
	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																	
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## طرح نگهداشت و افزایش تولید ۲۷ مخزن

## MTO FOR PAGA

## نگهداشت و افزایش تولید میدان نفتی بینک



D03	May. 2024	FI	H.Shakiba	M.Fakharian	S.Faramarzpour	
D02	Feb. 2023	FI	H.Shakiba	M.Fakharian	M.Mehrshad	
D01	Sep. 2022	IFI	H.Shakiba	M.Fakharian	M.Mehrshad	
D00	May. 2022	IFI	H.Shakiba	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 3

Client Doc. Number: F8Z-709096

### 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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### REVISION RECORD SHEET



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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.

As a part of the Project, a New Gas Compressor Station (adjacent to existing Binak GCS) shall be constructed to gather of 15 MMSCFD (approx.) associated gases and compress & transfer them to Siahmakan GIS.

### GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields CLIENT (NISOC)
PROJECT:	Binak Oilfield Development – Surface Facilities; New Gas Compressor Station
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.




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## 2.0 GENERAL

- This document presents the item material requisitions for Contractor's use as appropriate.
- This material requisition covers the requirements for the design, manufacturing, testing and supply of **PAGA SYSTEM** as listed below.




The supplier shall supply Telephone System. The supplier shall include in the supply, all other equipment/devices/items not listed in the following, but necessary for a good design and a safe operation, taking into account process data and installation conditions such as area classification and climatic conditions.

The grade of shop assembly of the equipment/devices/items supplied shall be at maximum extent to facilitate site erection and pre-commissioning activities.



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### 3.0 BILL OF MATERIAL LIST

Item	Description	Design	Unit	Remark
1	<b>IP-Based PAGA Unit:</b> Centralized Communication System for Intercom, PA and General Alarm Data Transmission through a Standard IP Ethernet-Network according to DIN EN 60849/VDE 0828 installed in 19" rack swing standalone WxHxD:800x2000x800 mm/ 40 HU, With 100mm Base, RAL 7035 Equipped with: - Controller - Power Module <b>- 4x Amplifier Class D 19" 250W/100V (Total 1000 W in operation with considering N+1 Configuration)</b> - Tone Generator Module - Zone selection module - 230VAC - 1x SIP link to PABX - Relay Contact with F&G - 1x AM/FM radio / CD / mp3 player 2HU/19" - Customized Software programmed & ready to site connection - SIP Interface to radio System - Service Laptop including software - MDF Terminal	1	Set	
2	<b>Master Call Station:</b> IP21, Desktop mounted including keyboard and Neck swan MIC	1	Set	
3	<b>28 Unit Rack 19"</b> with full accessories and earth bar (Light, fan, power socket...)	1	Set	
4	LAN Switch Layer 2 , 24x 10/100/1000 Base T +2 SFP Module	1	Set	
5	<b>Ceiling Loudspeaker: Flush Mounted</b> Ceiling Loud speaker 5 watt at 100 V ,with matching transformer 1.5, 3, 6W, Frequency Range 70 Hz to 20 kHz , SPL 90 dB (1watt/1m ) and <b>SPL 96 dB (6w/1m)+local JB</b>	7	Set	CCR

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Item	Description	Design	Unit	Remark
6	<b>Indoor Horn Loudspeaker:</b> Weather proof pressure chamber Loud speaker 15/25 watt at 100 V, Adjustable Sound level, Frequency Range, Frequency Range 300Hz to 6 kHz, with matching transformer 3,6,12W, SPL 108 dB (1watt/1m ) and <b>SPL 118 dB (12w/1m), Pole mounting with U-shaped , <u>non-rusting stainless steel Bracket, IP54</u></b>	0	Set	
7	<b>Weather Proof 30 watts:</b> Weather proof pressure <b>Loud speaker 30 watt at 100 V</b> , Adjustable Sound level, Frequency Range 300Hz to 6 kHz, with matching transformer 6,12,25W, SPL 108 dB (1watt/1m ) so it can be used in low power case too ,and <b>SPL 121 dB (30w/1m),AL/ABS/fiber glass reinforced plastic enclosure</b> , Pole mounting with <u>U-shaped, non-rusting stainless steel Bracket, IP65</u>	16	Set	Outdoor CGS Area
8	<b>Weather Proof Flash Beacon , Yellow Color,5 Joule</b>	12	Set	For noisy area
9	<b>Explosion proof Call Station: IP 65</b> Digital Explosion proof Call station <u>with Hood-</u> - Break Glass housing for the unit party line /speech key master/ conference cancellation keys, volume control functions, with speech memory <b><u>Equipped with 2m H.D.G pole</u></b>	2	Set	
10	<b>Explosion Proof Flash Beacon , Yellow Color,5 Joule</b>	2	Set	
11	<b>HDG Pole</b> seamless industrial Hot dipped Galvanized & base plate including <b>adaptor for 4 speakers</b> <b>Note; The right height for Horn Loud Speakers pole is around 4 m High.</b> More than this height the loss sound power will be high amount.	4	Set	
12	<b>Outdoor Metal box for Intercom Station, Explosion proof, IP65</b> ,with all required explosion proof cable glands For <u>4Px0.8 mm cable And required terminal</u> , <b>2X M20 Gland and Terminal</b> mounting accessories and blind plug	2	Set	
13	<b>Outdoor Metal Type WP PJB for Loud speakers</b> , with all required cable glands, mounting accessories and blind plug	4	Set	

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Item	Description	Design	Unit	Remark
	10 xM20 Gland and Terminal			
14	Indoor AL material PJB for Paging, IP42, with all required cable glands .Capable to install inside the building Minimum 2x M25 Gland Bottom and 5 No.M20 Gland in Top and Terminal	1	Set	
15	Indoor Loud Speaker Cable , CU/PVC/ XLPE ,3X1.5 mm 2, LSZH <b>Fire Resistance</b>	100	m	 D03
16	Outdoor Loud Speaker Cable, 3x4mm2, TWISTED, PAIR, FLAME RETARDANT, <b>Fire Resistance</b> , CU/PVC/XLPE,SWA	1000	m	
17	Outdoor Loud Speaker Cable, 3x2.5 mm2, TWISTED, PAIR, FLAME RETARDANT, <b>Fire Resistance</b> , CU/PVC/XLPE,	200	m	
18	Outdoor Intercom cable ,A2Y(St)2Y, 4x2x0.8mm	1000	m	
19	Outdoor LV Power cable ,3x2.5 mm2 , CU/XLPE/SWA	1000	m	For Flashers