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| **طرح نگهداشت و افزایش تولید 27 مخزن** | | | | | | | |
| **Standard Detail Drawing for Pressure Vessels and Heat Exchangers**  **نگهداشت و افزایش تولید میدان نفتی بینک** | | | | | | | |
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| D01 | AUG. 2022 | IFI | H.Adineh | M.Fakharian | M.Mehrshad |  |
| D00 | AUG. 2021 | IFI | M.Asgharnejad | M.Fakharian | Sh.Ghalikar |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **CLIENT Approval** |
| **Class: 2** | | **CLIENT Doc. Number: F2C-707123** | | | | |
| **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 |  |  |  | **66** |  |  |  |  |  |
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| **3** | X | X |  |  |  | **68** |  |  |  |  |  |
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| **21** | X | X |  |  |  | **86** |  |  |  |  |  |
| **22** | X | X |  |  |  | **87** |  |  |  |  |  |
| **23** | X | X |  |  |  | **88** |  |  |  |  |  |
| **24** | X | X |  |  |  | **89** |  |  |  |  |  |
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| **27** | X | X |  |  |  | **92** |  |  |  |  |  |
| **28** | X | X |  |  |  | **93** |  |  |  |  |  |
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| **31** | X | X |  |  |  | **96** |  |  |  |  |  |
| **32** | X | X |  |  |  | **97** |  |  |  |  |  |
| **33** | X | X |  |  |  | **98** |  |  |  |  |  |
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| **38** | X | X |  |  |  | **103** |  |  |  |  |  |
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| **42** | X | X |  |  |  | **107** |  |  |  |  |  |
| **43** | X | X |  |  |  | **108** |  |  |  |  |  |
| **44** | X | X |  |  |  | **109** |  |  |  |  |  |
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| **49** | X | X |  |  |  | **114** |  |  |  |  |  |
| **50** | X | X |  |  |  | **115** |  |  |  |  |  |
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1. **INTRODUCTION**

Binak oilfield in Bushehr province, 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.

**GENERAL DEFINITION**

The following terms shall be used in this document.

D01

|  |  |
| --- | --- |
| CLIENT: | National Iranian South Oilfields Company (NISOC) |
| PROJECT: | Binak Oilfield Development – General Facilities |
| GENERAL 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:  D01 | 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**

The purpose of this document is to provide the standard drawings for the all accessories of pressure vessels and heat exchangers used in this project.

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

1. **NORMATIVE REFERENCES**

D01

## The latest edition of following codes & standards are applicable in this project (unless otherwise mentioned):

## Local Codes and Standards

* IPS-G-ME-150 Iranian Petroleum Standard– Engineering & Material Standard for Towers , Reactors, Pressure vessels & Internals
* IPS-M-PI-130 Iranian Petroleum Standard–Material & Equipment Standard for Pig Launching & Receiving Traps
* IPS-E-PI-240 Iranian Petroleum Standard– Engineering Standard for Plant Piping Systems
* IPS-G-GN-210 Iranian Petroleum Standard–General Standard for Packing & Packages
* IPS-E-CE-210 Iranian Petroleum Standard–Engineering Standard for Steel Structures
* IPS Standard Drawings
  + IPS-D-ME-002 Lifting Lug to Lift Vessels Up to 60 Tons
  + IPS-D-ME-003 Lifting Lug to Lift Vessels Up to 200 Tons
  + IPS-D-ME-010 Vertical Vessels Support Skirt
  + IPS-D-ME-011 Support Leg and Base
  + IPS-D-ME-030 Vortex Breaker
  + IPS-D-ME-031 Baffle for Column and Drum
  + IPS-D-ME-042 Hinge & Davit Details Manholes
  + IPS-D-ME-100 Nameplate for Pressure Vessels
  + IPS-D-ME-101 Nameplate & Name Plate Holder for Heat Exchanger
  + IPS-D-ME-104 Saddle Details for Horizontal Vessels
  + IPS-D-ME-200 Typical Details Vessels Ladders & Platforms

## International Codes and Standards

* ASME American Society of Mechanical Engineers
  + Sec .VIII Rules for Construction of Pressure Vessels-Design
  + B 31.3 Chemical Plant and Petroleum Refinery Piping
  + B 31.8 Gas Transportation & Distribution Piping Systems
  + B 31.8 Gas Transportation & Distribution Piping Systems
  + B 16.5 Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24
  + B 16.9 Steel Butt Welding Fitting
  + B 16.11 Forged Steel Fittings
  + B 16.20 Metallic Gaskets for Pipe Flanges – Ring Joint Gaskets, Spiral Wound and Jacketed
  + B 16.21 Non- Metallic Gasket for Pipe Flanges
  + B 16.47 Large Diameter Steel Flanges NPS 26 Through NPS 60
  + B 1.20.1 Pipe Threads, General Purpose
* API 5L Specification for Line Pipes
* AISC Manual of Steel Construction

## The Project Documents

* BK-GNRAL-PEDCO-000-ME-SP-0001 Specification for Pressure Vessels
* BK-GNRAL-PEDCO-000-PI-SP-0001 Specification for Insulation
* BK-GNRAL-PEDCO-000-PI-SP-0004 Specification for Metallic Pipes
* BK-GNRAL-PEDCO-000-PI-SP-0005 Specification for Fittings, Flanges, Gaskets and Bolts
* BK-GNRAL-PEDCO-000-PI-SP-0006 Specification for Painting