-55, 165 / 140 PPF (GROUP A)	5
6B	20", J/K-55, 106.5/133 PPF (GROUP B)	5
6C	18-5/8", P-110, 139 / 136 PPF (GROUP C)	5
6D	14", P-110, 114 PPF (GROUP D)	5
6E	13-3/8", HIGH COLLAPSE, 95/110 KSI, 72 PPF (GROUP E)	5
	13-3/8", P-110, 72 PPF (GROUP E)	5
	13-3/8", N-80Q, 68 PPF (GROUP E)	5
6F	9-7/8", 66.4 PPF, 125 KSI, (GROUP F)	5

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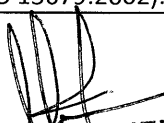
	9-5/8", HIGH COLLAPSE, 110/125 KSI, 53.5 PPF (GROUP F)	5
	9-5/8", P-110, 53.5 PPF (GROUP F)	5
	9-5/8", P-110/N-80Q, 47 PPF (GROUP F)	5
6G	7", HIGH COLLAPSE, 110/125 KSI, 35 PPF (GROUP G)	5
	7", 125/140 KSI, 32 PPF (GROUP G)	5
	7", P-110/N-80Q, 32 PPF (GROUP G)	5
6H	5", HIGH COLLAPSE, 18 PPF, 110/125 KSI, (GROUP H)	5
	5", P-110, 18 PPF (GROUP H)	5
6I	4-1/2", 17 PPF, 110/125 KSI, CHROME CASING (GROUP I)	5
6J	13-5/8", API/HC Grades, Flush/Semi-Flush (Group J)	5
	11-3/4", API/HC Grades, Flush/Semi-Flush (Group J)	5
	9-7/8", API/HC Grades, Flush/Semi-Flush (Group J)	5
	9-5/8", API/HC Grades, Flush/Semi-Flush (Group J)	5
6K	36" Surface Conductor Casing as per API 5L (Group K)	5
	30" Surface Conductor Casing as per API 5L (Group K)	5
	20" Surface Conductor Casing as per API 5L (Group K)	5
7	Mandatory: Supply Record * A documentary evidence/Purchase Orders to be submitted along with the Bid	5
	Quoted Casing/Surface conductor Pipes supplied to 5 E & P Companies (having origin other than Manufacturer's own country) till tender closing date.	5
	Quoted Casing/Surface conductor pipes supplied to < 5 E & P Companies (having origin other than Manufacturer's own country) till tender closing date.	Disqualify
8	Offered Delivery Time to Karachi by Sea after Order Confirmation (for Manufacturing on Order, new Roll)	10
	≤ 4 Months	10
	4 - 6 Months	5
	> 6 and < 9 Months	0
9	Confirmation that Manufacturer has independent R&D facility * A documentary evidence to be supplied with the Bid.	5
	YES	5
	NO	0
10	CASING Design/Optimization Engineer (Manufacturer to submit CV'S)	5
	≥5 years' Experience with Engineering Degree	5
	< 5 years with Non-Engineering Degree	0
11	HTHP/HORIZONTAL WELLS CASING (FOR GROUPS F,G, H & I ONLY) (Manufacturers must have supplied Casing pipes for HTHP & Horizontal wells internationally with challenging collapse, burst & torques requirement)	5
	Unpriced copies of supplied casing pipes with data sheet , Customer name & Details	5
	No Supply record	0
12	Manufacturer's/ Bidder's financial standing for the last 05 years *Annual Sale of last five years along with last 5 years audited financial reports to be submitted along with the Bid.	10
	≥50 Million USD per year	10
	>20 AND <50 Million USD per year	5
	<20 Million USD per year	0
13	Mandatory: Documentary evidence of Manufacturer regular Casing supply record to the major E & P Companies like Shell, BP, ExxonMobil, Chevron, ENI, OMV, PPL etc during last 10 years. Supply record of Casing Pipe Manufacturer will be required.	20 (10+10)


