


 <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>																	
<p>شماره پیمان: 053-073-9184</p>	<p>PMR FOR TOTAL FLOODING SYSTEM</p> <table border="1"> <tr> <td>نسخه</td> <td>سریال</td> <td>نوع مدرک</td> <td>رشته</td> <td>تسهیلات</td> <td>صادرکننده</td> <td>بسته کاری</td> <td>پروژه</td> </tr> <tr> <td>D01</td> <td>0001</td> <td>MR</td> <td>SA</td> <td>120</td> <td>PEDCO</td> <td>GCS</td> <td>BK</td> </tr> </table>	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D01	0001	MR	SA	120	PEDCO	GCS	BK	<p>شماره صفحه: 2 از 16</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.

2.0 GENERAL

- This document presents the item material requisitions for Contractor's use as appropriate.

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- This material requisition covers the requirements for the design, manufacturing, testing and supply of CO₂ Total Flooding System as listed below. All equipment /devices/items shall conform to this requisition and all specifications which have been mentioned in attachment 1 of this material requisition.
- The vendor's supply shall include:

No.	Item	Description	Total QTY.
1	CO2 Total Flooding System	CO2 Cylinders (4 Nos. Main + 4 Nos. Reserve) + Control panel + all of relevant accessories and nozzles	One skid*

**For more detail to be referred to MTO. No of nozzles should be calculated and cylinder quantities to be confirmed by vendor.*

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 the event of a conflict among the various documents, the order of precedence shall be as follow:



- Purchase Order (Including Attached Clarifications and Variations Thereon)
- Purchase Material Requisition (PMR)
- Data Sheets
- Drawings
- Specifications
- Other Project Documents
- Iranian Petroleum Standards (IPS)
- Other Local Codes and Standards
- International Codes and Standards

d. 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.

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

The supplier 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

The supplier shall supply CO₂ Total Flooding System. The scope of supply is detailed at para. 5. 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.

5.0 LIMITS OF SUPPLY

5.1 SCOPE OF SUPPLY



1.1.1 MAIN DESCRIPTION

This type of fire extinguishing system consists of high-pressure containing carbon dioxide (CO₂) agent under pressure, connected to fixed piping and nozzles. The systems are used for total flooding of a volume or for local application.

This Material Requisition, with the attachments, covers the requirements for the design, engineering material supply, prefabrication, shop assembly, shop test, shop inspection, packaging and delivery of CO₂ Total Flooding System for Binak compressor station.

The supplier 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:

- 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.

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- Implement a quality assurance plan
- The quality plan applied to the scope of supply shall include:
 - QA organization and procedures that shall be submitted for approval.
 - Plan for HOLD points in the production process proposed to PURCHASER 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
 - Supplier shall also provide the description of the following quality activities:
 - o Sub suppliers 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.

1.1.2 SPARE PARTS (NOT APPLICABLE)

Following items shall be considered (supplied) and included in the bid documentation:

- Spare parts for commissioning and start-up; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. END-QC-SP-1).
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. END-QC-SP-1).
- Capital spare parts (as option / if any)

1.1.3 OTHER ITEMS

- Fixing provisions and sunshade boxes shall be provided by vendor.



5.2 EXCLUSIONS

HVAC for CO2 room is required to control the inside temperature and humidity of CO2 room. This system will be fed by project HVAC system (without return duct) and will be provided by HVAC vendor.

5.3 BATTERY LIMITS

The battery limits includes Cylinders, control system, pilot cylinders, alarming devices, CO2 discharge nozzles and all related accessories, fixture devices as per relevant P&ID for CO2 total flooding system (BK-GCS-PEDCO-120-SA-PI-0002).

Moreover one CO2 detector should be supplied by vendor to be installed inside the cylinder room.

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Vendor shall supply all of specified devices in P&ID as per project specification ;(BK-GNRAL-PEDCO-000-SA-SP-0005)

6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the quality control plan issued by the supplier and approved by the PURCHASER before the award of the order. The QC plan shall at least be according to the PROJECT ITP PROCEDURE (Doc. No. E&D-QC-INSP-1) and data sheets (if any).

The supplier 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.



Where multiple hazards are protected from a common supply, a full discharge test shall be performed for each hazard.

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 supplier.
- Failure in dispatch of the required documents shall cause the supply to be considered as unfulfilled.
- PURCHASER'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"**

8.0 UNIT 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.

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

9.0 GUARANTEE, WARRANTY AND CUSTOMER SERVICES

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

The guarantee period shall be twenty four (24) months from the date of delivery or twelve (12) months from the date of installation, whichever occurs later. Anyway guarantee period shall not be less than twelve (12) months.

The after-sales and customer services period shall be minimum twenty (20) years from the date of delivery.

VENDOR shall guarantee the performance of supplied items (if any).

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 COMPANY's representative. These repairs, replacement or adjustments shall be made only at such time as will be least detrimental to the operation of the COMPANY'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; 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.



