
	<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 27 مخزن

PMR FOR F&G SYSTEM

نگهداشت و افزایش تولید میدان نفتی بینک



D00	AUG. 2023	IFI	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 3

CLIENT Doc. Number: F0Z-709271

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>NISOC</p>	<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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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 Company (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 FACP as listed in section 4. All equipment/devices/items shall conform to this requisition and all specifications which have been mentioned in attachment 1 of this material requisition.

3.0 REFERENCE / ATTACHED DOCUMENTS

- Specified documents in attachment 1 shall be considered as a part of this material Requisition.
- All codes and standards which have been referenced in above mentioned specs shall be considered.
- 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.
- Deviations

Any exceptions/clarifications to codes/standards and specifications listed in attachment 1 must be clearly stated in a separate dedicated section of the proposal in the format submitted in attachment 3.

The proposed deviations/comments list shall include as minimum:

- Reference for the involved specification, chapter and paragraph.
- Technical justification for the non-compliance.
- Detailed description of the proposed alternative.

If no exceptions or clarifications exist, either for the complete referenced document or an individual paragraph, the VENDOR shall be considered to be in full compliance with the relevant document.



The VENDOR may propose materials of equivalent or better quality compared to those indicated in the equipment data sheet. Even these cases shall be duly included/technically supported in the deviations/clarifications list.

4.0 SUBJECT OF THE SUPPLY

Vendor scope of works and services are design, modifying, inspection, testing & delivery of required F&G system and FACP equipment for connecting to building detectors. The vendor 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.

The vendor's supply shall include:



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No.	Item	Description	QTY. (Set)
1.	F&G SYS. and Marshalling cabinet	F&G System (including marshaling and system cabinets) for signals of GCS, SIL 3 PLC Based AS Per BK-GNRAL-PEDCO-000-IN-SP-0012 Doc No:” BK-GNRAL-PEDCO-000-IN-SP-0012” & I/O List For F&G Systems Doc No:” BK-GCS-PEDCO-120-IN-LI-0004”	1
2.	FACP	Fire Alarm Control Panel For GCS Area Buildings.	1
3.	F&G Matrix Panel	Fire & Gas Matrix Panel For GCS Area Buildings As Per Data Sheets For ESD Console/F&G Matrix Panel	1
4.	F&G Engineering/Operator Workstation	F&G Engineering/Operator Workstation with 32" LED/LCD Monitor & Required accessories including required HMI software and Software Licenses.	1
5.	Other required accessories	Accessories like cabinets, power supplies (if required), terminals, ducts, wires, relays and barriers, and other in GCS Area Buildings based on the project documents specially reference documents listed in the attachment 1.	1
6.	LAPTOP	F&G maintenance Laptop as per project Specification including required softwares and Software Licenses	
7.	Software license	All required software licenses shall be prepared as per attached document.	1

5.0 LIMITS OF SUPPLY

5.1 SCOPE OF SUPPLY



The VENDOR shall assume overall responsibility for the design, manufacture, assembly, test and performance of all equipment/devices/items supplied as indicated in this requisition. This shall include, but not be limited to:

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- Resolve engineering issues relating to equipment/devices/items within the scope of supply.
- Provide detailed design and documentation of all equipment/devices/items and components within the scope of supply in accordance with attachment 2 of this document.
- Provide all necessary information documents in order to allow the contractor to erect, install and verify the proposed equipment/devices/items.
- Implement a quality assurance plan
- The quality plan applied to the scope of supply shall include:
 - QA/QC Organization Chart and procedures that shall be submitted for approval.
 - Plan for HOLD points in the production process proposed to CLIENT/EPC CONTRACTOR for witness or approval particular activities.
 - Production schedule indicating main quality manufacturing processes, inspection and tests.
 - Qualification of all personnel performing tests to be reviewed by the inspector
 - Vendor shall also provide the description of the following quality activities:
 - o Sub vendors' products quality
 - o Quality check and identification of the materials and equipment entering in their manufacturing shop.
- Calibration of test instruments and equipment
- Provide detailed specifications and data sheets.
- The VENDOR shall take the full responsibility for the whole package control/protection system and shall be responsible for SAT and commissioning of the package.

