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| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **MTO FOR RADIO****نگهداشت و افزایش تولید میدان نفتی بینک** |
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| D02 | Nov. 2022 | FI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| D01 | Jan. 2022 | IFI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| D00 | Dec. 2021 | 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-709097** |
| **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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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, a New Gas Compressor Station (adjacent to existing Binak GCS) shall be constructed to gather of 15 MMSCFD (approx.) associated gases and compress & transfer them to Siahmakan GIS.

**GENERAL DEFINITION**

The following terms shall be used in this document.

|  |  |
| --- | --- |
| CLIENT:  | National Iranian South Oilfields CLIENT (NISOC)  |
| PROJECT: | Binak Oilfield Development – Surface Fcilities; New Gas Compressor Station |
| EPD/EPC CONTRACTOR (GC): | 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 EPD/EPC CONTRACTOR (GC) and approved by 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 CLIENT rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR. |
| MAY:  | Is used where a provision is completely discretionary. |

1. **Scope**

This document covers minimum necessary requirements for the design, selection, manufacture,
inspection, testing and delivery of **VHF Radio packages and Tower**.

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

1. **MATERIAL TAKE OFF FOR VHF RADIO AND TOWER**

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| **VHF RADIO SYSTEM MTO** |
| ITEM | **DESCRIPTION** | **QTY** | **Remark** |
|
| 1 | Radio Handheld , VHF (136 - 174 MHz) With Accessories as mentioned in data sheet such as antenna , leather carrying case,.. , suitable for EX area , IS Type  | **6** |  |
| 2 | Vehicular VHF Radio ,VHF (136 - 174 MHz) With Accessories (Microphone,..) and accessories for installation at car | 4 |  |
| 2.1 | Antenna for Vehicular Radio With Accessories | 4 |  |
| 3 | Battery For Handheld Battery Cell: NiMHReusability: RechargeableBattery Capacity: 1450 Milliamp Hours | 6 |  |
| 4 | Charger For Handheld (Minimum 6 BAY)Compatible Chemistries :Ni-CD / Ni-MH / Li-Ion / Li-PolymerPower Supply Input: 100V - 240V AC / 50 Hz - 60 Hz / 2.2A (max) | 1 |  |
| 5 | **Telecom Radio Tower , 50 Meter** , 4 Legs , Self-support, with foundation , earth , lightening system , warning light , required accessories that mentioned in data sheet  | 1 |  |

Note;

* The Radio Base station in Binak site is exist from Motorola Manufacture.
* The required Model for radio handset and mobile radio shall be compatible with main exist base system.
* The detail installation of telecom tower shall be submitted before PO by vendor To review and approval of owner.
* The Exist Telecom tower in binak site shall be removed and all its equipment shall be moved to new tower.
* The required 2 years spare part list have been mentioned in MR For radio system .