|  |
| --- |
| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **MTO FOR TELECOM EQUIPMENT****نگهداشت و افزایش تولید میدان نفتی بینک** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| D01 | Sep. 2022 | IFI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| D00 | May. 2022 | IFI | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **CLIENT Approval** |
| **Class:2** | **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**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |  | **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |
| **1** | X | X |  |  |  | **51** |  |  |  |  |  |
| **2** | X | X |  |  |  | **52** |  |  |  |  |  |
| **3** | X | X |  |  |  | **53** |  |  |  |  |  |
| **4** | X | X |  |  |  | **54** |  |  |  |  |  |
| **5** | X | X |  |  |  | **55** |  |  |  |  |  |
| **6** | X | X |  |  |  | **56** |  |  |  |  |  |
| **7** |  |  |  |  |  | **57** |  |  |  |  |  |
| **8** |  |  |  |  |  | **58** |  |  |  |  |  |
| **9** |  |  |  |  |  | **59** |  |  |  |  |  |
| **10** |  |  |  |  |  | **60** |  |  |  |  |  |
| **11** |  |  |  |  |  | **61** |  |  |  |  |  |
| **12** |  |  |  |  |  | **62** |  |  |  |  |  |
| **13** |  |  |  |  |  | **63** |  |  |  |  |  |
| **14** |  |  |  |  |  | **64** |  |  |  |  |  |
| **15** |  |  |  |  |  | **65** |  |  |  |  |  |
| **16** |  |  |  |  |  | **66** |  |  |  |  |  |
| **17** |  |  |  |  |  | **67** |  |  |  |  |  |
| **18** |  |  |  |  |  | **68** |  |  |  |  |  |
| **19** |  |  |  |  |  | **69** |  |  |  |  |  |
| **20** |  |  |  |  |  | **70** |  |  |  |  |  |
| **21** |  |  |  |  |  | **71** |  |  |  |  |  |
| **22** |  |  |  |  |  | **72** |  |  |  |  |  |
| **23** |  |  |  |  |  | **73** |  |  |  |  |  |
| **24** |  |  |  |  |  | **74** |  |  |  |  |  |
| **25** |  |  |  |  |  | **75** |  |  |  |  |  |
| **26** |  |  |  |  |  | **76** |  |  |  |  |  |
| **27** |  |  |  |  |  | **77** |  |  |  |  |  |
| **28** |  |  |  |  |  | **78** |  |  |  |  |  |
| **29** |  |  |  |  |  | **79** |  |  |  |  |  |
| **30** |  |  |  |  |  | **80** |  |  |  |  |  |
| **31** |  |  |  |  |  | **81** |  |  |  |  |  |
| **32** |  |  |  |  |  | **82** |  |  |  |  |  |
| **33** |  |  |  |  |  | **83** |  |  |  |  |  |
| **34** |  |  |  |  |  | **84** |  |  |  |  |  |
| **35** |  |  |  |  |  | **85** |  |  |  |  |  |
| **36** |  |  |  |  |  | **86** |  |  |  |  |  |
| **37** |  |  |  |  |  | **87** |  |  |  |  |  |
| **38** |  |  |  |  |  | **88** |  |  |  |  |  |
| **39** |  |  |  |  |  | **89** |  |  |  |  |  |
| **40** |  |  |  |  |  | **90** |  |  |  |  |  |
| **41** |  |  |  |  |  | **91** |  |  |  |  |  |
| **42** |  |  |  |  |  | **92** |  |  |  |  |  |
| **43** |  |  |  |  |  | **93** |  |  |  |  |  |
| **44** |  |  |  |  |  | **94** |  |  |  |  |  |
| **45** |  |  |  |  |  | **95** |  |  |  |  |  |
| **46** |  |  |  |  |  | **96** |  |  |  |  |  |
| **47** |  |  |  |  |  | **97** |  |  |  |  |  |
| **48** |  |  |  |  |  | **98** |  |  |  |  |  |
| **49** |  |  |  |  |  | **99** |  |  |  |  |  |
| **50** |  |  |  |  |  | **100** |  |  |  |  |  |

**CONTENTS**

[1.0 INTRODUCTION 4](#_Toc104237845)

[2.0 GENERAL 5](#_Toc104237846)

[3.0 bill of material list 5](#_Toc104237847)

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 )**D01 | 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 |  |
|  | H.D.G **Telephone Kiosk**, 25dB Decrease of noise | 6 | Set |  |
|  | 2.5 Meter H.D.G Pole  | 7 | 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 0.6 CU/PVC/SWA telephone cable.