



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



MTO FOR FITTINGS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D00

شماره صفحه: ۱ از ۱۰

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MTO FOR FITTINGS

نگهداشت و افزایش تولید میدان نفتی بینک

D00	OCT.2022	IFI	M.Noori	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 3

CLIENT Doc. Number: F8Z-708912

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 		
	MTO FOR FITTINGS								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته PI	نوع مدرک MT	سریال 0002	نسخه D00	شماره صفحه: ۱۰ از ۲

REVISION RECORD SHEET

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3	X					67					
4	X					68					
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
	MTO FOR FITTINGS							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	PI	MT	0002	D00
شماره صفحه: ۱۰ از ۳								

MTO FOR FITTINGS

Item	Description	Material	Size (Inch)	Req. Qty. (m)	Total Req. Qty. - Rounded (m)	Remarks
1	CAP NPT CL2000 AS PER ASME B16.11	ASTM A105	3/4"	2	2	
2	CAP NPT CL3000 AS PER ASME B16.11	ASTM A182 F316L	3/4"	8	8	
3	CAP NPT CL3000 AS PER ASME B16.11	ASTM A105 NACE MR0175	3/4"	2	2	
4	CAP NPT CL6000 AS PER ASME B16.11	ASTM A105 NACE MR0175	3/4"	5	5	
5	CAP NPT CL6000 AS PER ASME B16.11	ASTM A182 F316L	3/4"	1	1	
6	CAP NPT CL3000 AS PER ASME B16.11	ASTM A105 NACE MR0175	1"	2	2	
7	CAP NPT CL2000 AS PER ASME B16.11	ASTM A105 GALVD	1"	1	1	
8	CAP NPT CL3000 AS PER ASME B16.11	ASTM A182 F316L	1 1/2"	1	1	
9	CAP BW SMLS ASME B16.9 SCH.40	ASTM A234 GR.WPB	2"	1	1	
10	CAP THRD NPT CL2000 AS PER ASME B16.11	ASTM A105 GALVD	2"	1	1	
11	CAP BW SMLS ASME B16.9 SCH.80	ASTM A234 GR.WPB NACE MR0175	6"	1	1	
12	CAP BW SMLS ASME B16.9 SCH.60	ASTM A234 GR.WPB NACE MR0175	8"	1	1	
13	FULL COUPLING, NPT, CL2000, AS PER ASME B16.11	ASTM A105 GALVD	2"	1	1	
14	ELBOW 90 SW CL3000 SMLS AS PER ASME B16.11	ASTM A105	3/4"	3	3	
15	ELBOW 90 SW CL6000 SMLS AS PER ASME B16.11	ASTM A105 NACE MR0175	3/4"	2	2	
16	ELBOW 90 SW CL9000 SMLS AS PER ASME B16.11	ASTM A105 NACE MR0175	3/4"	4	4	
17	ELBOW 90 SW CL3000 SMLS AS PER ASME B16.11	ASTM A105	1"	2	2	
18	ELBOW 90 SW CL3000 SMLS AS PER ASME B16.11	ASTM A182 F316L	1"	2	2	
19	ELBOW 90 SW CL6000 SMLS AS PER ASME B16.11	ASTM A105 NACE MR0175	1"	2	2	

