

تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری BK14



شماره پیمان:

· 24 - · 74 - 9114

	MIOFC	OR TRANSM	ISSION O	VEK HE	AD LINE - E	3K14	
نسخه سریال نوع مدرک رشته تسهیلات صادرکننده بسته کاری پروژه							نسخه
BK	BK14	PEDCO	110	EL	MT	0001	D01

شماره صفحه : ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MTO FOR TRANSMISSION OVER HEAD LINE - BK14

نگهداشت و افزایش تولید میدان نفتی بینک

Class: 3		CLIENT Doc Number: E87	700100			
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D00	Sep. 2022	IFI	H.Shakiba	M.Fakharian	M.Mehrshad	
D01	Nov. 2022	IFI	H.Shakiba	M.Fakharian	M.Mehrshad	

Class: 3 CLIENT Doc. Number: F8Z-708199

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



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MTO FOR TRANSMISSION OVER HEAD LINE - BK14

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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه
BK	BK14	PEDCO	110	EL	MT	0001	D01

شماره صفحه: ۲ از ۷

#### **REVISION RECORD SHEET**

PAGE	D00	D01	D02	D03	D04	PAGE	D00	D01	D02	D03	D04
1	Х	Х				51					
2	Х	Х				52					
3	Х					53					
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BK	BK14	PEDCO	110	EL	MT	0001	D01

شماره صفحه: ۳ از ۷

### **CONTENTS**

1.0	INTRODUCTION	.4
2.0	SCOPE	. 5
3.0	NORMATIVE REFERENCES	. 5
3.1	Local Codes and Standards	
3.2	International Codes and Standards	5
3.3	The Project Documents	5
3.4	ENVIRONMENTAL DATA	5
4.0	ATTACHMENT1 (OHL MTO)	. 6
5.0	ATTACHMENT2 (SUBSTATION MTO)	7



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شماره پیمان:

· 24 - · 74 - 9114

	MTO FC	OR TRANSM	ISSION O	VER HE	AD LINE - E	3K14	
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BK	BK14	PEDCO	110	EL	MT	0001	D01

شماره صفحه: ۴ از ۷

#### 1.0 INTRODUCTION

Binak oilfield in Bushehr province is a part of the southern oilfields of Iran, is located 20 km northwest of Genaveh city.

With the aim of increasing production of oil from Binak oilfield, an EPC/EPD Project has been defined by NIOC/NISOC and awarded to Petro Iran Development Company (PEDCO). Also PEDCO (as General Contractor) has assigned the EPC-packages of the Project to "Hirgan Energy - Design and Inspection" JV.

As a part of the Project, required modifications on BK14 workover well (with electric power supply) shall be done.

#### **GENERAL DEFINITION**

The following terms shall be used in this document.

CLIENT: National Iranian South Oilfields Company (NISOC)

PROJECT: Binak Oilfield Development - Construction of Well

Location, Wellhead Facilities, Electrification Facilities,

& Flowlines for W046S

EPD/EPC CONTRACTOR: Petro Iran Development Company (PEDCO)

EPC CONTRACTOR: Joint Venture of : Hirgan Energy - Design &

Inspection(D&I) Companies

VENDOR: The firm or person who will fabricate the equipment or

material.

EXECUTOR: Executor is the party which carries out all or part of

construction and/or commissioning for the project.

THIRD PARTY INSPECTOR (TPI): The firm appointed by EPC CONTRACTOR and

approved by GC & Company (in writing) for the

inspection of goods.

SHALL: Is used where a provision is mandatory.

SHOULD: Is used where a provision is advisory only.

WILL: Is normally used in connection with the action by

COMPANY rather than by an EPC/EPD

CONTRACTOR, supplier or VENDOR.

MAY: Is used where a provision is completely discretionary.



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BK	BK14	PEDCO	110	EL	MT	0001	D01

شماره صفحه: ۵ از ۷

#### 2.0 SCOPE

This document covers the MTO for Over Head Line to BK-14.

It shall be used in conjunction with data/requisition sheets for present document subject.

