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شماره پیمان: 053 - 073 - 9184

| ARCHITECTURAL DESIGN CRITERIA | | | | | | | | |
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طرح نگهداشت و افزایش تولید 27 مخزن

ARCHITECTURAL DESIGN CRITERIA

نگهداشت و افزایش تولید میدان نفتی بینک

| Rev. | Date | Purpose of Issue/Status | Prepared by: | Checked by: | Approved by: | CLIENT Approval |
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| D01 | MAY. 2022 | IFA | R.Berlouie | M.Fakharian | M.Mehrshad | |
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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



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1.0 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.

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT: National Iranian South Oilfields Company (NISOC)

PROJECT: Binak Oilfield Development – General Facilities

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.

2.0 SCOPE

This document covers minimum necessary requirements for the design, construction, and inspection of PROJECT's buildings, including Gas Compression Station's newly built and extension buildings, and well maintenance facilities.

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





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3.0 NORMATIVE REFERENCES

3.1 LOCAL CODES AND STANDARD

| • | IPS-E-CE-200 | Engineering Standard For Concrete Structures | | | | |
|---|-----------------|---|--|--|--|--|
| • | IPS-C-CE-200 | Construction Standard For Concrete Structures | | | | |
| • | IPS-E-CE-500 | Engineering Standard For Loads | | | | |
| • | IPS-M-CE-105(2) | Material Standard For Building Materials | | | | |
| • | IPS-E-CE-120 | Engineering Standard For Foundations | | | | |
| • | IPS-E-CE-130 | Engineering Standard For Piles | | | | |
| • | IPS-C-CE-112 | Construction Standard For Earthworks | | | | |
| • | IPS-C-CE-132 | Construction Standard For Foundations, Piles, Retaining Walls | | | | |
| • | IPS-C-TP-102 | Construction Standard for Painting | | | | |
| • | IPS-G-SF-900 | General Standard for Noise Control & Vibration | | | | |
| • | IPS-G-IN-220 | Engineering & Installation Standard for Control Centres | | | | |
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Neufert Architect's Data

Bulletin 178 will be followed for the non-industrial buildings' surfaces

NIOC seismic design code for petroleum facilities and structures publication no. 038-3rd.

NPCS – National Petrochemical Company's standards for foot path and access roads.

NPCS-ES-ST-08 Engineering Standard for Building
 NPCS-CS-ST-08 Construction Standard for Building

IBC International Building Code

 State Management and Planning Organization (Bulletin No. 55 of State Management and Planning Organization)

 Iran National Building Code Structural Design Criteria) Chapter 3, 5, 19 (Refer To Specification for Civil &

3.2 INTERNATIONAL CODES AND STANDARD

• ASTM American Society for Testing Materials Relevant Parts

(A36/A36M, A185, A307, A497, A615, C31, C39, C90, C91, C94, C126, C143, C145, C150, C156, C216,

C260, C309, C476, C494, C595, C652, D698)

• American Codes:

UBC
 Uniform Building Code





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UMC
 Uniform Mechanical Code

o UFC Uniform Fire Code

o IPC International Plumbing Code

Safety Code:

NPFA
 National Fire Protection Association

Other International Standards:

IEC 364 Electrical Installation Requirements
 ISO 31/VII Quantities and Units of Acoustics
 ISO140-9 Room-to-room sound attention

Solution in Sol

ISO717-Part 2 Airborne sound insulation of façade

IRI Design Code 2800 Iranian Building Seismic Design Code – Standard no.

2800

National Building Code
 Iranian National Building Codes (All Chapters 1-22)

Construction Instructions
 Bulletin No. 55 Of Iranian State Management and

Planning Organization

BSI British Standard Institution (BS 4449, BS 4483, BS5628)

ANSI American National Standards Institute (A10.9)
 ASCE American Society of Civil Engineers (ASCE 7-05)

ACI
 American Concrete Institute (ACI 214, ACI 301, ACI

302, ACI 305, ACI 308, ACI 309, ACI 318, ACI 315, ACI 350R, ACI 347, ACI 530 1-95, ACI 304R, ACI 117, ACI

212-3R, ACI 222R, ACI 224-3R)

STI (Steel Door Institution)

Under Writers Labratories

When national Codes do not conform to International Standards, the more restrictive standard will govern.

-In case of contradiction, the following order of precedence shall apply:

This Specification

The other Project Specifications listed hereafter

American Codes and Standards

3.3 THE PROJECT DOCUMENTS

BK-GNRAL-PEDCO-000-PR-DB-0001

Process Basis of Design





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3.4 ENVIRONMENTAL DATA

Refer to "Process Basis of Design, document number BK-GNRAL-PEDCO-000-PR-DB-0001" section 7.