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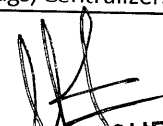
	(Documentary evidence to prove the equivalent stature of E & P Company other than specified above will be required along with bid, to ascertain the equivalency of E & P Company other than specified above will be OGDCL sole discretion). * Manufacturer to provide last consecutive 10 year's sale record on yearly basis starting from year 2010 against each quoted Group.	
13 (E TO I)	Supplied more than 20,000 meters casing each year starting from year 2010 to 2019 against each Casing Groups from Group E to Group I (i.e. for 13-3/8", 9-7/8", 9-5/8", 7", 5" & 4-1/2" Casing sizes)	10
	Supplied Casing > 15,000 meters but < 20,000 Meters (for Group E to Group I)	5
	Supply record < 15,000 M (Group E to Group I) in any year from 2010 to 2019	Disqualify
13 (A TO D & J)	Supplied more than 5,000 meters casing each year starting from year 2010 to 2019 against each Casing Groups from Group A to Groups D & J (i.e. for 24-1/2", 20", 18-5/8", 14", 13-5/8" & 11-3/4", 9-7/8" (Group-J) & 9-5/8" (Group-J) Casing sizes)	10
	Supplied Casing > 4,000 meters but < 5,000 Meters (for Group A to Groups D & J)	5
	Supply record < 4,000 Meters (for Group A to Groups D & J) in any year from 2010 to 2019	Disqualify
14	Mandatory: Satisfactory performance certificates for each quoted item casing pipes (for exact OD, grade & poundage) issued by authorized officials of at least 5 different multinational E&P companies like Exxon, PDO, KOC, SHELL, BP, TOTAL, ENI, OMV, MOL, PPL etc or equivalent stature E & P companies (not belonging to the manufacturer's own country) must be provided with the bid. The certificates must be on the company letterhead and should indicate the Name & Designation of the signing authority along with his complete contact details including his official email address in order to verify the same. Certificates issued by supply houses will not be considered. (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).	20
	5 Satisfactory Performance certificates provided for each quoted item Casing Pipes	20
	In case Manufacturer/Bidder had supplied all the quoted items to OGDCL then in house (OGDCL) satisfactory performance will be considered against each quoted item.	20
	Less than 5 satisfactory performance certificates provided or in house (OGDCL) unsatisfactory performance	Disqualify
15	Mandatory: (FOR GROUP F, G, H, I & J ONLY) A. All offered Threaded & Coupled Premium Connections for offered Casing Pipes against Group F, Group G & Group I, must be qualified to CAL-IV of API 5C5:2017 (Recommended Practice for testing casing & tubing connection). The Manufacturer is required to submit the qualified test reports of required Casing specifications as in Group F, G & I in exact OD, PPF, Yield & Connection. In case if Manufacturer takes benefit from Interpolation & Extrapolation considerations as per Annexure F of API 5C5:2017, the Manufacturer must provide copies of test reports in accordance to Annexure F. Any deviation in this regard is not acceptable. All documentary evidence to this effect must be submitted with the Bid.	25
	B. All offered Flush/Semi-Flush Premium Connections for offered Casing Pipes must be qualified to CAL-II of API 5C5:2017 (Group H & J only)	
	Offered T&C Premium connection against Group F, G & I is qualified to CAL-IV (API 5C5:2017) & Flush/Semi-Flush Premium Connections against Group H & J are qualified to CAL-II (API 5C5:2017).	25
	Offered T&C Premium connection against Group F, G & I is qualified to CAL-IV of (ISO 13679:2002)(Annexure G) & Flush/Semi-Flush Premium Connections against Group H & J are qualified to CAL-II (ISO 13679:2002).	15


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	Offered T&C Premium connection against Group F, G & I is qualified to CAL-IV other than API 5C5:2017/ISO 13679:2002 & Flush Connections against Group H & J are qualified to CAL-II other than API 5C5:2017/ISO 13679:2002.	Disqualify
16	Mandatory: (FOR GROUP F, G & I ONLY)	15
	All offered Thread & Coupled Premium Connections (for Group F, G & I) tensile, compression, collapse and burst rating efficiencies must be 100 % rated to pipe body. *Technical Data sheet for all the quoted Casing Pipes containing performance efficiencies of pipe body & connections to be submitted with bid.	
	All quoted Casing Pipes Connections in Group F, G & I with 100% ratings efficiency as pipe body.	15
	Quoted Casing Pipes Connections in Group F, G & I with less than 100% compression rating efficiency as pipe body	Disqualify
17	Mandatory: (FOR GROUP H ONLY)	15
	The Burst Collapse rating of the Quoted Flush Premium Thread Connections for Group H (5" CASING) must be 100 % equal or exceed in performance as pipe body and the tensile & compression ratings must be minimum 60 % in performance as pipe body. * Technical Data sheet for quoted Casing Pipe containing performance efficiencies of pipe body & connections to be submitted with bid.	
	Tension & compression 60 % or more	15
	Tension or compression less than 60% rating	Disqualify
	Mandatory: (FOR GROUP I ONLY)	10
Manufacturers quoted plant for Group I (Chrome Casing) must have valid Certification API 5CRA for Group I only.		
18	Valid API 5CRA	10
	No Certification of API 5CRA	Disqualify
	Mandatory: (FOR GROUP K ONLY)	10
	Manufacturers quoted plant for Group K (Surface Conductor Casing) must have valid and 10 Years back Certification API 5L for Group K only.	
19	Valid and 10 Years back API 5L	10
	Less than 10 Years of API 5L	Disqualify
	Mandatory: (FOR GROUP J ONLY)	10
The Burst Collapse rating of the Quoted Flush/ Semi-Flush Premium Thread Connections for Group J (13-5/8", 11-3/4", 9-7/8" & 9-5/8" CASINGS) must be 60 % equal or exceed in performance as pipe body and the tensile & compression ratings must be minimum 60 % in performance as pipe body. * Technical Data sheet for quoted Casing Pipe containing performance efficiencies of pipe body & connections to be submitted with bid.		
Tension & compression 60 % or more	10	
20	Tension or compression less than 60% rating	Disqualify
	Only for Cross overs & Casing Accessories the Manufacturer/Bidder can quote different threader, In this case the threader (for Cross overs & Casing Accessories only) must have experience in cutting the threads along with valid API 5CT certificates as threader and Valid license for quoted threads.	10
	≥ 10 years API 5CT as threader with Valid license for quoted threads	10
	>5 years but less than 10 years API 5CT as threader with Valid license for quoted threads	5
	<5years API 5CT as threader or No Valid license for quoted threads	0
21	Only for Casing Accessories (x-overs, circulating heads, pup joints, Float shoes, Float collars, Top & Bottom Cement plugs, Centralizers, Stop collars, Stab-in stingers	15


