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| **طرح نگهداشت و افزایش تولید 27 مخزن** | | | | | | | |
| **PDMS MODEL REVIEW REPORT (60%) - W035**  **نگهداشت و افزایش تولید میدان نفتی بینک** | | | | | | | |
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| D00 | FEB. 2023 | IFC | M.Noori | M.Fakharian | M.Mehrshad |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **CLIENT Approval** |
| **Class:2** | | **CLIENT Doc. Number:** **F0Z-707756** | | | | |
| **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 |  |  |  |  | **66** |  |  |  |  |  |
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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, construction of well location, access road, wellhead facilities for W035 shall be done. In addition, construction of new flowline from aforementioned well location to Binak B/C unit are in the Project scope of work.

**GENERAL DEFINITION**

The following terms shall be used in this document.

|  |  |
| --- | --- |
| CLIENT: | National Iranian South Oilfields Company (NISOC) |
| PROJECT: | Binak Oilfield Development – Construction of Well Location, Wellhead Facilities & Flowline for W028 |
| 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. **Scope**

This document presents all raised issues and made decisions during 60% model review session of PROJECT which should be followed and performed during continuation of PROJECT.

1. **NORMATIVE REFERENCES**

## The Project Documents

* BK-GNRAL-PEDCO-000-PI-PR-0001 3D-Model (PDMS) Review Procedure

## Order of Precedence

In case of any conflict between the contents of this document or any discrepancy between this document and other project documents or reference standards, this issue must be reported to the CLIENT. The final decision in this situation will be made by CLIENT.

1. **KEY OBJECTIVES**

The purpose of 60% Model Review is to freeze any detail design of disciplines and to hand over to a production work. The following objectives shall be addressed during the model review:

1. Confirm compliance with project specifications with regard to access for equipment, valves, instruments, and other components to be operated.
2. Confirm whether sound design has been observed with regard to safety, operability and maintainability.

The model minimum content for the 60% model review shall be:

* + Other piping (line sizes equal and greater than 2") with insulation information mostly completed.
  + Orientation of major ladders/stairs/platforms on vessels and columns.
  + Major platforms for valves and equipment and operation.
  + Permanent cranes and hoisting beams.
  + Dimensions of table tops, structures and steel construction.
  + Secondary steelworks and bracing.
  + Eye washer and safety shower locations.
  + Firefighting system (hydrants, monitors, water spray systems, deluge valve manifolds).
  + Instrument mounting stands, junction boxes, panels and cabinets of field.
  + Above ground instrumentation, telecommunication and electrical cable tray routing above 300 mm.

Substantial review and comments by CLIENT / EPC/EPD CONTRACTOR of the plant model will be completed at the 60% model complete stage. The model will be updated reflecting comments to CLIENT’s verification.

1. **STATISTICS**

The followings indicate the number of modeled major items which were reviewed during 60% model review:

* + Number of modeled equipment: 2
  + Number of modeled A/G and U/G Lines: 8
  + Number of modeled shelter, structure and building
  + Electrical main trench
  + Instrument main cable trench