3.5 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 the CLIENT.

3.6 ABBREVIATIONS

Industry standard abbreviations shall take their usual meaning. Outlined herein are the most common, which may be used in this and other project documents:

AFC Approved For Construction

ANSI American National Standards Institute

API American Petroleum Institute

ASME American Society of Mechanical Engineers
ASTM American Society for Testing and Material

BS British Standard

HSE Health ,Safety & Environment

HVAC Heating Ventilation and Air Conditioning

IP Ingress Protection

IPS Iranian Petroleum Standard

ISO International Organization for Standardization

NISOC National Iranian South Oil Company

3.7 UNITS

SI metric system of measurement including "°C" and "bar" shall be used in design of the buildings.



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4.0 BASIS OF BUILDING DESIGN

4.1 GENERAL

As mentioned earlier, this document covers only the minimum requirements for the design, material supply and construction of buildings. Deviations are only allowed to adapt materials to the local market, or to update the design to meet local laws, regulations and other requirements that may arise during the detailed engineering phase.

The design of buildings shall include:

- a) Above ground shelters and buildings.
- b) External and internal walls.
- c) Ground and roof slabs.
- d) Internal and external finishing.
- f) Technical installations that include:
 - HVAC system
 - Plumbing
 - Electrical and Lighting
 - Instrumentation and Telecommunication
 - Fire-fighting system.

4.2 DOCUMENTS

The following engineering documents shall be produced during the Detail Design phase. All documents for construction shall be prepared using the latest version of AUTOCAD software, with the actual version subject to approval:

- a) Architectural documents.
- b) Structural and foundation documents.
- c) Electrical and telephone system documents.
- d) Plumbing and sanitary system documents.
- e) HVAC system documents.
- f) Safety system documents.
- g) All other details for complete supply of materials and construction.



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The battery limit for the design of the building services is at buildings sidewalks boundary.

The layout for the buildings shall be shown on the applicable building drawings. During the Detailed Design phase, all building dimensions shall be developed based on actual selected equipment size, systems, and maintenance clearance requirements and other operational considerations as approved.

It is noteworthy to mention that newly built buildings inside the site shall follow above building types according to their usage and safety requirements.

5.0 CONSTRUCTION TYPES

The following table should be considered as the PROJECT's building types:

| No. | Building Type |
|-----|--------------------|
| 1 | Non-Blast Building |
| 2 | Shelter Building |
| 3 | Blast Building |

All building shall be surrounded by concrete pavement, unless otherwise stated. (Minimum width 1.2 m)

5.1 NON-BLAST BUILDINGS

All exterior walls shall be "cavity walls" with 2 layers of brick-wall and thermal insulation; details shall follow technical requirements. Facades shall be covered by White/Colored Abbasabad travertine stone (super fine grade).

Wall base shall be covered by white travertine stone (h = 40cm above surrounding pavement), unless otherwise stated.

5.2 SHELTER BUILDINGS

Walls of shelter buildings like workshops shall be considered at least 3 m of height, and the rest shall be covered by sandwich panel, unless otherwise stated.

The joint of masonry wall and sandwich panels shall be sealed using proper detail.



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Wall base shall be covered by white travertine stone (h = 40cm above surrounding pavement), unless otherwise stated.

5.3 BLAST BUILDINGS

Concrete walls shall be cleaned thoroughly and get fine improvement before painting. Facades shall be covered by White/Colored Abbasabad travertine stone (super fine grade).

Wall base shall be covered by white travertine stone (h = 40cm above surrounding pavement), unless otherwise stated.

5.4 BUILDING TYPES

The building types covered within the scope this PROJECT are:

- Control Building (type III)
- Extensions of Existing Electrical Buildings (type I and type III)
- Gas Compressor Shelter (type II)
- Chemical Injection Packages/Chemical Storage Shelter (type II)
- Utility Shelter (type II)
- Fire Water Pumps Shelter (type II)
- Fire Shed (type II)
- Diesel Generator Shelter of Well Pads Work-over and New Wells (type II)
- Switchgear Building of Well Pads work-over and New Wells (type I)
- Wellhead Control Panel / Hydraulic Power Unit Shelter of Well Pads New wells(type II)
- Security Building of Well Pads work-over and New Wells(type I)

6.0 SAFETY MEASURMENTS

All buildings shall comply with local and international codes and standards for HSE, whichever are stricter. CONTRACTOR shall control the compliance in detail design, construction, and procurement phases. For the detail refer to the PROJECT's safety layouts and specifications.