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	etc.) Manufacturer /Bidder will quote these accessories from M/s Weatherford, M/s TOPCO, Canada, M/s Davis Lynch, USA, M/s Halliburton or equivalent stature company . (Documentary evidence to prove the equivalent stature of any other quoted Company other than specified above will be required along with bid, to ascertain the equivalency of quoted Company other than specified above will be OGDCL sole discretion).	
	Casing Accessories quoted from M/s Weatherford, M/s TOPCO & M/s Davis Lynch (Forum, USA) (Authority letter from said quoted Manufacturer to provide casing accessories during the 3 year tenure of prequalification will be required).	15
	Casing Accessories quoted from equivalent stature company other than Weatherford, Topco & Davis Lynch/Forum (Note: To quote from equivalent company , 10 unpriced copies of different E & P companies from other than Manufacturers own country along with 05 Nos satisfactory performance certificates from different E & P companies (other than Manufacturers own country) against each quoted Casing Accessories item will be required)	10
	Casing Accessories quoted from any other company not equivalent to Weatherford, Topco & Davis Lynch/Forum	0
23	Total Tubular Management Projects *Documentary evidences with details to be provided with Bid.	5
	Manufacturer/Bidder have successfully executed 5 or more than 5 Total Tubular Management projects.	5
	Completed > 3 and < 5 projects	3
	Completed less than 3 projects	0
24	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		375

NOTES:

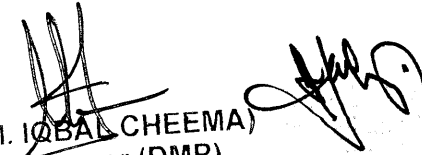
The overall minimum score required for technical acceptance is 80% for all Groups. However, Technical scoring criteria defined for specific groups will be evaluated for each quoted group by the Bidders and 80 % marks will be calculated as per table given as under:

Bidders/Manufacturers must fulfil all "Mandatory" clauses of scoring criteria to prequalify, however, bidders/manufacturers participating in partial Groups must obtain 80% marks to qualify as per below table: -

TECHNICAL SCORING CRITERIA (GROUP WISE)

Groups	Total Marks	Minimum Qualifying Marks Inclusive of Mandatory clauses Marks (80%)
Group A	160	128
Group B	160	128
Group C	160	128
Group D	160	128
Group E	170	136
Group F	220	176
Group G	215	172
Group H	210	168
Group I	215	172
Group J	210	168
Group K*	70	56

* Mandatory clauses are not applicable on Group K (except clause 7 & 19), For Group K Applicable Technical Evaluation Scoring Clauses are 1, 2, 4, 6K, 7, 8, 19 & 24.


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DETAIL DESCRIPTION OF CASING PIPES, CROSS OVERS & CASING ACCESSORIES

Group-A (24-1/2" Casing & Accessories)

