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| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **DATA SHEETS FOR IRP PANEL****نگهداشت و افزایش تولید میدان نفتی بینک** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| D02 | Nov. 2024 | IFA | M.Pourdasht | M.Fakharian | M.Sadeghian |  |
| D01 | Feb. 2024 | IFA | H.Shakiba | M.Fakharian | S.Faramarzpour |  |
| D00 | Jun. 2022 | IFC | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **Client Approval** |
| **Class: 1** | **Client Doc. Number: F9Z-708941** |
| **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** |
| **1** | X | X | X |  |  | **51** |  |  |  |  |  |
| **2** | X | X | X |  |  | **52** |  |  |  |  |  |
| **3** | X | X | X |  |  | **53** |  |  |  |  |  |
| **4** | X | X | X |  |  | **54** |  |  |  |  |  |
| **5** |  | X | X |  |  | **55** |  |  |  |  |  |
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| **Technical Data Sheets For Interposing Relay Panel (IRP)** |
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| **ITEM** | **Description** | **Requirement** | **Supplier Data** |
| **1** | **Environmental Conditions (Process Basis Design, BK-GNRAL-PEDCO-000-PR-DB-0001)** |
|  | Location | Binak Oilfield in Bushehr Province |  |
|  | Max. Outdoor Ambient Temperature | 52°C | D02 |
|  | Min. Outdoor Ambient Temperature | 5°C |  |
|  | Direct Sunlight Temperature  | 85°C |  |
|  | Maximum Relative Outdoor Humidity | 100% |  |
|  | Altitude | 12.5 m Above Sea Level |  |
| **2** | **General Information** |
|  | Tag Numbers | IRP-02  |  |
|  | Quantity | 1 Set  |  |
|  | Application Standard | IPS-E-EL-100IPS-M-EL-161IPS-M-EL-143(3) |  |
|  | Manufacturer | By Vendor |  |
|  | Related Documents | Wiring Diagram for Interposing Relay Panel (IRP)“BK-GCS-PEDCO-120-EL-DG-0011”Electrical I/O Signal List“BK-GCS-PEDCO-120-EL-LI-0005”Instrument/F&G Cable List“BK-GCS-PEDCO-120-IN-LI-0009” |  |
| **3** | **Electrical Data** |
|  | Maximum Voltage | 690 V |  |
|  | Service Access | Front |  |
|  | Related Insulation Voltage | As Per IEC 61439-1 |  |
|  | Dielectric Test Voltage | As Per IPD-I-IN-100 |  |
|  | Number of Cells | By Vendor |  |
|  | Enclosure Type | Free Standing (Flore Mounted) |  |
|  | Anti Condensation Heaters | Required, 230 VAC (Power Demand: By Vendor) |  |
|  | Auxiliary Relay Type & Manufacturer | By Vendor |  |
|  | Number of Auxiliary Relay Normally Close Contacts | By Vendor |  |
|  | Number of Auxiliary Relay Open Close Contacts | By Vendor |  |
|  | ~~Auxiliary Relay Opening Voltage~~ | ~~-~~ |  |
|  | Maximum Resistance of Auxiliary Relay Coil (Ω) | By Vendor | D02 |
|  | Inrush/Holding Current of Auxiliary Relay (A) | By Vendor |  |
|  | Maximum Number of Auxiliary Relay Making Operation | By Vendor |  |
|  | Maximum Number of Auxiliary Relay Breaking Operation | By Vendor |  |
|  | Maximum Power Consumption of Auxiliary Relay | By Vendor |  |
|  | Rating of Auxiliary Relay Contacts | 230 VAC-Min 5A24 VDC-Min 2A |  |
|  | Auxiliary Relay Switching Time | <10 msec |  |
|  | Auxiliary Relay Maximum Switched Current | By Vendor |  |
|  | Terminal Type & Manufacturer | By Vendor |  |
|  | Type of Terminal | By Vendor |  |
|  | Type of Terminal Arrangement | According to “BK-GCS-PEDCO-120-EL-DG-0011” |  |
|  | Type of Interface to the System Cabinets | By Vendor |  |
|  | Auxiliary Supply for Heating & Lighting | 230 VAC (With Residual Current Device Protection) |  |
|  | Interior Lighting (One per Cell) | Required |  |
|  | Type of Interior Lighting | 230 VAC. Fluorescent  |  |
|  | Spare Space | At Least 20% as Per “BK-GCS-PEDCO-120-EL-DG-0011” |  |
|  | Type & Thickness of Enclosure | Sheet Steel 2 mm |  |
|  | Degree of Protection | IP 54 (Indoor Safe) |  |
|  | Dimension of Cabinet (L, H, W) | By Vendor |  |
|  | Cable Entry | From Bottom |  |
|  | Type of Door | Lockable-Hinged Door |  |
|  | Wire Duct | Required |  |
|  | Lifting Lug | Required |  |
|  | Gland Plate | Removable Undrilled Plate |  |
|  | Grounding Terminal | Required |  |
|  | Size of Ground Cable | 16 mm2 |  |
|  | Painting | RAL 7035 |  |
|  | Thickness of Painting | 60-80 Micron |  |
|  | Electrical Tests | According to IPS-M-EL 143(3) |  |

Note 1: All required accessories shall be considered by vendor according to project specifications.

Note 2: Required standards are as below:

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* Specification For Control System (BK-GNRAL-PEDCO-000-IN-SP-0002)
* Specification For ESD System (BK-GNRAL-PEDCO-000-IN-SP-0003)
* Specification For Fire & Gas Sensor and Devices (BK-GNRAL-PEDCO-000-IN-SP-0009)

Note 3: IRP Arrangement Layout in Switchgear Building Shall Be Submitted at Bid Stage By Vendor To Check Free Space, Because Of Space Limit In Switchgear Building.