#### 3.0 NORMATIVE REFERENCES

#### 3.1 LOCAL CODES AND STANDARDS

IPS-E-EL-100 Engineering Standard for Electrical System Design

• IPS-E-EL-160 Engineering Standard for Overhead Transmission & Distribution Lines

#### 3.2 INTERNATIONAL CODES AND STANDARDS

استاندارد جامع مهندسی و طراحی خطوط انتقال نیروی برق ایران آیین نامه بارگذاری برج ها- جلد ۵۰٫۲۱۱

استاندارد جامع مهندسی و طراحی خطوط انتقال نیروی برق ایران نقشه پهنه بندی کشور - جلد ۵۰٬۲۲۱ •

#### 3.3 THE PROJECT DOCUMENTS

BK-BK14-PEDCO-110-SU-DW-0001
 Over Head Line Plan and Profile – BK14

BK-SSGRL-PEDCO-110-EL-RT-0005
 33KV Over Head Line Study Report

• BK-SSGRL-PEDCO-110-EL-DT-0013 Data Sheets for 33 KV Over Head Line

Equipment

#### 3.4 ENVIRONMENTAL DATA

Refer to "Electrical System Design Criteria"; Doc. No. "BK-GNRAL-PEDCO-000-EL-DC-0001".



## تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری **BK14**



شماره پیمان:

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	MTO FC	OR TRANSM	ISSION O	VER HE	AD LINE - E	3K14	
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BK	BK14	PEDCO	110	EL	MT	0001	D01

شماره صفحه: ۶ از ۷

#### 4.0 ATTACHMENT1 (OHL MTO)

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	MTO for Transmission Over Head Line - BK14		
Item	Description	Unit	Qty
1	Basic Body with all accessories e.g., Stub, Legs, Anti-climbing thorn, Ladder, for Lattice 1Circuit Tower – <b>Suspension</b> Type A	Set	2
2	Basic Body with all accessories e.g., Stub, Legs, Anti-climbing thorn, Ladder, for Lattice 1Circuit Tower – <b>Tension</b> Type B	Set	2
3	Basic Body with all accessories e.g., Stub, Legs, Anti-climbing thorn, Ladder, for Lattice 1Circuit Tower – <b>Dead End Tension</b> Type C	Set	2
4	Phase Conductor – ACSR/Hyena	m	3000
5	Shield Wire – 7No.8/AW	m	1000
6	70 KN Porcelain/Ceramic Type Disc Insulator - 33kV	No.	225
7	70 KN "I" Type Tension Accessories for Hyena Conductor	Set	30
8	70 KN "I" Type Suspension Accessories for Hyena Conductor	Set	6
9	70 KN "I" Type Jumper Accessories for Hyena Conductor	Set	6
10	Damper for Hyena Conductor	No.	36
11	Mid Span Joint for Hyena Conductor	No	2
12	Repair sleeve for Hyena Conductor	No	1
13	70 KN Tension Accessories for 7No.8	Set	12
14	70 KN Suspension Accessories for 7No.8	Set	2
15	Damper for 7No8AW	No	12
16	Mid Span Joint for 7No8AW	No	1
17	Repair sleeve for 7No8AW	No	1
18	Warning Colored ball with Armor rod for 7No.8	Set	2
19	Danger & phase plate for towers	No	6
20	35mm ² Copper Wire	m	270
21	Earthing Rod 1.5m-16mm	Set	6
22	Clamp for connecting the ground wire to the stub	Set	24
23	Clamp for connecting the ground wire to Rod	Set	6
24	Clamp for connecting the ground wire to ground wire	Set	6



## تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری BK14



شماره پیمان:

111P - 77.

MTO FOR TRANSMISSION OVER HEAD LINE - BK14										
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	BK14	PEDCO	110	EL	MT	0001	D01			

شماره صفحه: ۷ از ۷

## 5.0 ATTACHMENT2 (SUBSTATION MTO)

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MTO for substation (Gantry in T-off for BK14/Goreh/Binak and Gantry in well No. BK14)							
Item	Description		Qty				
1	Load Break Switch, 36kV, 630A, 25kA/1s (Outdoor Type)	Set	5				
2	Earthing switch, Complete with manually operated mechanism	Set	3				
3	Cut out fuse, 36kV, 3Phase	Set	3				
4	Surge Arrester, 36kV, 10kA, Cl.2	No.	9				
5	70kN Porcelain/Ceramic Type Disc Insulator - 33kV	No.	105				
6	36kV Post Insulator, Strength Class C6	No.	3				
7	36kV Cable Sealing End, heat shrinkable, with lug and accessories	No.	3				
8	Gantries with 2 column & 1 beam	Set	5				
9	All beam & support & adaptor for MV equipment and fixing of them	Set	5				