20	ELBOW 90 SW CL9000 SMLS AS PER ASME B16.11	ASTM A105 NACE MR0175	1"	5	5	
21	ELBOW 90 SW CL3000 SMLS AS PER ASME B16.11	ASTM A105	1 1/2"	3	3	
22	ELBOW 90, THRD, CL2000, AS PER ASME B16.11	ASTM A105 GALVD	2"	23	23	
23	ELBOW 45 BW SMLS LR SCH.80 AS PER ASME B16.9	ASTM A234 GR.WPB	2"	3	3	
24	ELBOW 90 BW SMLS LR SCH.40 AS PER ASME B16.9	ASTM A234 GR.WPB	2"	72	72	
25	ELBOW 90 BW SMLS LR SCH.80 AS PER ASME B16.9	ASTM A234 GR.WPB	2"	72	72	
26	ELBOW 45 BW SMLS LR SCH.160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	2"	16	16	
27	ELBOW 45 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	2"	3	3	
28	ELBOW 90 BW LR SMLS SCH160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	2"	340	340	
29	ELBOW 90 BW LR SMLS SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	2"	33	33	
30	ELBOW 45 LR SMLS BW SCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	2"	3	3	
31	ELBOW 45 LR SMLS BW SCH.40S AS PER ASME B16.9	ASTM A403 GR.WP316L	2"	1	1	
32	ELBOW 90 LR SMLS BW SCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	2"	23	23	
33	ELBOW 90 LR SMLS BW SCH.40S AS PER ASME B16.9	ASTM A403 GR.WP316L	2"	29	29	
34	ELBOW 90 BW SMLS LR SCH.40 AS PER ASME B16.9	ASTM A234 GR.WPB	3"	17	17	
35	ELBOW 90 BW SMLS LR SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	3"	10	10	
36	ELBOW 90 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	3"	49	49	
37	ELBOW 90 BW SMLS LR SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB	4"	15	15	
38	ELBOW 45 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"	4	4	
39	ELBOW 90 BW LR SMLS SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"	15	15	
40	ELBOW 90 LR SMLS BW SCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	4"	5	5	
41	ELBOW 90 BW SMLS LR SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB	6"	8	8	
42	ELBOW 45 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"	15	15	
43	ELBOW 90 BW SMLS LR SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"	42	42	

44	ELBOW 90 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"	90	90	
45	ELBOW 90 LR SMLS BW SCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	6"	18	18	
46	ELBOW 90 LR SMLS BW SCH.40S AS PER ASME B16.9	ASTM A403 GR.WP316L	6"	35	35	
47	ELBOW 45 BW SMLS LR SCH60 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"	6	6	
48	ELBOW 90 BW SMLS LR SCH20 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"	18	18	
49	ELBOW 90 BW SMLS LR SCH60 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"	39	39	
50	ELBOW 90 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"	8	8	
51	ELBOW 90 BW SMLS LR SCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	10"	28	28	
52	ELBOW 90 BW SMLS LR SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB	10"	4	4	
53	ELBOW 45 BW SMLS LR SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	10"	1	1	
54	ELBOW 90 BW SMLS LR SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	10"	18	18	
55	ELBOW 45 BW SMLS LR SCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	12"	2	2	
56	ELBOW 90 BW SMLS LR SCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	12"	18	18	
57	SWAGED NIPPLE CONC BLE/PSE SCH80XSCH80 AS PER MSS-SP-95	ASTM A234 GR.WPB	2"X 1 1/2"	1	1	
58	SWAGED NIPPLE CONC BLE/PSE SCH160XSCH160 AS PER MSS-SP-95	ASTM A234 GR.WPB NACE MR0175	2"X 1 1/2"	6	6	
59	REDUCED COUPLING THRD CL2000 AS PER ASME B16.11	ASTM A105 GALVD	2"X 1 1/2"	1	1	
60	SWAGED NIPPLE CONC BLE/PSE SCH160XSCHXXS AS PER MSS-SP-95	ASTM A234 GR.WPB NACE MR0175	2"X 1"	4	4	
61	SWAGED NIPPLE CONC BLE/PSE SCH80XSCH160 AS PER MSS-SP-95	ASTM A234 GR.WPB NACE MR0175	2"X 1"	3	3	
62	SWAGED NIPPLE ECC BLE/PSE SCH40XSCH80 AS PER MSS-SP-95	ASTM A234 GR.WPB	2"X 1"	2	2	
63	REDUCED COUPLING THRD CL2000 AS PER ASME B16.11	ASTM A105 GALVD	2"X 1"	2	2	
64	SWAGED NIPPLE ECC BLE/PSE SCH10XSCH40S AS PER MSS-SP-95	ASTM A403 GR.WP316L	2"X 1"	2	2	
65	SWAGED NIPPLE CONC BLE/PSE SCH80XSCH80 AS PER MSS-SP-95	ASTM A234 GR.WPB	2"X 3/4"	2	2	
66	SWAGED NIPPLE ECC BLE/PSE SCH40XSCH160 AS PER MSS-SP-95	ASTM A234 GR.WPB NACE MR0175	3"X1 1/2"	2	2	
67	REDUCER CONC BW SMLS SCH80XSCH160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	3"X 2"	3	3	
68	REDUCER CONC BW SMLS SCH40XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	3"X 2"	2	2	
69	REDUCER ECC BW BE SCH40XSCH40 SMLS AS PER ASME B16.9	ASTM A234 GR.WPB	4"X 2"	2	2	