Sr#.	Description
1.	24-1/2" OD seamless steel casing pipes conforming to API specs 5CT, latest edition, Grade K-55, Weight 165 lbs/ft., 3TPI thread connection, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 22" bit). Delivery allowance -3 % in Qty.
2.	24-1/2" FLOAT SHOE, AUTO FILL, SINGLE VALVE STAB IN TYPE, K-55, 165 PPF, 3 TPI BOX UP CONNECTION, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 22" BIT).
3.	STAB IN UNIT /STINGER FOR 24-1/2" STAB IN FLOAT SHOES WITH 4-1/2" IF CONNECTION. TO BE RUN WITH 5" OD, 19.5 PPF DRILL PIPES
4.	SPARE SEAL KIT (O-RINGS) FOR STAB-IN STINGER (FOR 24-1/2" STAB IN FLOAT SHOES, 4-1/2" IF CONNECTION, TO BE RUN WITH 5" OD, 19.5 PPF DRILL PIPES), (04 O-RINGS = 1 SET OR AS PER DESIGN).
5.	CENTRALIZERS FOR 24-1/2" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW TYPE. (24-1/2" CASING X 28" OPEN HOLE).
6.	STOP COLLARS, FOR 24-1/2" CASING, LATCH-ON HINGED TYPE WITH SPIRAL LOCKING PINS. (24-1/2" CASING X 28" OPEN HOLE).
7.	CENTRALIZERS FOR STAB IN STINGER/UNIT TO BE RUN ON 5" DRILL PIPE IN 24-1/2", K-55, 165 PPF CASING. LATCH ON HINGED TYPE, LAP-WELDED SPRING BOW TYPE 7R. (5" X 24-1/2").
8.	STOP COLLARS, SIZE 5", LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS, TO BE USED FOR CENTRALIZERS FOR STAB IN STINGER. (5" X 24-1/2").
9.	CIRCULATING HEAD, 24-1/2", 165 PPF, PIN CONNECTION OFFERED AT SR # 01 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 55 KSI MYS, LENGTH 2 -3 FEET.


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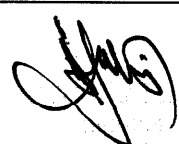
Group-B: (20" Casing & Accessories)

Sr#.	Description
1.	20" OD seamless steel casing pipes conforming to API specs 5CT, latest edition, Grade K-55, Weight 106.5 lbs/ft., 3TPI thread connection, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 17-1/2" bit). Delivery allowance -3 % in Qty.
2.	20" FLOAT SHOE, AUTO FILL, SINGLE VALVE, STAB IN TYPE, K-55, 106.5 PPF, 3 TPI BOX UP CONNECTION, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 17.5" BIT).
3.	STAB IN UNIT /STINGER FOR 20" STAB IN FLOAT SHOES WITH 4-1/2" IF CONNECTION. TO BE RUN WITH 5" OD, 19.5 PPF DRILL PIPES.
4.	SPARE SEAL KIT (O-RINGS) FOR STAB-IN STINGER (FOR 20" STAB IN FLOAT SHOES, 4-1/2" IF CONNECTION, TO BE RUN WITH 5" OD, 19.5 PPF DRILL PIPES), (04 O-RINGS = 1 SET OR AS PER DESIGN).
5.	CENTRALIZERS FOR 20" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW TYPE. (20" CASING X 26" OPEN HOLE).
6.	STOP COLLARS, FOR 20" CASING, LATCH-ON HINGED TYPE WITH SPIRAL LOCKING PINS. (20" CASING X 26" OPEN HOLE).
7.	CENTRALIZERS FOR STAB IN STINGER/UNIT TO BE RUN ON 5" DRILL PIPE IN 20", K-55, 106.5 PPF CASING. LATCH ON HINGED TYPE, LAP-WELDED SPRING BOW TYPE 7R. (5" X 20").
8.	STOP COLLARS, SIZE 5", LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS, TO BE USED FOR CENTRALIZERS FOR STAB IN STINGER. (5" X 20").
9.	CIRCULATING HEAD, 20", 106.5 PPF, PIN CONNECTION OFFERED AT SR # 01 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 55 KSI MYS, LENGTH 2 -3 FEET.

Group-C: (18-5/8" Casing & Accessories)

Sr#.	Description
1.	18-5/8" OD seamless steel casing pipes conforming to API specs 5CT, latest edition, Grade P-110, Weight 139 lbs/ft., 3TPI thread connection, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 17" bit). Delivery allowance -3 % in Qty.
2.	18-5/8" FLOAT SHOE, AUTO FILL, SINGLE VALVE, STAB IN TYPE, P-110, 139 PPF, 3 TPI BOX UP CONNECTION, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 17" BIT).
3.	STAB IN UNIT /STINGER FOR 18-5/8" STAB IN FLOAT SHOES WITH 4-1/2" IF CONNECTION. TO BE RUN WITH 5" OD, 19.5 PPF DRILL PIPES.
4.	SPARE SEAL KIT (O-RINGS) FOR STAB-IN STINGER (FOR 18-5/8" STAB IN FLOAT SHOES, 4-1/2" IF CONNECTION, TO BE RUN WITH 5" OD, 19.5 PPF DRILL PIPES), (04 O-RINGS = 1 SET OR AS PER DESIGN).
5.	CENTRALIZERS FOR 18-5/8" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW TYPE. (18-5/8" CASING X 22" OPEN HOLE).