5.1.1 SPARE PARTS

- The Vendor shall provide certain quantities of consumable for the installation, pre-commissioning, commissioning, Start-up and up to the end of the guarantee period.
- The quantities shall be estimated by Vendor and shall be based upon the Vendor's experience. The following two periods shall be taken into account:
 - Pre-commissioning and commissioning period where the consumption of consumable is greater
 - Normal use of the System
- The VENDOR shall provide lists of recommended spare parts, which shall include the original part numbers with prices for commissioning, start-up and two years operation. All spare parts shall be identified individually.
- Spare parts for commissioning and start-up; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&C-QC-SP-1).
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&C-QC-SP-1).

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- The VENDOR shall be able to provide spares back up and support for the plant life of at least 20 years.
- SPIR form shall be approved by CLIENT prior to procurement.

5.1.2 OTHER ITEMS

- Name plate

5.2 EXCLUSIONS

No exclusion is applicable.

5.3 BATTERY LIMITS

No battery limit is applicable.



6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the Inspection & Test plan (ITP) issued by the vendor and approved by the CLIENT or EPC/EPD (GC) CONTRACTOR before the award of the order. The Inspection & Test plan (ITP) shall be at least according to the Commodity Procurement and Manufacturing Inspection Instruction (Docs .Nos. ICE-EID-MI-SP01-Rev01) , Inspection Level of Commodity and Equipment (Docs .Nos. ICE-EID-MI-SP02-Rev01) and Data Sheets. The vendor shall in any case conduct all the tests required by contractual documents, specifications, codes and standards, manufacturer standard quality system and keep the relevant documentation. All required manufacturing and function test/inspection also Factory Acceptance Test /Site Acceptance Test and Quality Assurance requirements shall be considered in vendor responsibility as per project specification.

7.0 VENDOR DOCUMENTATION REQUIREMENTS & SCHEDULE

- Vendor document shall be according to attachment 2 of this document.
- All documents, preliminary or final, are to be stamped and signed by the VENDOR.
- Failure in dispatch of the required documents shall cause the supply to be considered as unfulfilled.
- EPC CONTRACTOR 's approval does not relieve vendor, in any way, from his obligation to fulfill the requirements of the purchase order documents.
- All vendor drawings and documents shall be in English language.

All drawings and documents are to be identified as per clause 1 **“GENERAL DEFINITION”**

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8.0 VENDOR RESPONSIBILITY

VENDOR shall be responsible for the design, engineering, co-ordination, supply, delivery, testing, final check-out and satisfactory operation of the equipment/devices/items. The engineering coordination also includes responsibility for handing and expediting drawings.

Also VENDOR shall be responsible for ensuring that all relevant information and documentation is passed on the sub-VENDORS.

9.0 GUARANTEE AND WARRANTY

All material and Equipment/Devices/Items in VENDOR's scope of work/supply shall be guaranteed by VENDOR.

The guarantee period shall be eighteen (18) months from the date of delivery or twelve (12) months from the installation date of each equipment/packages at site

VENDOR shall guarantee the performance of supplied items.

VENDOR shall guarantee that the Equipment/Device/Item is suitable for the operating conditions herein specified, and that all materials and components are free from any defects; verifications of all calculations are in VENDOR's responsibility.



VENDOR shall unconditionally guarantee the materials and workmanship of all material and/or services. If, within the guarantee period, any defects occur which are due to faulty material and/or services included in his scope (design, manufacturing, inspection, testing, supply & etc.), VENDOR shall, at his own expense, repair or adjust the condition, or replace the material and/or services to the complete satisfaction of CLIENT's representative. These repairs, replacement or adjustments shall be made only at such time as will be least detrimental to the operation of the CLIENT's business.

VENDOR warrants promptly repairing or replacing the defective parts in the warranty period.

Vendor shall ensure a correct and safe operation of the unit, providing all safety protection Devices.

Vendor shall be responsible for the safe, reliable, continuous functioning of the Equipment/Devices/Items.

VENDOR is fully responsible for the design of package for correct and safe operation based on project requirement during package life time; therefore, VENDOR shall specify any documents/specifications which may be required for design, manufacture and finalizing of Equipment/Devices/Items to avoid any problems during the package operation at site before P.O;

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otherwise, VENDOR shall be hold responsible for any corresponding deviation from expectations from the Equipment/Devices/Items.

10.0 DEVIATION



VENDOR's proposal shall be prepared in strict compliance with the requirements set forth in the relevant specifications of tender documents.

VENDOR shall include in his proposal the statement of compliance with the tender documents should VENDOR wish to submit exception to the requirements of tender documents. They shall be submitted for CLIENT's approval.