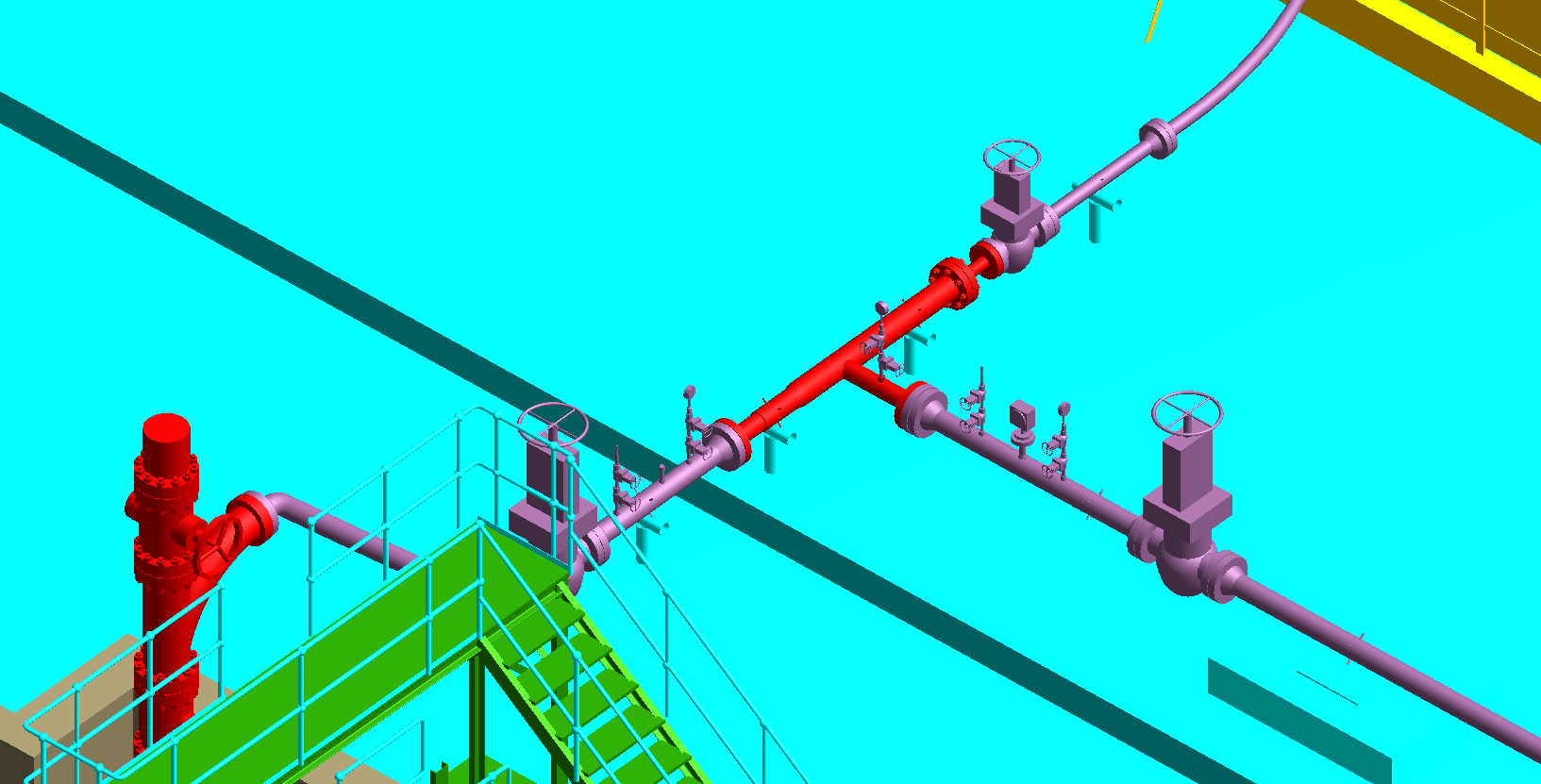
1. **DESCRIPTION AND CONCLUSIONS**

The 60% model review for “Binak Oilfield Development – Construction of Well Location, Wellhead Facilities & Flowline for W035” was held with representatives of CLIENT, EPD/EPC CONTRACTOR (GC) and EPC CONTRACTOR, on 1401/02/21. The subjects of discussion for the meeting were organized and considered based on the following issues:

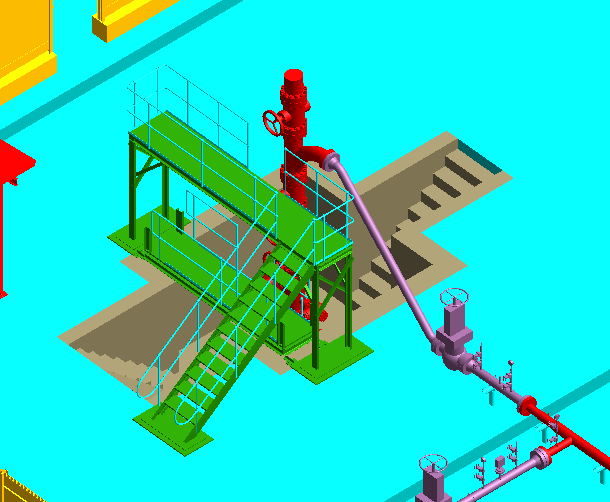
* General layout and arrangement,
* Operation access rooms,
* Maintenance requirements,
* Installing location for instruments, platforms, and access to instruments,
* Lineup of primary lines.