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7.0 APPLICABLE DOCUMENTS

The following is the list of documents that this "Design Criteria" is applied to:

| Architectural Drawing For WHCP/HPU Shelter of Well Pads - W018 | BK-W018S-PEDCO-110-AR-DW-0001 |
|---|-------------------------------|
| Architectural Drawing For WHCP/HPU Shelter of Well Pads - W028 | BK-W028-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For Diesel Generator Shelter of Well Pads - W046S | BK-W046S-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For WHCP/HPU Shelter of Well Pads - W046S | BK-W046S-PEDCO-110-AR-DW-0002 |
| Architectural Drawing For Switchgear Building of Well Pads - W046S | BK-W046S-PEDCO-110-AR-DW-0003 |
| Architectural Drawing For Security Building of Well Pads - W046S | BK-W046S-PEDCO-110-AR-DW-0004 |
| Architectural Drawing For WHCP/HPU Shelter of Well Pads - W035 | BK-W035-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For WHCP/HPU Shelter of Well Pads - W008N | BK-W008N-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For Diesel Generator Shelter of Well Pads - W007S | BK-W007S-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For WHCP/HPU Shelter of Well Pads - W007S | BK-W007S-PEDCO-110-AR-DW-0002 |
| Architectural Drawing For Switchgear Building of Well Pads - W007S | BK-W007S-PEDCO-110-AR-DW-0003 |
| Architectural Drawing For Security Building of Well Pads - W007S | BK-W007S-PEDCO-110-AR-DW-0004 |
| Architectural Drawing For Diesel Generator Shelter of Well Pads - BK-14 | BK-BK14-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For Switchgear Building of Well Pads - BK-14 | BK-BK14-PEDCO-110-AR-DW-0002 |
| Architectural Drawing For Security Building of Well Pads - BK-14 | BK-BK14-PEDCO-110-AR-DW-0003 |
| Architectural Drawing For Diesel Generator Shelter of Well Pads - BK-12 | BK-BK12-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For Switchgear Building of Well Pads - BK-12 | BK-BK12-PEDCO-110-AR-DW-0002 |
| Architectural Drawing For Security Building of Well Pads - BK-12 | BK-BK12-PEDCO-110-AR-DW-0003 |
| Architectural Drawing For Diesel Generator Shelter of Well Pads - BK-15 | BK-BK15-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For Switchgear Building of Well Pads - BK-15 | BK-BK15-PEDCO-110-AR-DW-0002 |
| Architectural Drawing For Security Building of Well Pads - BK-15 | BK-BK15-PEDCO-110-AR-DW-0003 |
| Architectural Drawing For Diesel Generator Shelter of Well Pads - BK-05 | BK-BK05-PEDCO-110-AR-DW-0001 |
| Architectural Drawing For Switchgear Building of Well Pads - BK-05 | BK-BK05-PEDCO-110-AR-DW-0002 |
| Architectural Drawing For Security Building of Well Pads - BK-05 | BK-BK05-PEDCO-110-AR-DW-0003 |
| Architectural Detail Drawing For Control Building | BK-GCS-PEDCO-120-AR-DW-0001 |
| Architectural Detail Drawing For Extension of Existing Elect. Building | BK-GCS-PEDCO-120-AR-DW-0002 |
| Architectural Drawing For Gas Compressors Shelter | BK-GCS-PEDCO-120-AR-DW-0003 |
| Architectural Drawing For Chemical Inj. Packages/Chemical Storage Shelter | BK-GCS-PEDCO-120-AR-DW-0004 |
| Architectural Drawing For Utility Shelter | BK-GCS-PEDCO-120-AR-DW-0005 |
| Architectural Drawing For Fire Water Pumps Shelter | BK-GCS-PEDCO-120-AR-DW-0006 |
| Architectural Drawing For Fire Shed | BK-GCS-PEDCO-120-AR-DW-0007 |



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8.0 SUBMITTAL

The CONTRACTOR shall submit the architectural design to the client for approval during the detail design. The submittals shall include, but not limited to, the following:

- Drawings showing proposed layout of architecture work, indicating material types and quantities.
- Schedules showing program of implementation for each type of architecture work.
- Samples of all materials to be used in the project shall be submitted upon request of the CLIENT.
- A comprehensive "Operations and Maintenance Manual" shall be compiled by the contractor and submitted to the CLIENT for approval.