

**TECHNICAL REQUIREMENTS**

**for procurement of material and technical resources**

**LOT 2 – Annual quantities**

Specification for materials :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Ref. No.** | **Description** | **Dimensions** | **Material of Manufacture** | **Maximum annual quantity** | **UoM** | **Quality Standard** |
| **Section 1** | | | | | | |
| 1 | STRAIGHT NON-WELD BOW CENTRALIZER 20INC  OD= 26 ½ INC | 20 x 26 ½ INC |  | 200 | pcs | API spec.10D |
| 2 | CENTRALIZER SPIRAGLIDER 5 INC x 5 3/4 INC | 5 INC x 5 ¾ INC |  | 400 | pcs |  |
| 3 | NON-WELD POSITIVE CENTRALIZER 13 3/8 INC OD= 464mm | 13 3/8 INC OD=464mm |  | 300 | pcs |  |
| 4 | NON-WELD POSITIVE CENTRALIZER 9 5/8 INC OD= 308mm | 9 5/8 INC OD=308mm |  | 500 | pcs |  |
| 5 | STRAIGHT NON-WELD BOW CENTRALIZER 13 3/8 INC  OD= 467mm | 13 3/8 INC OD=467mm |  | 600 | pcs | API spec.10D |
| 6 | STRAIGHT NON-WELD BOW CENTRALIZER 9 5/8  OD= 325mm | 9 5/8 INC OD=325mm |  | 1000 | pcs | API spec.10D |
| 7 | STRAIGHT NON-WELD BOW CENTRALIZER 7”  OD= 244mm | 7 INC OD=244mm |  | 1200 | pcs | API spec.10D |
| 8 | NON-WELD POSITIVE CENTRALIZER 7 INC OD= 216mm | 7 INC OD=216mm |  | 600 | pcs |  |
| 9 | NON-WELD POSITIVE CENTRALIZER 9 5/8INC  OD= 298mm | 9 5/8INC OD=298mm |  | 500 | pcs |  |
| 10 | STRAIGHT NON-WELD BOW CENTRALIZER 5 1/2INC  OD= 222mm | 51/2 INC OD=222mm |  | 700 | pcs | API spec.10D |
| 11 | NON-WELD POSITIVE CENTRALIZER 7INC OD= 206mm | 7INC OD=206mm |  | 500 | pcs |  |
| 12 | DOUBLE BOW TURBOLIZER CENTRALIZER 5 ½”  OD= 264mm | 5 1/2 INC OD=264mm |  | 100 | pcs | API spec.10D |
| 13 | STRAIGHT NON-WELD BOW CENTRALIZER 5 INC x 5 3/4INC | 5 INC OD=183mm |  | 400 | pcs | API spec.10D |
| 14 | CENTRALIZER SPIRAGLIDER 7 INC x 8 1/4 INC | 7 INC x 8 1/4 INC |  | 800 | pcs |  |
| 15 | NON-WELD POSITIVE CENTRALIZER 5 1/2 INC OD= 194mm | 5 1/2 INC OD=194mm |  | 800 | pcs |  |
| 16 | CENTRALIZER SPIRAGLIDER 5 1/2 INC x 8 1/4 INC | 5 1/2 INC OD=81/4s |  | 1000 | pcs |  |
| 17 | STRAIGHT NON-WELD BOW CENTRALIZER 5 1/2INC,  OD= 265mm (10,417 INC) | 5 1/2 INC OD=265mm  (10,417 INC) |  | 1800 | pcs | API spec.10D |
| **Section 2** | | | | | | |
| 18 | STOP COLLAR HINGED 20 INC | 20 INC |  | 200 | pcs |  |
| 19 | STOP COLLAR HINGED 13 3/8 INC | 13 3/8 INC |  | 400 | pcs |  |
| 20 | STOP COLLAR HINGED 9 5/8 INC | 9 5/8 INC |  | 1500 | pcs |  |
| 21 | STOP COLLAR HINGED 5 INC | 5 INC |  | 1000 | pcs |  |
| 22 | STOP COLLAR HINGED 7 INC | 7 INC |  | 2000 | pcs |  |
| 23 | STOP COLLAR HINGED 5 1/2” INC | 5 1/2 INC |  | 2700 | pcs |  |
| 24 | TUBE LOK/THREAD LOK | 1/2LB PER BOX |  | 300 | pcs |  |
| 25 | MECHANICAL STAGE TOOL 13 3/8INC 61#N-80 BTC INCLUDING: SHUT-OFF PLUG & BAFFLE FREE FALL OPENING CONE CLOSING PLUG | 13 3/8INC 61# BTC  Must be PDC drillable | N-80 | 2 | pcs |  |
| 26 | MECHANICAL STAGE TOOL 9 5/8 47# P-110 BTC  INCLUDING: SHUT-OFF PLUG & BAFFLE FREE FALL OPENING CONE CLOSING PLUG | 9 5/8 47# BTC  Za T=150 C  Must be PDC drillable | P-110 | 6 | pcs |  |
| 27 | HYDRAULIC STAGE TOOL ) 7 INC 20-26# L-80 BTC  INCLUDING:  BY-PASS PLUG & BAFFLE  SHUT-OFF PLUG & LANDING COLLLAR WITH SHUT-OFF BAFFLE  FREE FALL OPENING CONE  PUMP DOWN OPENING PLUG, CLOSING PLUG | 7 INC 26# BTC  Must be PDC drillable | L-80 | 5 | pcs |  |
| 28 | HYDRAULIC STAGE TOOL 5 ½ INC 17-23# N-80 8RD  INCLUDING:  BY-PASS PLUG & BAFFLE  SHUT-OFF PLUG & LANDING COLLLAR WITH SHUT-OFF BAFFLE  FREE FALL OPENING CONE  PUMP DOWN OPENING PLUG, CLOSING PLUG | 5 1/2INC 17-23# 8RD  Must be PDC drillable | L-80 | 8 | pcs |  |
