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| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **MTO FOR TELECOM EQUIPMENT****نگهداشت و افزایش تولید میدان نفتی بینک** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| D02 | Feb.2023 | FI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| D01 | Sep. 2022 | IFI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
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| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **Client Approval** |
| **Class:3** | **Client Doc. Number: F8Z-709095** |
| **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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| **3** | X | X |  |  |  | **53** |  |  |  |  |  |
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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 CLIENT (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. **GENERAL**
* This document presents the item material requisitions for Contractor’s use as appropriate.
* This material requisition covers the requirements for the design, manufacturing, testing and supply of **Telephone & Hotline Set** as listed below.

The supplier shall supply Telephone System. The supplier shall include in the supply, all other equipment/devices/items not listed in the following, but necessary for a good design and a safe operation, taking into account process data and installation conditions such as area classification and climatic conditions.

The grade of shop assembly of the equipment/devices/items supplied shall be at maximum extent to facilitate site erection and pre-commissioning activities.

1. **bill of material list**

| **Item** | **Description** | **Design****QTY.** | **Unit** | **Remark** |
| --- | --- | --- | --- | --- |
|  | Analogue extension line :**20 Line analogue Extension** **(Main PABX is Alcatel band That installed in TE Room )** | 1 | Set | Extension of Exist ALCATEL PABX at Telecom building  |
|  | License + Upgrade software of Exist PABX At CGS (if required) | 1 | Set |  |
|  | 3 Bokht , 50 Pairs MDF/IDF Terminal 0.6 mm(building side) +50 pair 0.8 mm filed side | 2 | Set | For both side |
|  | **Weatherproof** Telephone set,IP 65, with keypad and handset + Combined beacon& sounder | 4 | Set | For outdoor of Electrical Building + **CGS Area** |
|  | **Explosion-Proof** ,IP65 Telephone, EEX e -IIB T3 II2 GD, Telephone with handset keypad + EX Combined beacon& sounder | 2 | Set | D02 |
|  | H.D.G **Telephone Kiosk**, 25dB Decrease of noise | 6 | Set |  |
|  | 2.5 Meter H.D.G Pole  | 6 | Set |  |
|  | EX Telephone Junction Box (10x10 cm) with 5 Pair Terminal 0.8 mm, , IP 65 , Metallic Body+ 3xM20 Gland | 2 | Set |  |
|  | Weather Proof Telephone Junction Box (10x10 cm) with 5 Pair Terminal 0.8 mm, , IP 65 , Metallic Body+ 3xM20 Gland | 7 | Set |  |
|  | EX Telephone Junction Box (10x10 cm) with 2 No Terminal 3x2.5 mm2, , IP 65 , Metallic Body+3xM20 Gland | 2 | Set | JB For flasher |
|  | WP Telephone Junction Box (10x10 cm) with 2 Terminal 3x2.5 mm2, , IP 65 , Metallic Body+3xM20 Gland | 7 | Set | JB For flasher |
|  | Hotline Telephone Set + **Red Kiosk** +IP 65Red Color without keypad | 3 | Set |  |
|  | Telephone Cable, 50 pair 0.8 mm , CFC Type , Armored  | 60 | Meter |  |
|  | Telephone Cable, 5 pair 0.8 mm , CFC Type , Armored , LS Type | 2600 | Meter |  |
|  | Power Cable , 3x2.5 mm2 , Armored  | 1600 | Meter | For flash light of telephone set |
|  | Indoor digital telephone set , **Desk mounted** **Compatible with Alcatel telephone set**  | 15 | Set  | For CCR and switchgear room  |
|  | RJ 11 Telephone Socket , Flush Mounted  | 14 | Set | For CCR |
|  | 2 Pair 0.6 mm Indoor telephone Cable , LSZH | 400 | Meter | For CCR |

Telephone line in CGS Will be connected to New Telephone MDF of new Control building and then routed to MDF of Exist PABX at Telecom room via **50 pair 0.8** CU/PVC/SWA telephone cable.

D02