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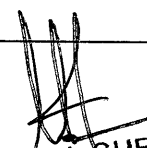


PREQUALIFICATION OF ALL SIZES SEAMLESS STEEL/ERW CASING/CONDUCTOR PIPES ALONG WITH CASING ACCESSORIES MANUFACTURERS

6.	STOP COLLARS, FOR 18-5/8" CASING, LATCH-ON HINGED TYPE WITH SPIRAL LOCKING PINS. (18-5/8" CASING X 22" OPEN HOLE).
7.	CENTRALIZERS FOR STAB IN STINGER/UNIT TO BE RUN ON 5" DRILL PIPE IN 18-5/8", P-110, 139 PPF CASING. LATCH ON HINGED TYPE, LAP-WELDED SPRING BOW TYPE 7R. (5" X 18-5/8").
8.	STOP COLLARS, SIZE 5", LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS, TO BE USED FOR CENTRALIZERS FOR STAB IN STINGER. (5" X 18-5/8").
9.	CIRCULATING HEAD, 18-5/8", 139 PPF, PIN CONNECTION OFFERED AT SR # 01 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.

Group-D: (14" CASING & ACCESSORIES)

Sr#.	Description
1.	14" OD seamless steel casing pipe conforming to API specs 5CT , latest edition, Grade P-110, Weight 114 lbs/ft., 3- 4 TPI thread connection,R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit). Delivery allowance -3 % in Qty.
2.	Cross over seamless steel casing pipe conforming to API specs 5CT, 14" , 114 PPF, P-110 3-4 TPI Pin x 13-3/8", 72 PPF,P-110, 3-4 TPI Box, overall length 2 Meter with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit).
3.	Cross over seamless steel casing pipe conforming to API specs 5CT, 14" , 114 PPF, P-110 3-4 TPI Pin x 13-3/8", 72 PPF,P-110, BTC Box, overall length 2 Meter with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted 12-1/4" bit).
4.	Cross over seamless steel casing pipe conforming to API specs 5CT, 14" , 114 PPF, P-110, 3-4 TPI Pin x 14",P-110, 114 PPF BTC BOX, overall length 2 Meter with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit).
5.	Cross over seamless steel casing pipe conforming to API specs 5CT , latest edition, 14" , 114 PPF, P-110, BTC Pin x 14", 114 PPF,P-110, 3-4 TPI Box, overall length 2 Meter with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit).
6.	14" FLOAT SHOE, P-110, 114 PPF, 3-4 TPI BOX UP CONNECTION, DIFFERENTIAL FILL UP CIRCULATING DOUBLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 12.25" BIT).
7.	14" FLOAT COLLAR, P-110, 114 PPF, 3-4 TPI BOX UP X PIN DOWN CONNECTION, DIFFERENTIAL FILL UP CIRCULATING SINGLE FLAPPER VALVE, WITH NON-ROTATING PROFILE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 12.25" BIT).
8.	NON-ROTATING TOP DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC/POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 14" CASING RANGE 82.50 - 138.84 PPF & IN 13-3/8" CASING RANGE 48 -96 PPF.



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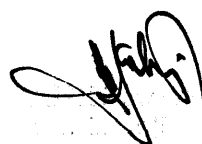


9.	NON-ROTATING BOTTOM DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 14" CASING RANGE 82.50 - 138.84 PPF & IN 13-3/8" CASING RANGE 48 -96 PPF.
10.	CENTRALIZERS FOR 14" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW TYPE. (14" CASING X 17/17-1/2" OPEN HOLE).
11.	STOP COLLARS, FOR 14" CASING, LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS. (14" CASING X 17/17-1/2" OPEN HOLE).
12.	CIRCULATING HEAD, 14", 114 PPF, PIN CONNECTION OFFERED AT SR # 01 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.

Group-E: (13-3/8" Casing & Accessories)

Sr#.	Description
1.	13-3/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, High Collapse grade (Collapse Pressure: 3900 Psi (Minimum), grade 110 ksi, Weight 72 PPF, 3-4 TPI connection, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit). Delivery allowance -3 % in Qty.
2.	13-3/8" OD seamless steel casing pipe conforming to API specs 5CT, latest edition, Grade P-110, Weight 72 lbs/ft., 3-4 TPI thread connection, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit). Delivery allowance -3 % in Qty.
3.	13-3/8" OD seamless steel casing pipe conforming to API specs 5CT, latest edition, Grade N-80Q, Weight 68 lbs/ft., 3-4 TPI thread connection, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit). Delivery allowance -3 % in Qty.
4.	Cross over seamless steel casing pipe conforming to API specs 5CT , latest edition, 13-3/8", 72 PPF, P-110 BTC Pin x 13-3/8", 72 PPF, P-110, 3-4 TPI Box, overall length 2 Meter with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit).
5.	Cross over seamless steel casing pipe conforming to API specs 5CT , latest edition, 13-3/8", 72 PPF, P-110 3-4 TPI Pin x 13-3/8", 72 PPF, P-110, BTC Box, overall length 2 Meter with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 12-1/4" bit).
6.	13-3/8" FLOAT SHOE, HIGH COLLAPSE, MAT:Q125, HIGH COLLAPSE, (Min Collapse 3900 PSI), 72 PPF, 3-4 TPI BOX UP CONNECTION, DIFFERENTIAL FILL UP CIRCULATING DOUBLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 12.25" BIT).


