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| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **MTO FOR TRANSMISSION OVER HEAD LINE – W007S****نگهداشت و افزایش تولید میدان نفتی بینک** |
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| D00 | Sep. 2022 | IFI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **CLIENT Approval** |
| **Class: 3** | **CLIENT Doc. Number: F8Z-708041** |
| **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** |

**REVISION RECORD SHEET**

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| **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |  | **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |
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1. **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 W007S 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. |

1. **Scope**

This document covers the MTO for Over Head Line to W007S.

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

1. **NORMATIVE REFERENCES**

## 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

## International Codes and Standards

* آیین نامه بارگذاری برج ها- جلد 50.211 استاندارد جامع مهندسی و طراحی خطوط انتقال نیروی برق ایران
* نقشه پهنه بندی کشور- جلد 50.221 استاندارد جامع مهندسی و طراحی خطوط انتقال نیروی برق ایران

## The Project Documents

* BK-W007S-PEDCO-110-SU-DW-0001 Over Head Line Plan and Profile – W007S
* BK-SSGRL-PEDCO-110-EL-RT-0004 11KV Over Head Line Study Report
* BK-SSGRL-PEDCO-110-EL-DT-0012 Data Sheets for 11 KV Over Head Line Equipment

## ENVIRONMENTAL DATA

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

1. **ATTACHMENT**

| **MTO for Transmission Over Head Line – W007S** |
| --- |
| **Item** | **Description** | **Unit** | **Qty** |
|  | Basic Body with all accessories e.g., Stub, Legs, Anti-climbing thorn, Ladder, … for Lattice 2Circuit Tower – **Tension** Type AF2MP | Set | 5 |
|  | Phase Conductor – ACSR/Hyena | m | 1800 |
|  | 70 KN Porcelain/Ceramic Type Disc Insulator - 11kV | No. | 165 |
|  | 70 KN “I” Type Tension Accessories for Hyena Conductor | Set | 30 |
|  | 70 KN “I” Type Jumper Accessories for Hyena Conductor | Set | 3 |
|  | Damper for Hyena Conductor | No. | 30 |
|  | Mid Span Joint for Hyena Conductor | No | 1 |
|  | Repair sleeve for Hyena Conductor | No | 1 |
|  | Danger & phase plate for towers | No | 5 |
|  | 35mm2 Copper Wire | m | 200 |
|  | Earthing Rod 1.5m-16mm | Set | 5 |
|  | Clamp for connecting the ground wire to the stub | Set | 20 |
|  | Clamp for connecting the ground wire to Rod | Set | 5 |
|  | Clamp for connecting the ground wire to ground wire | Set | 5 |