70	REDUCER CONC BW SMLS SCH80XSCH160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"X 2"	4	4	
71	REDUCER ECC BW SMLS SCH80XSCH160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"X 2"	3	3	
72	REDUCER ECC BW SMLS SCH10XSCH10S AS PER ASME B16.9	ASTM A403 WP316L	4"X 2"	2	2	
73	REDUCER ECC BW SMLS SCH40XSCH40S AS PER ASME B16.9	ASTM A403 WP316L	4"X 2"	6	6	
74	REDUCER CONC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"X 3"	1	1	
75	REDUCER CONC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"X 3"	1	1	
76	REDUCER ECC BW SMLS SCH40XSCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"X 3"	5	5	
77	REDUCER CONC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"X 3"	6	6	
78	REDUCER ECC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"X 3"	10	10	
79	REDUCER ECC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"X 4"	3	3	
80	REDUCER CONC BW SMLS SCH60XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"X 6"	3	3	
81	REDUCER CONC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"X 6"	1	1	
82	REDUCER ECC BW SMLS SCH60XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"X 6"	2	2	
83	REDUCER ECC BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"X 6"	2	2	
84	REDUCER ECC BW SMLS SCH40XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	10"X 6"	1	1	
85	REDUCER CONC BW SMLS SCH20XSCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	10"X 8"	2	2	
86	REDUCER ECC BW SMLS SCH20XSCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	10"X 8"	2	2	
87	REDUCER CONC BW BE SCH80XSCH80 SMLS AS PER ASME B16.9	ASTM A234 GR.WPB	10"X 8"	1	1	
88	REDUCER CONC BW SMLS SCH40XSCH60 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	10"X 8"	1	1	
89	REDUCER ECC BW SMLS SCH20XSCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	12"X 10"	2	2	
90	REDUCER CON HDPE PE100 ACC. DIN 16963 & MFR STD PN16	HDPE PE100	63mX25mm	1	1	
91	REDUCER CON HDPE PE100 ACC. DIN 16963 & MFR STD PN16	HDPE PE100	315mX250mm	2	2	
92	TEE EQ, THRD, CL2000, AS PER ASME B16.11	ASTM A105 GALVANIZED	2"	8	8	
93	TEE RED, THRD, CL2000, AS PER ASME B16.11	ASTM A105 GALVANIZED	2" X 1"	13	13	

94	TEE EQ SMLS BW SCH40 ASME B16.9	ASTM A234 GR.WPB	2"	16	16	
95	TEE EQ SMLS BW SCH80 ASME B16.9	ASTM A234 GR.WPB	2"	13	13	
96	TEE EQ BW SMLS SCH160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	2"	45	45	
97	TEE EQ BW SMLS SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	2"	9	9	
98	LATERAL TEE EQ BW SMLS SCH160XSCH160 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	2"	2	2	
99	TEE EQ BW SMLS SCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	2"	12	12	
100	TEE EQ BW SMLS SCH.40S AS PER ASME B16.9	ASTM A403 GR.WP316L	2"	5	5	
101	HALF COUPLING SW CL3000 ASME B16.11	ASTM A105	2"X1 1/2"	1	1	
102	HALF COUPLING SW CL3000 ASME B16.11	ASTM A105	2"X1"	26	26	
103	HALF COUPLING SW CL3000 ASME B16.11	ASTM A105	2"X3/4"	5	5	
104	HALF COUPLING SW CL6000 AS PER ASME B16.11	ASTM A105 NACE MR0175	2"X3/4"	12	12	
105	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	2"X1 1/2"	2	2	
106	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	2"X1"	7	7	
107	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	2"X3/4"	18	18	
108	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	2"X3/4"	9	9	
109	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	2"X1"	2	2	
110	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	2"X1 1/2"	1	1	
111	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A182 F316L	2"X3/4"	5	5	
112	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A182 F316L	2"X1"	1	1	
113	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A182 F316L	2"X1 1/2"	1	1	
114	SOCKOLET CL3000 AS PER MSS SP-97	ASTM A182 F316L	2"X3/4"	3	3	
115	SOCKOLET SW CL6000 AS PER MSS-SP-97	ASTM A182 F316L	2"X3/4"	4	4	
116	SOCKOLET SW CL6000 AS PER MSS-SP-97	ASTM A182 F316L	2"X1 1/2"	3	3	
117	TEE EQ SMLS BW SCH40 ASME B16.9	ASTM A234 GR.WPB	3"	3	3	
118	TEE EQ BW SMLS SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	3"	3	3	
119	TEE RED BW SMLS SCH80XSCH160 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	3"X 2"	3	3	