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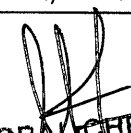




7.	13-3/8" FLOAT COLLAR, HIGH COLLAPSE, MAT:Q125, HIGH COLLAPSE, (Min Collapse 3900 PSI), 72 PPF, 3-4 TPI BOX UP X PIN DOWN CONNECTION, DIFFERENTIAL FILL UP CIRCULATING SINGLE FLAPPER VALVE, WITH NON-ROTATING PROFILE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 12.25" BIT).
8.	NON-ROTATING TOP DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC/POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 14" CASING RANGE 82.50 - 138.84 PPF & IN 13-3/8" CASING RANGE 48 - 96 PPF.
9.	NON-ROTATING BOTTOM DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 14" CASING RANGE 82.50 - 138.84 PPF & IN 13-3/8" CASING RANGE 48 -96 PPF.
10.	CENTRALIZERS FOR 13-3/8" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW TYPE. (13-3/8" CASING X 17/17-1/2" OPEN HOLE).
11.	STOP COLLARS, FOR 13-3/8" CASING, LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS. (13-3/8" CASING X 17/17-1/2" OPEN HOLE).
12	CIRCULATING HEAD, 13-3/8", 72 PPF, PIN CONNECTION OFFERED AT SR # 01 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.

Group-F: (9-7/8" & 9-5/8" Casing & Accessories)


Sr#.	Description
1.	9-7/8" OD (Max OD tolerance + 1.5 %) Seamless Steel Casing Pipes conforming to API specs 5CT, Latest edition, 125 KSI High Collapse grade (Min Collapse & Burst = 15,000 Psi), Weight 66.40 PPF, Premium thread connection, CAL-IV, PSL-3, R-3, Max yield strength 140 ksi, with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 8-1/2" bit).Delivery tolerance -3 % in Qty.
2.	9-5/8" OD Seamless Steel Casing conforming to API specs 5CT, Latest Edition, 125 KSI, High Collapse grade (Min Collapse 11,000 psi, Min Burst 12,000 psi) , Weight 53.5 PPF, Premium thread connection, CAL-IV,PSL-3, Max yield strength140 ksi, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 8-1/2" bit). Delivery tolerance -3 % in Qty.
3.	9-5/8" OD seamless steel casing pipe conforming to API specs 5CT, Latest edition, Grade P-110, Weight 53.5 lbs/ft, Premium thread connection,CAL-IV,PSL-3,R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 8-1/2 " bit).Delivery tolerance -3 % in Qty.
4.	9-5/8" OD seamless steel casing pipe conforming to API specs 5CT, Latest edition, Grade P-110, Weight 47 lbs/ft, Premium thread connection,CAL-IV,PSL-3,R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 8-1/2 "bit). Delivery tolerance -3 % in Qty


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5.	9-7/8" OD (OD Tol = +1.5 % Max) Seamless Steel Casing cross over conforming to API specs 5CT,125 KSI High collapse grade, Weight 66.40 ppf, overall length 2 Meter having pin connection offered at Sr # 1 and 9-5/8", P-110, 53.5 ppf box connection offered at Sr # 1,complete with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 8-1/2" bit).
6.	9-7/8" FLOAT SHOE, MAT: 125/140 KSI HIGH COLLAPSE (MIN. COLLAPSE 15,000 PSI), 66.4 PPF, PREMIUM CONNECTION OFFERED AT SR#01, BOX UP CONNECTION, DIFFERENTIAL FILL UP CIRCULATING DOUBLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 8.5" BIT).
7.	9-7/8" FLOAT COLLAR, MAT : 125/140 KSI HIGH COLLAPSE (MIN. COLLAPSE 15,000 PSI), 66.4 PPF, PREMIUM CONNECTION OFFERED AT SR#01, BOX UP X PIN DOWN CONNECTION, DIFFERENTIAL FILL UP CIRCULATING SINGLE FLAPPER VALVE, WITH NON-ROTATING PROFILE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 8.5" BIT).
8.	NON-ROTATING TOP DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 9-7/8" & 9-5/8" CASING RANGE 32.30 - 70.30 PPF.
9.	NON-ROTATING BOTTOM DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 9-7/8" & 9-5/8" CASING RANGE 32.30 - 70.30 PPF.
10.	CENTRALIZERS FOR 9-7/8" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW/TANDEM RISE/SPIRA GLIDOR TYPE. (9-7/8" CASING X 12.25" OPEN HOLE).
11.	STOP COLLARS, FOR 9-7/8" CASING, LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS. (9-7/8" CASING X 12.25" OPEN HOLE).
12.	9-5/8" FLOAT SHOE, MAT: Q125, HIGH COLLAPSE (MIN. COLLAPSE 11,000 PSI), 53.5 PPF, PREMIUM CONNECTION OFFERED AT SR#01 BOX UP CONNECTION, DIFFERENTIAL FILL UP CIRCULATING DOUBLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 8.5" BIT).
13.	9-5/8" FLOAT COLLAR, MAT : Q125, HIGH COLLAPSE (MIN. COLLAPSE 11,000 PSI), 53.5 PPF, PREMIUM CONNECTION OFFERED AT SR#01 BOX UP X PIN DOWN CONNECTION, DIFFERENTIAL FILL UP CIRCULATING SINGLE FLAPPER VALVE, WITH NON-ROTATING PROFILE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 8.5" BIT).
14.	CENTRALIZERS FOR 9-5/8" CASING, LATCH ON HINGED TYPE, NON-WELDED SPRING BOW/TANDEM RISE/SPIRA GLIDOR TYPE. (9-5/8" CASING X 12.25" OPEN HOLE).
15.	STOP COLLARS, FOR 9-5/8" CASING, LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS. (9-5/8" CASING X 12.25" OPEN HOLE).
16.	CIRCULATING HEAD, 9-7/8", 66.4 PPF, PIN CONNECTION OFFERED AT SR#1 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.
17.	CIRCULATING HEAD, 9-5/8", 53.5 PPF, PIN CONNECTION OFFERED AT SR#1 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.


