

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض</p> <p>عمومی و مشترک</p>								
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	BK	GNRAL	PEDCO	000	PL	SP	0007		D03

## طرح نگهداشت و افزایش تولید 27 مخزن

## SPECIFICATION FOR PIPELINE COATING

### نگهداشت و افزایش تولید میدان نفتی بینک

D03	DEC. 2021	AFD	H.Shahrokhi	M.Fakharian	M.Mehrshad	
D02	OCT. 2021	IFA	H.Shahrokhi	M.Fakharian	Sh.Ghalikar	
D01	SEP. 2021	IFA	M.Asgharnejad	M.Fakharian	Sh.Ghalikar	
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Class: 2

CLIENT Doc. Number:

#### 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

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>عمومی و مشترک</p>							
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### REVISION RECORD SHEET





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 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>عمومی و مشترک</p>							 شرکت توسعه و پارس  HIRGAN ENERGY 
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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.

### GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields CLIENT (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 CLINET (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 CLINET rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR.
MAY:	Is used where a provision is completely discretionary.

## 2. SCOPE

This Specification covers minimum requirements for coating of pipelines in this PROJECT with below condition:

	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض</p> <p>عمومی و مشترک</p>							
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- Dehydrated Gas Pipeline from Binak-GCS to Siahmakan
- Size: 8"
- Length: 44 km
- Operating Temperature: 60 °C,
- Operating Pressure: 51.9 Barg
- Design Temperature: 85 °C
- Design Pressure: 62 Barg

### 3. REFERENCES (MOD.)

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

#### 3.1 LOCAL CODES AND STANDARDS

- IPS-E-TP-270 Engineering standard for coating
- IPS-C-TP-101 Construction standard for surface preparation
- IPS-C-TP-274 Construction standard for coating
- IGS-M-TP-026 External Dual Layer Fusion Bonded Epoxy Coating for Line Pipe
- IGS-M-TP-027 Standard for External Liquid Epoxy Coating for Rehabilitation and Repair of Buried Steel Pipelines, Bends, Field Joints, Valves and Fittings

#### 3.2 INTERNATIONAL CODES AND STANDARDS

- CSA Z245.20 -18 Plant-applied external fusion bond epoxy coating for steel pipe
- ISO 21809-2 External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 2: Fusion-bonded epoxy coatings
- ISO 21809-3 External Coatings for Buried and Submerged Pipelines Used in Pipeline Transportation Systems – Part3: Field Joint Coatings
- SSPC-SP 5 Surface Preparation Specifications No.5: White Metal Blast Cleaning
- SSPC-SP 10 Surface Preparation Specifications No.10: Near White Blast Cleaning
- API RP 5L9 External Fusion Bonded Epoxy Coating of Line Pipe

#### 3.3 THE PROJECT DOCUMENTS

- BK-GNRL-PEDCO-000-PL-SP-0001 Pipeline Material Specification

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- BK-GNRAL-PEDCO-000-PL-DC-0001 Pipeline Design Criteria
- BK-GNRAL-PEDCO-000-PR-DB-0001 Process Basis of Design
- BK-GNRAL-PEDCO-000-PL-SP-0012 Specification For Pipeline Construction

### 3.4 ENVIRONMENTAL DATA

Refer to "Process Basis of Design; Doc. No. BK-GNRAL-PEDCO-000-PR-DB-0001".

### 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 CLIENT.

## 4. ADDENDUM / MODIFICATION TO IGS

This part of specification is based on the latest editions of IGS-M-TP-026 "External Dual Layer Fusion Bonded Epoxy Coating for Line Pipe" with modification as follow:

- 1- An anti UV layer as third layer shall be applied according to manufacturer's recommendations.
- 2- For any repairing or recoating, before any coating work, the painter/ applicator shall be introduced to CLINET's representative (Material Corrosion Office).
- 3- Coating of filed joint shall be same as pipeline (FBE).
- 4- ITP/QCP of pipeline coating, filed joints coating and repair material shall be sent to CLINET for approval.
- 5- Specification of raw material shall be sent to CLIENT for approval.
- 6- Contractor to purchase all equipment required for quality control tests such as DFT and WFT measurement gauge, "pull-off" and "cross-out" adhesion detector, holiday detector and any other required equipment in accordance with specification.
- 7- Loading & unloading, handling and depot of coated pipes shall be carried out in accordance with instructions of coat manufacturer under supervision of CLIENT's representative (Material Corrosion Office). CONTRACTOR is responsible for any damages to pipes coat during storage time.
- 8- Requirements and necessity of rock shields shall be specified by CLIENT in accordance with specification for Rock Shield.