120	LATERAL TEE RED BW SMLS SCH80XSCH160 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	3"X 2"	1	1	
121	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A105	3"X 3/4"	1	1	
122	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A105	3"X 1"	1	1	
123	HALF COUPLING SW CL6000 AS PER ASME B16.11	ASTM A105 NACE MR0175	3"X 3/4"	5	5	
124	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	3"X 3/4"	7	7	
125	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	3"X 1"	2	2	
126	SOCKOLET SW CL6000 AS PER MSS-SP-97	ASTM A105 NACE MR0175	3"X 1"	7	7	
127	TEE EQ SMLS BW SCH40 ASME B16.9	ASTM A234 GR.WPB	4"	3	3	
128	TEE RED SMLS BW SCH40XSCH40 ASME B16.9	ASTM A234 GR.WPB	4"X 3"	1	1	
129	TEE RED SMLS BW SCH40XSCH40 ASME B16.9	ASTM A234 GR.WPB	4"X 2"	4	4	
130	TEE RED BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	4"X 3"	2	2	
131	TEE EQ BW SMLS SCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	4"	1	1	
132	TEE RED BW SMLS SCH.10SXSCH.10S AS PER ASME B16.9	ASTM A403 GR.WP316L	4"X 3"	1	1	
133	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	4"X 3/4"	3	3	
134	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	4"X 1"	1	1	
135	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	4"X 1 1/2"	3	3	
136	SOCKOLET SW CL6000 AS PER MSS-SP-97	ASTM A182 F316L	4"X 1"	3	3	
137	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A182 F316L	4"X 1"	8	8	
138	TEE EQ BW SMLS SCH80 ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"	5	5	
139	TEE RED BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	6"X 4"	7	7	
140	LATERAL TEE EQ BW SMLS SCH80 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	6"	3	3	
141	LATERAL TEE RED BW SMLS SCH80XSCH80 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	6"X 3"	1	1	
142	TEE EQ BW SMLS SCH40S AS PER ASME B16.9	ASTM A403 GR.WP316L	6"	6	6	
143	TEE RED BW SMLS SCH40SXSCH40S AS PER ASME B16.9	ASTM A403 GR.WP316L	6"X 4"	3	3	
144	LATROLET BW SCH160 AS PER MSS-SP-97	ASTM A105 NACE MR0175	6"X 2"	19	19	
145	WELDOLET BW SCH80 AS PER MSS-SP-97	ASTM A105 NACE MR0175	6"X 2"	12	12	
146	WELDOLET BW SCH160 AS PER MSS-SP-97	ASTM A105 NACE MR0175	6"X 2"	16	16	
147	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	6"X 1 1/2"	1	1	