| **Section 3** | | | | | | |
| 29 | STANDARD BOTTOM PLUG 13 3/8 INC, 48-96# | NON-ROTATING TYPE |  | 15 | pcs |  |
| 30 | STANDARD TOP PLUG 13 3/8 inc, 48-96# | NON-ROTATING TYPE |  | 15 | pcs |  |
| 31 | STANDARD BOTTOM PLUG 7 INC, 20-38# | ROTATING TYPE |  | 20 | pcs |  |
| 32 | STANDARD TOP PLUG 7 INC, 20-38# | ROTATING TYPE |  | 20 | pcs |  |
| 33 | STANDARD BOTTOM PLUG 9 5/8 INC 32,3-70,3# | NON-ROTATING TYPE |  | 60 | pcs |  |
| 34 | STANDARD TOP PLUG 9 5/8 INC 32,3-70,3# | NON-ROTATING TYPE |  | 60 | pcs |  |
| 35 | STANDARD BOTTOM PLUG 5 1/2 INC | ROTATING TYPE |  | 60 | pcs |  |
| 36 | STANDARD TOP PLUG 5 1/2 INC | ROTATING TYPE |  | 60 | pcs |  |
| 37 | FLOAT SHOE 9 5/8 INC L-80 BTC | 9 5/8 inc x 32,3-53,5#  Required anti-returned valve with spring  Must be PDC drillable | L-80 | 40 | pcs | API RP 10F |
| 38 | FLOAT COLLAR 9 5/8 INC 40# L-80 BTC | 9 5/8 inc x 40#  Required anti-returned valve with spring  Must be PDC drillable | L-80 | 40 | pcs | API RP 10F |
| 39 | FLOAT SHOE 7 INC 26# L-80 BTC | 7 inc x 26#  Required anti-returned valve with spring | L-80 | 20 | pcs | API RP 10F |
| 40 | FLOAT SHOE 13 3/8 INC 61# L-80 BTC | 13 3/8 inc x 61#  Required anti-returned valve with spring | L-80 | 10 | pcs | API RP 10F |
| 41 | FLOAT SHOE 5 1/2 x 14-23# L-80 BTC | 5 ½ inc x 14-23#  Required anti-returned valve with spring | L-80 | 40 | pcs | API RP 10F |
| 42 | FLOAT SHOE 7 INC 32# P-110 VTOP | 7 inc x 32#  Required anti-returned valve with spring | P-110 | 40 | pcs | API RP 10F |
| 43 | FLOAT COLLAR 7 INC 32# P-110 VTOP | 7 INC 32#  Required anti-returned valve with spring | P-110 | 4 | pcs | API RP 10F |
| 44 | FLOAT COLLAR 5 1/2 x 14-23 L-80 BTC | 5 1/2inc x 14-23#  Required anti-returned valve with spring | L-80 | 40 | pcs | API RP 10F |
| 45 | FLOAT SHOE 13 3/8 INC  68# L-80 BTC | 13 3/8 inc x 68#  Required anti-returned valve with spring  Must be PDC drillable | L-80 | 5 | pcs | API RP 10F |
| 46 | FLOAT COLLAR 13 3/8 INC 68# L-80 BTC | 13 3/8 inc 68#  Required anti-returned valve with spring  Must be PDC drillable | L-80 | 5 | pcs | API RP 10F |
| 47 | FLOAT SHOE 7 INC 32# P-110 VTOP | 7 inc x 32#  Required anti-returned valve with spring | P-110 | 4 | pcs | API RP 10F, C3 |
| 48 | FLOAT COLLAR 7 INC 26# L-80 BTC | 7 inc x 26#  Required anti-returned valve with spring | L-80 | 15 | pcs | API RP 10F, C3 |
| 49 | SINGLE VALVE STAB-IN COLLAR 13 3/8INC 61# L-80 BTC WITH STINGER | 13 3/8 inc x 61#  Required anti-returned valve with spring  Must be PDC drillable | L-80 | 8 | pcs |  |
| 50 | FLOAT SHOE 20 INC 133# K-55 BTC | 20 inc x 133#  Required anti-returned valve with spring  Must be PDC drillable | K-55 | 6 | pcs | API RP 10F, C3 |
| 51 | SINGLE VALVE STAB-IN COLLAR 20 INC 133# K-55 BTC WITH STINGER | 20 inc x 133#  Required anti-returned valve with spring  Must be PDC drillable | K-55 | 6 | pcs |  |
| 52 | FLOAT SHOE 9 5/8INC 47# P-110 BTC | 9 5/8 inc x 47#  Required anti-returned valve with spring  Must be PDC drillable | P-110 | 10 | pcs | API RP 10F, C3 |
| 53 | FLOAT COLLAR 9 5/8 INC 47# P-110 BTC | 9 5/8 inc x 47#  Required anti-returned valve with spring  Must be PDC drillable | P-110 | 5 | pcs | API RP 10F, C3 |
| 54 | FLOAT COLLAR 7 INC 32# P-110 VTOP | 7 inc x 32#  Required anti-returned valve with spring | P-110 | 4 | pcs | API RP 10F, C3 |