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**GROUP:G (7" Casing & Accessories)**

Sr#	Description
1.	7" OD Seamless Steel Casing conforming to API specs 5CT, Latest edition, High Collapse grade (Collapse Pressure: 16000 Psi (Minimum), Grade 125 ksi, Weight 35 PPF, with premium thread connection,CAL-IV,PSL-3 ,R-3, Max yield strength 140 ksi, with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drift 5-7/8" bit). Delivery tolerance -3 % in Qty.
2.	7" OD Seamless Steel Casing conforming to API specs 5CT, Latest edition, Grade 140KSI, Weight 32 PPF, Minimum Collapse 14700 psi, Minimum Burst 16,000 Psi, Maximum yield strength 150 KSI, with premium thread connection,CAL-IV,PSL-3 ,R-3, with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drift 6" bit). Delivery tolerance -3 % in Qty.
3.	7" OD seamless steel casing pipe conforming to API specs 5CT, 10 th edition, Grade P-110, Weight 32 lbs/ft, Premium thread connection, CAL-IV, PSL-3, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 6" bit). Delivery tolerance -3 % in Qty
4.	7" FLOAT SHOE, Q-125, 32/35 PPF, PREMIUM CONNECTION OFFERED AT SR#1, BOX UP CONNECTION, DIFFERENTIAL FILL UP CIRCULATING DOUBLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 6"/5-7/8" BIT).
5.	7" FLOAT COLLAR, Q-125, 32/35 PPF, PREMIUM CONNECTION OFFERED AT SR#1, BOX UP X PIN DOWN CONNECTION, DIFFERENTIAL FILL UP CIRCULATING SINGLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 6"/5-7/8" BIT).
6.	NON-ROTATING TOP DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 7" CASING RANGE 32 - 35 PPF.
7.	NON-ROTATING BOTTOM DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 7" CASING RANGE 32 - 35 PPF.
8.	CENTRALIZERS FOR 7" CASING, NON-WELDED SPRING BOW/SPIRA GLIDOR TYPE. (7" CASING X 8.5" OPEN HOLE).
9.	STOP COLLARS, FOR 7" CASING, LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS. (7" CASING X 8.5" OPEN HOLE).
10.	CIRCULATING HEAD, 7", 32/35 PPF, PIN CONNECTION OFFERED AT SR#1 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.



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Group: H (5" Casing & Accessories)