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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 PURCHASER'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 (END-QC-SP-1)
- 3) 2 years operational spare parts (END-QC-SP-1)
- 4) Packing & transportation
- 5) Other fee (if any)

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ATTACHMENT 1

11.1 LIST OF REFERENCE / APPLICABLE DOCUMENTS



No.	Document No.	Document Title	Rev.
Process			
1	Process Basis of Design	BK-GNRAL-PEDCO-000-PR-DB-0001	D02
Safety			
2	BK-GNRAL-PEDCO-000-SA-SP-0005	Specification For Total Flooding System	D02
3	BK-GCS-PEDCO-120-SA-PI-0002	P&ID - Total Flooding System For Extension of Existing Elect. Building	D01
4	BK-GCS-PEDCO-120-SA-CN-0001	Calculation Note For Total Flooding Demand For Extension of Existing Elect. Building	D01
5	BK-GNRAL-PEDCO-000-SA-SP-0008	Specification For Safety Signs	D03
General			
6	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی، خرید و ساخت کالا	
7	E&D-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دو سالانه	
Piping & Material			
8	BK-GNRAL-PEDCO-000-PI-SP-0006	Specification For Painting	D04
9	BK-GNRAL-PEDCO-000-PI-SP-0019	Specification For Insulation	D02
10	BK-GNRAL-PEDCO-000-PI-SP-0009	Specification For Manual valve	D00
11	BK-GNRAL-PEDCO-000-PI-SP-0011	Specification For Welding of Plant Piping System	D00
Instrumentation			
12	BK-GNRAL-PEDCO-000-IN-SP-0001	Specification For Instrumentation	D03
13	BK-GNRAL-PEDCO-000-IN-SP-0002	Specification For Control System	D03
14	BK-GNRAL-PEDCO-000-IN-SP-0004	Specification For Instrument and Control of Package Unit System (PU)	D00
15	BK-GNRAL-PEDCO-000-IN-SP-0005	Specification For Control Valves	D02
16	BK-GNRAL-PEDCO-000-IN-SP-0006	Specification For On-off /Shut Down Valves(ESDV/MOV)	D02
17	BK-GNRAL-PEDCO-000-IN-SP-0007	Specification For Pressure Safety Valves(PSV)	D03
18	BK-GNRAL-PEDCO-000-IN-SP-0010	Specification For Instrument/F&G Cables	D00
19	BK-GNRAL-PEDCO-000-IN-SP-0011	Specification For Control Panels and System Cabinets	D00

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ATTACHMENT 2

11.2 VENDOR DOCUMENTS MIN. REQUIREMENT

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
MANAGEMENT						
001	Vendor Document Index and Schedule (See attachment 2)	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 (according to latest rev. of ISO)	4N			6C+E	
009	Preliminary Inspection and Test Plan	4N				
010	Inspection and Test Plan		6C+E		6C+E	
INTERFACE						
011	Electrical & Instrumentation Cable Schedule (for all systems)		6C+E		6C+E	
012	Electrical & Instrumentation Wiring Drawings (for all systems)		6C+E		6C+E	
013	Package Data Sheets	4N	6C+E		6C+E	
014	Functional Description		6C+E		6C+E	
015	General Arrangements Drawings	4N	6C+E		6C+E	

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Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
			Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1) Calendar days (3)
016	Equipment List	3N	6C+E			6C+E
017	Control, Instrument & Cable List		6C+E			6C+E
018	Interface Block Diagrams	3N	6C+E			6C+E
019	Junction Box, Local Panels & Cabinets: wiring diagrams & termination drawings		6C+E			6C+E
020	Functional Logic Diagram		6C+E			6C+E
021	P & ID's	3N	6C+E			6C+E
022	Utility Consumption List	3N	6C+E			6C+E
023	Power Supply Requirements	3N	6C+E			6C+E
024	Single Line Diagram	3N	6C+E			6C+E
025	Earthing Details	3N	6C+E			6C+E
026	Weight / Centre of Gravity Drawings & Data's		6C+E			6C+E
ENGINEERING						
027	Detailed Functional Design Specification		6C+E			6C+E
028	Detailed Overall Description		6C+E			6C+E
029	Mechanical Detailed Specifications (one per component)		6C+E			6C+E
030	Detailed Design / Fabrication Drawings for Equipment & Auxiliary Parts		6C+E			6C+E
031	Cross Sectional Drawings with Part Lists		6C+E			6C+E
032	Assembly Drawings		6C+E			6C+E
033	CO2 demand Calculation Notes		6C+E			6C+E
034	Piping Routing		6C+E			6C+E
035	Valves & Instruments Location Drawings (incl. provisions for operational and maintenance access)		6C+E			6C+E
036	Instrument & Control Detailed Specifications (one per component)		6C+E			6C+E
037	Instrument cables routing (incl. cable trays & junction boxes)		6C+E			6C+E

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																									
شماره پیمان: 053 - 073 - 9184	<table><tr><th colspan="8">PMR FOR TOTAL FLOODING SYSTEM</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادرکننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>SA</td><td>MR</td><td>0001</td><td>D01</td></tr></table>	PMR FOR TOTAL FLOODING SYSTEM								پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	SA	MR	0001	D01	شماره صفحه : 15 از 16
PMR FOR TOTAL FLOODING SYSTEM																										
پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	SA	MR	0001	D01																			

ATTACHMENT 3



11.3 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</p> <p>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																									
شماره پیمان: 053 - 073 - 9184	<table><tr><th colspan="8">PMR FOR TOTAL FLOODING SYSTEM</th></tr><tr><th>نسخه</th><th>سریال</th><th>نوع مدرک</th><th>رشته</th><th>تسهیلات</th><th>صادرکننده</th><th>بسته کاری</th><th>پروژه</th></tr><tr><td>D01</td><td>0001</td><td>MR</td><td>SA</td><td>120</td><td>PEDCO</td><td>GCS</td><td>BK</td></tr></table>	PMR FOR TOTAL FLOODING SYSTEM								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D01	0001	MR	SA	120	PEDCO	GCS	BK	شماره صفحه : 16 از 16
PMR FOR TOTAL FLOODING SYSTEM																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D01	0001	MR	SA	120	PEDCO	GCS	BK																			

ATTACHMENT 4

11.4 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