طرح نگهداشت و افزایش تولید ۲۷ مخزن

MTO For Bolt & Nuts

نگهداشت و افزایش تولید میدان نفتی بینک

D00	MAR.2024	IFI	M.Noori	M.Fakharian	S.Faramarzpour	
Rev.	**Date**	**Purpose of Issue / Status**	**Prepared by:**	**Checked by:**	**Approved by:**	**CLIENT Approval**

Class: 3 | **CLIENT Doc. Number: F8Z-708916**

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 سطح‌الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک MTO For Bolt & Nuts	شرکت توسعه پتروایران HIRGAN ENERGY

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸٤	BK	GCS	PEDCO	120	PI	MT	0006	D00	

REVISION RECORD SHEET

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MTO For Bolt & Nuts

Item	Description	Material	Size (Inch)	Length (mm)	Req. Qty. (m)	Remarks
1	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	1/2	100	4	
2	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1/2	100	16	
3	STUD BOLT WITH 2 HEAVY HEX NUTS PER ASME B18.2.1 & B18.2.2	ASTM A193 GR.B7/ ASTM A194GR.2H	1/2	80	16	
4	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B7 (GALVD)/ ASTMA194 GR.2H (GALVD)	1/2	80	4	
5	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	1/2	80	24	
6	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1/2	80	28	
7	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B8M/ ASTM A194 GR.8M	1/2	80	16	
8	STUD BOLT WITH 2 HEAVY HEX NUTS PER ASME B18.2.1 & B18.2.2	ASTM A193 GR.B7/ ASTM A194GR.2H	5/8	100	272	
9	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B7 (GALVD)/ ASTMA194 GR.2H (GALVD)	5/8	100	160	
10	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	5/8	100	416	
11	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	5/8	100	468	
12	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	5/8	100	1,404	
13	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B8M/ ASTM A194 GR.8M	5/8	100	148	

NOTES:

1- No spare or contingency have been considered.

MTO For Bolt & Nuts

Item	Description	Material	Size (Inch)	Length (mm)	Req. Qty. (m)	Remarks
14	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	5/8	110	120	
15	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	5/8	110	72	
16	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	5/8	110	352	
17	STUD BOLT WITH 2 HEAVY HEX NUTS PER ASME B18.2.1 & B18.2.2	ASTM A193 GR.B7/ ASTM A194GR.2H	5/8	120	20	
18	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B7 (GALVD)/ ASTMA194 GR.2H (GALVD)	5/8	120	8	
19	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	5/8	120	116	
20	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	5/8	120	80	
21	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	5/8	120	124	
22	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B8M/ ASTM A194 GR.8M	5/8	120	48	
23	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	5/8	140	40	
24	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	5/8	140	40	
25	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	5/8	90	52	
26	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	5/8	90	4	

NOTES:

1- No spare or contingency have been considered.

MTO For Bolt & Nuts

Item	Description	Material	Size (Inch)	Length (mm)	Req. Qty. (m)	Remarks
27	STUD BOLT WITH 2 HEAVY HEX NUTS PER ASME B18.2.1 & B18.2.2	ASTM A193 GR.B7/ ASTM A194GR.2H	3/4	100	8	
28	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	3/4	100	24	
29	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	100	80	
30	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	3/4	110	32	
31	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	3/4	110	4	
32	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	110	32	
33	STUD BOLT WITH 2 HEAVY HEX NUTS PER ASME B18.2.1 & B18.2.2	ASTM A193 GR.B7/ ASTM A194GR.2H	3/4	120	88	
34	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	3/4	120	24	
35	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	3/4	120	56	
36	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	120	740	
37	STUD BOLTS WITH 2 HEAVY HEX NUTS ZINC PLATED ASME B18.2.1 &B18.2.2	ASTM A193 GR.B7/ASTM A194 GR.2H	3/4	120	48	
38	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	3/4	130	40	
39	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	130	72	

NOTES:

1- No spare or contingency have been considered.

MTO For Bolt & Nuts

Item	Description	Material	Size (Inch)	Length (mm)	Req. Qty. (m)	Remarks
40	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	3/4	140	12	
41	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	3/4	140	44	
42	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	140	260	
43	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	160	68	
44	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	3/4	180	36	
45	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	3/4	180	48	
46	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	7/8	120	216	
47	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	7/8	120	132	
48	STUD BOLTS WITH 2 HEAVY HEX NUTS ZINC PLATED ASME B18.2.1 &B18.2.2	ASTM A193 GR.B7/ASTM A194 GR.2H	7/8	120	204	
49	STUD BOLT WITH 2 HEAVY HEX NUTS PER ASME B18.2.1 & B18.2.2	ASTM A193 GR.B7/ ASTM A194GR.2H	7/8	140	12	
50	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	7/8	140	324	
51	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	7/8	140	132	
52	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	7/8	150	64	

NOTES:

1- No spare or contingency have been considered.

MTO For Bolt & Nuts

Item	Description	Material	Size (Inch)	Length (mm)	Req. Qty. (m)	Remarks
53	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	7/8	150	32	
54	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	7/8	150	120	
55	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	7/8	160	48	
56	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7/ ASTM A194 GR.2H	7/8	180	36	
57	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	7/8	180	24	
58	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	1	175	240	
59	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1	175	372	
60	STUD BOLT WITH 2 HEAVY HEX NUTS UNIFIED THREAD PER ASME B 1.1	ASTM A193 GR.B8M/ ASTM A194GR.8M	1	220	60	
61	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1	220	36	
62	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1.1/8	195	132	
63	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1.1/8	240	24	
64	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1.1/4	220	16	
65	STUD BOLT WITH 2 HEAVY HEX NUTS ZINC PLATED CHROMATE TREATED PER ASMEB18.2.1 & B18.2.2	ASTMA193 GR.B7M/ ASTM A194 GR.2HM	1.1/4	270	16	

NOTES:

1- No spare or contingency have been considered.