Sr#	Description
1.	5" OD seamless steel casing pipe conforming to API specs 5CT, Latest edition, Weight 18 lbs/ft, Grade High Collapse, 125 ksi, having minimum Collapse pressure 15000 Psi, Max yield strength 140 ksi, Flush premium thread connection having minimum 60 % rating for tension and compression as of body pipe ,PSL-3,R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 4-1/8" bit). Delivery tolerance -3 % in Qty.
2.	5" OD seamless steel casing pipe conforming to API specs 5CT, Latest edition, Weight 18 lbs/ft, Grade P-110, Flush premium thread connection having minimum 60 % rating for tension and compression as of body pipe ,PSL-3,R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 4-1/8" bit). Delivery tolerance -3 % in Qty.
3.	5" OD Seamless Steel casing crossovers conforming to API specs 5CT, grade high Collapse, 125 KSI, weight 18lbs/ft, PSL-3, overall length 2 meter having Pin connection offered at s.no.1 and Box connection VAM FJL / VAF complete with steel /rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (drifted for 4-1/8" bit).
4.	5" OD Seamless Steel casing crossovers conforming to API specs 5CT, grade high Collapse, 125 KSI, weight 18 lbs/ft, PSL-3, overall length 2 meter having Box connection offered at s.no.1 and Pin connection VAM FJL / VAF complete with steel /rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drifted for 4-1/8" bit).
5.	5" FLOAT SHOE, Q-125, 18 PPF, PREMIUM CONNECTION OFFERED AT SR#1, BOX UP CONNECTION, DIFFERENTIAL FILL UP CIRCULATING DOUBLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 4-1/8" BIT).
6.	5" FLOAT COLLAR, Q-125, 18 PPF, PREMIUM CONNECTION OFFERED AT SR#1, BOX UP X PIN DOWN CONNECTION, DIFFERENTIAL FILL UP CIRCULATING SINGLE FLAPPER VALVE, API RP 10 F CAT IIB/IIC, IIIB/IIIC, PDC DRILLABLE (DRIFT 4-1/8" BIT).
7.	NON-ROTATING TOP DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 5" CASING 18 PPF.
8.	NON-ROTATING BOTTOM DISPLACEMENT CEMENTING PLUG, FIVE WIPER DESIGN (HNBR RUBBER), PLASTIC /POLYURETHENE INSERT CORE, PDC DRILLABLE, TO RUN IN 5" CASING 18 PPF.
9.	CENTRALIZERS FOR 5" CASING, NON-WELDED SPRING BOW/SPIRA GLIDOR TYPE. (5" CASING X 6"/5-7/8" OPEN HOLE).
10.	STOP COLLARS, FOR 5" CASING, LATCH ON HINGED TYPE WITH SPIRAL LOCKING PINS. (5" CASING X 6"/5-7/8" OPEN HOLE).
11.	CIRCULATING HEAD, 5", 18 PPF, PIN CONNECTION OFFERED AT SR#1 X 2" FIG 1502 HAMMER UNION FEMALE THREAD PIN CONNECTION, MATERIAL 110 KSI MYS, LENGTH 2 -3 FEET.
12.	LIFTING SUB FOR FLUSH CONNECTIONS



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Group: I (4-1/2" Casing & Accessories)

Sr#.	Description
1.	4-1/2" OD seamless steel casing pipe conforming to API specs 5CT, 10TH EDITION, Weight 17 lbs/ft., Burst rating > 18,000 psi & Collapse rating > 19,000 psi, Material grade suitable for 3.68 % CO ₂ & 5 PPM H ₂ S, (Super 13 Chrome or superior material grade), CAL-IV PREMIUM THREAD CONNECTION, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit (Drift 3.615") Delivery tolerance -3 % in Qty.
2.	4-1/2" OD seamless steel cross overs, chrome material, Box X Pin connection.
3.	4-1/2" FLOAT SHOE Chrome material having quoted connection at Sr #1
4.	4-1/2" FLOAT COLLAR Chrome material having quoted connection at Sr #1
5.	4-1/2" Top Displacement Cementing Plug
6.	4-1/2" Bottom Displacement Cementing Plug
7.	4-1/2" Casing Centralizers Spring Bow/Spira Glider type for 6" open hole
8.	4-1/2" stop collars with nails for quoted Centralizers
9.	4-1/2" Casing circulating head with connection offered at Sr # 1.



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Group-J: (13-5/8", 11-3/4", 9-7/8" & 9-5/8" OD Casing & Accessories)

Sr#.	Description
1A.	13-5/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
1B	13-5/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Semi-Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
2A.	11-3/4" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
2B.	11-3/4" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Semi-Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
3A.	9-7/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
3B.	9-7/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Semi-Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
4A.	9-5/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
4B.	9-5/8" OD Seamless Steel Casing conforming to API specs 5CT, latest edition, API/HC Grades, Semi-Flush connection CAL-II, R-3 with steel/rubber thread protectors on both ends. Proper colour coding on coupling for grade identification and with outside coating for rust protection during transit. Delivery allowance -3 % in Qty.
5.	<u>13-5/8", 11-3/4", 9-7/8" & 9-5/8" OD SIZE CASING ACCESSORIES INCLUDING FLOAT SHOES, FLOAT COLLARS, TOP & BOTTOM CEMENTING PLUGS, CROSS OVERS, CENTRALIZERS & STOP COLLARS, CIRCULATING HEADS & LIFTING SUBS FOR GROUP-J.</u>



(M. IQBAL CHEEMA)
Manager (DMP)
Extn. 3587





Group: K (Surface Conductor Casing)

Sr#.	Description
1.	36" Surface Conductor Casing as per API 5L
2.	30" Surface Conductor Casing as per API 5L
3.	20" Surface Conductor Casing as per API 5L


(M. IQBAL CHEEMA)
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2018/08/22
10:00:00 AM