It was stated that following items should be checked and corrected during 90% modeling and would be reviewed in 90% model review meeting:

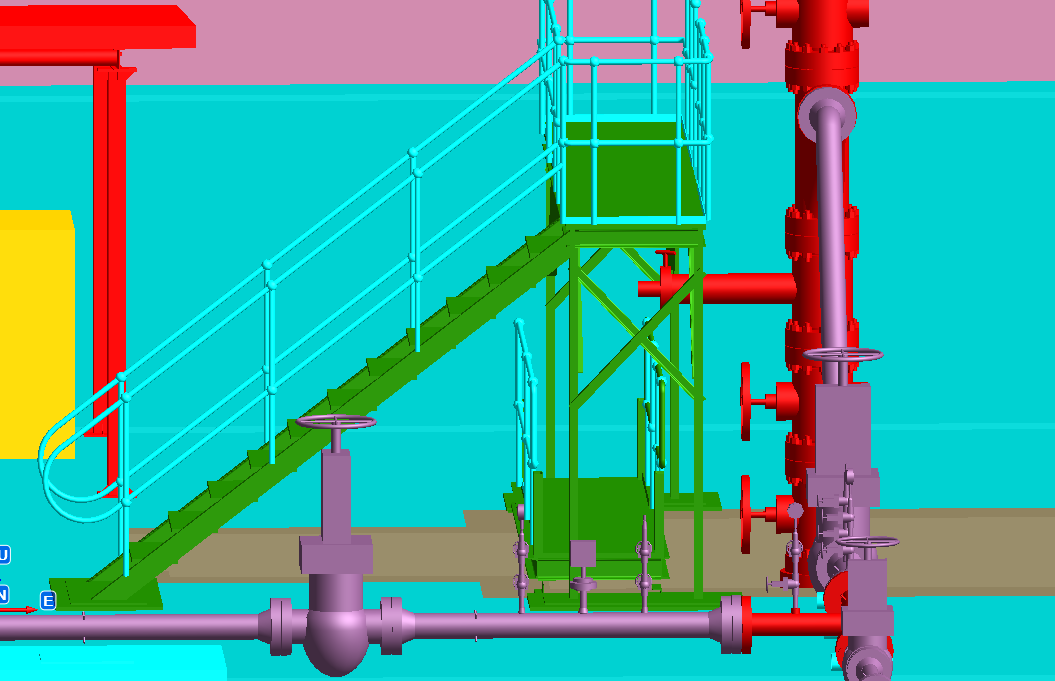
## Wellhead Sampling Points to be shown properly in 3D Model.



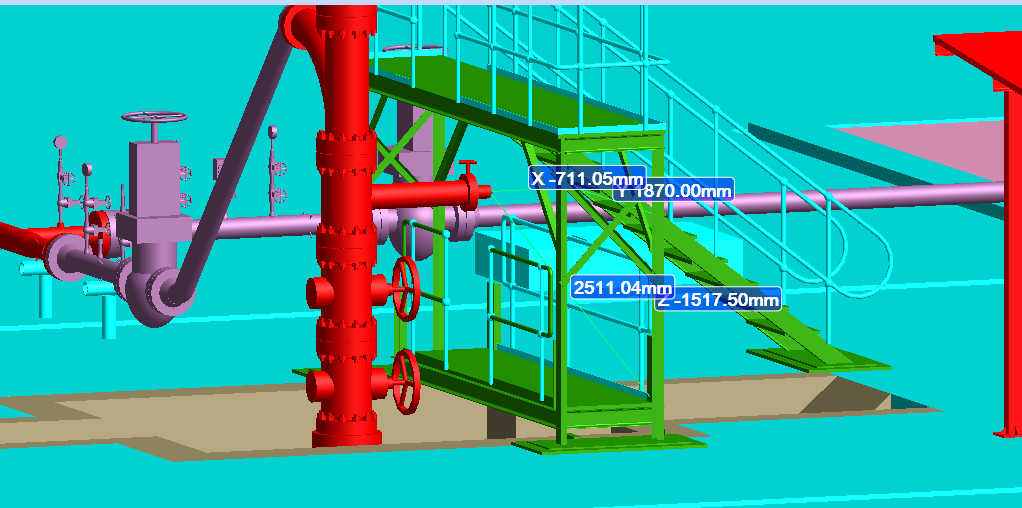
## Platform ladder is not accepted and shall be replaced with a stair.