11.0 PRICE BREAKDOWN

Breakdown price of following items shall be included in the proposal, as well as total price.

- 1) Material and Fabrication for each Section Separately
- 2) Pre-commissioning & commissioning spare parts (E&C-QC-SP-1)
- 3) 2 years operational spare parts (E&C-QC-SP-1)
- 4) Packing & transportation



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ATTACHMENT 1

LIST OF REFERENCE / APPLICABLE DOCUMENTS

No.	Document No.	Document Title	Rev.
Instrument			
1.	BK-GNRAL-PEDCO-000-IN-SP-0012	Specification For Fire & Gas System	D03
2.	BK-GCS-PEDCO-120-IN-DC-0001	Fire & Gas Detection Design Criteria	D05
3.	BK-GCS-PEDCO-120-IN-DG-0009	F&G Cause and Effect Diagram For Process Area	D01
4.	BK-GCS-PEDCO-120-IN-DG-0010	F&G Cause and Effect Diagram For Building	D00
5.	BK-GCS-PEDCO-120-IN-DG-0008	Instrument & F&G Junction Box Termination Diagram	D02
6.	BK-GCS-PEDCO-120-IN-LI-0009	Instrument /F&G Cable List	D02
7.	BK-GCS-PEDCO-120-IN-LI-0004	I/O List For F&G Systems	D02
8.	BK-GCS-PEDCO-120-IN-LI-0005	Panels & Junction Box List	D02
9.	BK-GCS-PEDCO-120-IN-BD-0001	Control/ESD/F&G System Block Diagram Configuration	D06
10.	BK-GCS-PEDCO-120-IN-PY-0001	Control Room Layout & Arrangement Drawing	D03
11.	BK-GCS-PEDCO-120-IN-DT-0017	Data Sheets For ESD Console/F&G Matrix Panel	D01
12.	BK-GCS-PEDCO-120-IN-PY-0005	F&G Location Layout For Process Area	D02
13.	BK-GCS-PEDCO-120-IN-PY-0006	F&G Location Layout For Buildings	D01
Process			
14.	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis Of Design	D08
General			
15.	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی، خرید و ساخت کالا	D01
16.	ICE-EID-MI-SP02-Rev01	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	D01
17.	E&C-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دو سالانه	D00
18.	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
19.	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00



****NOTE: THE LATEST REVISION OF PROJECT DOCUMENT IN ATTACHMENT 1 TO BE CONSIDERED AS REFERENCE BY VENDOR.**

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ATTACHMENT 2

VENDOR DOCUMENTS MIN. REQUIREMENT



Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
MANAGEMENT						
001	Vendor Document Index and Schedule	4N	6C+E		6C+E	
002	Organization Brief	3N	6C+E			
003	Schedule Level 1, 2, 3 & 4 showing Engineering, Procurement, Fabrication, Inspection, Testing, and Delivery Plan.	4N	6C+E		6C+E	
004	Physically Progress Report (Every 2 Weeks)		6C+E			
005	Project Organization Chart	3N	6C+E			
006	Reference List	3N				
007	Vendor Catalogue	3N				
QUALITY						
008	Quality Assurance Manual /Quality Management System Certificate / Quality Control Plan (according to latest rev. of ISO)	4N	6C+E		6C+E	
009	Preliminary / Inspection and Test Plan	4N	6C+E			
010	Inspection and Test Plan	4N	6C+E		6C+E	
HSE						
011	HSE Procedure		6C+E		6C+E	
ENGINEERING						
012	VENDOR Document Schedule	3N	6C+E		6C+E	
013	Power Consumption List	3N	6C+E		6C+E	
014	Detailed Devices Catalogues	3N	6C+E		6C+E	
015	Equipment List And Cabinet Bill Of Material		6C+E		6C+E	

	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 - 073 - 9184	PMR FOR F&G SYSTEM								شماره صفحه : 13 از 17
	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک MR	سریال 0003	نسخه D00	