148	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	6"X 1 1/2"	29	29	
149	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	6"X 1"	37	37	
150	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	6"X 3/4"	5	5	
151	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	6"X 3/4"	13	13	
152	HALF COUPLING SW CL6000 AS PER ASME B16.11	ASTM A105 NACE MR0175	6"X 3/4"	3	3	
153	SOCKOLET, SW, CL9000, AS PER MSS-SP-97	ASTM A105 NACE MR0175	6"X 1"	4	4	
154	SOCKOLET CL3000 AS PER MSS SP-97	ASTM A182 F316L	6"X 1"	3	3	
155	SOCKOLET CL3000 AS PER MSS SP-97	ASTM A182 F316L	6"X 1 1/2"	9	9	
156	SOCKOLET SW CL6000 AS PER MSS-SP-97	ASTM A182 F316L	6"X 3/4"	3	3	
157	SOCKOLET SW CL6000 AS PER MSS-SP-97	ASTM A182 F316L	6"X 1 1/2"	9	9	
158	WELDOLET BW SCH40S AS PER MSS-SP-97	ASTM A182 F316L	6"X 2"	10	10	
159	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	8"X 3/4"	2	2	
160	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	8"X 3/4"	4	4	
161	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A105 NACE MR0175	8"X 1"	21	21	
162	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	8"X 1"	5	5	
163	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	8"X 1"	7	7	
164	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A105 NACE MR0175	8"X 1 1/2"	9	9	
165	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105 NACE MR0175	8"X 1 1/2"	1	1	
166	LATROLET BW SCH160 AS PER MSS-SP-97	ASTM A105 NACE MR0175	8"X 2"	17	17	
167	WELDOLET BW SCH80 AS PER MSS-SP-97	ASTM A105 NACE MR0175	8"X 2"	3	3	
168	WELDOLET BW SCH160 AS PER MSS-SP-97	ASTM A105 NACE MR0175	8"X 2"	12	12	
169	LATROLET BW SCH80 AS PER MSS-SP-97	ASTM A105 NACE MR0175	8"X 3"	5	5	
170	TEE EQ BW SMLS SCH60 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"	5	5	
171	TEE EQ BW SMLS SCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"	2	2	
172	TEE RED BW SMLS SCH60XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"X 6"	2	2	
173	TEE RED BW SMLS SCH80XSCH80 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	8"X 6"	1	1	
174	LATERAL TEE EQ BW SMLS SCH60 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	8"	2	2	

175	LATERAL TEE RED BW SMLS SCH60XSCH80 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	8"X 4"	4	4	
176	LATERAL TEE RED BW SMLS SCH60XSCH80 AS PER MANUFACTURERS STANDARD	ASTM A234 GR.WPB NACE MR0175	8"X 6"	10	10	
177	TEE EQ BW BE SCH80XSCH80 SMLS AS PER ASME B16.9	ASTM A234 GR.WPB	10"	3	3	
178	TEE EQ BW SMLS SCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	10"	3	3	
179	TEE RED BW SMLS SCH20XSCH40 AS PER ASME B16.9	ASTM A234 GR.WPB	10"X 6"	1	1	
180	TEE EQ BW SMLS SCH40 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	10"	3	3	
181	TEE RED BW SMLS SCH40XSCH60 AS PER ASME B16.9	ASTM A234 GR.WPB NACE MR0175	10"X 8"	3	3	
182	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A105	10"X 1"	2	2	
183	SOCKOLET SW CL6000 AS PER MSS SP-97	ASTM A105	10"X 1"	1	1	
184	WELDOLET SCH160 AS PER MSS-SP-97	ASTM A105	10"X 2"	1	1	
185	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	10"X 3/4"	1	1	
186	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	10"X 1"	4	4	
187	HALF COUPLING SW CL9000 AS PER ASME B16.11	ASTM A105 NACE MR0175	10"X 1 1/2"	3	3	
188	WELDOLET BW SCH80 AS PER MSS-SP-97	ASTM A105 NACE MR0175	10"X 3"	1	1	
189	HALF COUPLING SW CL3000 AS PER ASME B16.11	ASTM A105	12"X 1"	5	5	
190	WELDOLET BW SCH80 AS PER MSS-SP-97	ASTM A105	12"X 2"	4	4	
191	TEE EQ BW SMLS SCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	12"	6	6	
192	TEE RED BW SMLS SCH20XSCH20 AS PER ASME B16.9	ASTM A234 GR.WPB	12"X 10"	4	4	
193	TEE EQUAL HDPE PE100 ACC. DIN 16963 & MFR STD PN16	HDPE PE100	63mm	1	1	
194	TEE EQUAL HDPE PE100 ACC. DIN 16963 & MFR STD PN16	HDPE PE100	250mm	22	22	