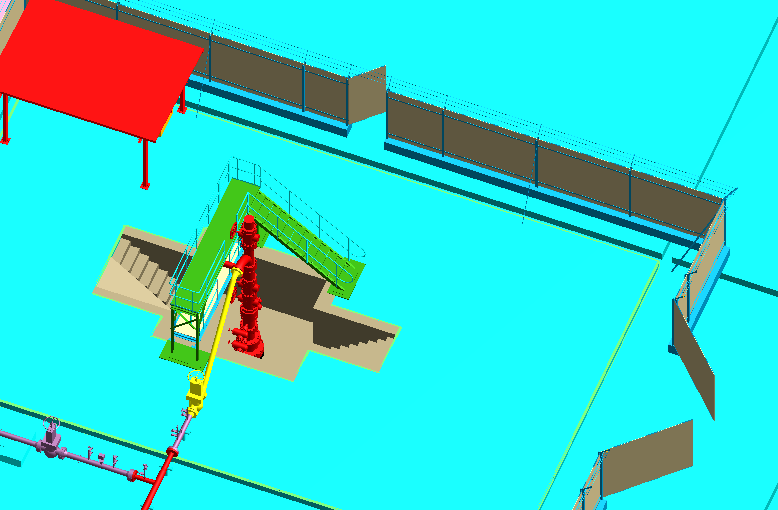
## Access to valves shall be considered in such a way that the walkway is not blocked.



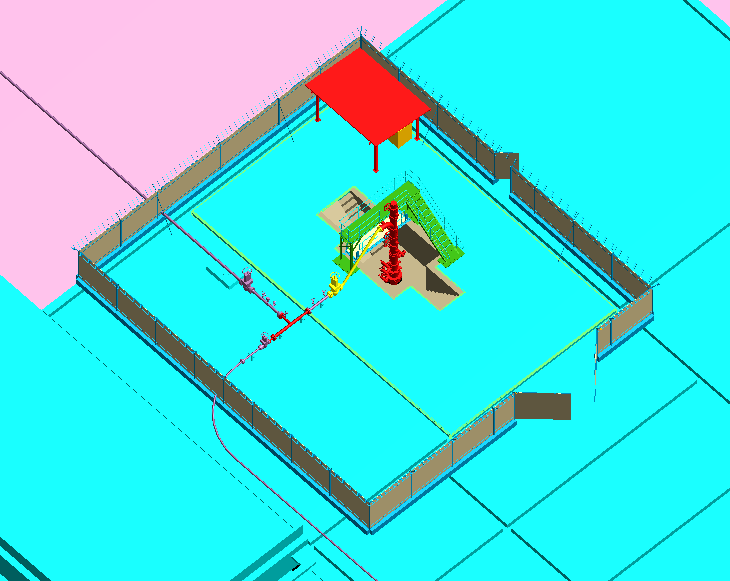
## First platform shall be located in front of valve hand wheel and the elevation of safety valve shall be 1.6m



## Platform ladder shall be located near emergency gate.



## Tubing route shall be illustrated in 90% 3D model.



## According to burn pit elevation, Drain shall be considered for 4” line.



1. **ATTACHEMENT 1**
2. **ATTACHEMENT 2**