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
016	Control System Software Catalogue	3N	6C+E		6C+E	
017	Software System - Specifications		6C+E		6C+E	
018	Hardware System - Specifications		6C+E		6C+E	
019	Loop Diagrams		6C+E		6C+E	
020	I/O assignment		6C+E		6C+E	
021	Graphic Pages printout		6C+E		6C+E	
022	System Architecture and Network	3N	6C+E		6C+E	
023	Cable Termination's/Connection Diagrams		6C+E		6C+E	
024	Panel/ESD Console Layout		6C+E		6C+E	
025	Power Distribution Diagram		6C+E		6C+E	
026	System Software/logic printout		6C+E		6C+E	
027	Earthing Diagram		6C+E		6C+E	
028	Reliability/Availability/FEMA Report		6C+E		6C+E	
029	MODBUS Mapping List		6C+E		6C+E	
PROCUREMENT						
030	List of Sub-VENDORS (table giving: part of equipment, tag no., sub-VENDOR reference)	4N			6C+E	
031	Unpriced copy of sub-orders		6C+E			
032	Packing Spec. / Shipping Schedule	3N	6C+E		6C+E	
033	Weight List/ Shipping List	3N	6C+E		6C+E	
034	Mechanical & Performance Guarantees	3N	6C+E		6C+E	
TESTING						
035	Manufacturing, Test & Inspection Procedures	3N	6C+E		6C+E	

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شماره پیمان: 053 - 073 - 9184	PMR FOR F&G SYSTEM							شماره صفحه : 14 از 17	
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0003		D00

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
036	Performance & Functional Test Procedure		6C+E		6C+E	
037	Factory Acceptance Test (FAT) Procedure		6C+E		6C+E	
038	Site Acceptance Test (SAT) Procedure		6C+E		6C+E	
RECORDS, REPORTS & CERTIFICATES						
039	HAZARDOUS AREA CLASSIFICATION CERTIFICATES - Testifying to suitability of electrical/electronic apparatus for use in the Hazardous Area Specified.				6C+E	
040	INGRESS PROTECTION CERTIFICATES - Testifying to suitability of electrical/electronic apparatus for use in the Hazardous Area Specified.				6C+E	
041	CONFORMITY/COMPLIANCE CERTIFICATES Attesting conformance to type approval.				6C+E	
042	MANUFACTURING RECORD BOOK INDEX (Standard index will be issued with the Purchase Order).		6C+E		6C+E	
043	Pre-FAT Report				6C+E	
044	FAT Report				6C+E	
045	IP Certificate		6C+E		6C+E	
046	EX Certificate		6C+E		6C+E	
047	Conformity Certificates (sub-VENDOR/equipment)		6C+E		6C+E	
INSTALLATION						
048	Sub-Assembly Documentation		6C+E		6C+E	
049	Sub-Assembly Drawings		6C+E		6C+E	
050	Erection/Installation Manual		6C+E		6C+E	
051	Name Plate Documents		6C+E		6C+E	
052	Handling, Transportation & Storage		6C+E		6C+E	

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شماره پیمان: 053-073-9184	PMR FOR F&G SYSTEM							شماره صفحه : 15 از 17	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0003		D00

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
	Instructions					
053	Unpacking & Inspection Instructions		6C+E			
054	Preliminary Packing List	4N				
055	Packing List		6C+E		6C+E	
OPERATION & MAINTENANCE						
056	Operating Instructions		6C+E		6C+E	
057	Maintenance Instructions		6C+E		6C+E	
058	Commissioning & Start-up Manual		6C+E		6C+E	
059	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	
060	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	
061	List of Special Tools	4N	6C+E		6C+E	
062	Software Manual (incl. Troubleshooting)		6C+E		6C+E	
OTHERS						
063	Vendor Final Book				6C+E	1 week after delivery
064	All others documents (if required) will be listed in the order		6C+E			

NOTES: (1) N= Number of document, C=Copy, E=Electronic Copy

(2) Starting from date of order placement



(3) Starting from reception of documentation without comments

(4) First issue of the document is subjected to the release of payment milestone as per purchase order

(5) Calendar days after reception of drive data

(6) Prior to testing

(7) List of documents will be finalized in VDIS.

	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	PMR FOR F&G SYSTEM							شماره صفحه : 16 از 17	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0003	D00	

ATTACHMENT 3



DEVIATIONS / EXCEPTIONS TO JOB SPECIFICATION

Requisition No.:

Description:

Equipment No.:

Item No.	Description of proposed exception	Recommended revision to job specification	Reason for proposed exception	Effect on base proposal if CONTRACTOR rejects exception

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	PMR FOR F&G SYSTEM							شماره صفحه : 17 از 17	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0003	D00	

ATTACHMENT 4

ALTERNATIVES TO JOB SPECIFICATION

Requisition No.:

Description:

Equipment No.:

Item No.	Job Specification No. & Paragraph No.	Requirements of Job Specification	Description of Proposed Alternative	Reason for Proposed Alternative