
	<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

### PMR FOR PIPES

#### نگهداشت و افزایش تولید میدان نفتی بینک



D02	AUG. 2024	FI	M.Noori	M.Fakharian	M.Sadeghian	
D01	JUN. 2023	FI	M.Noori	M.Fakharian	A.M.Mohseni	
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Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class:3

CLIENT Doc. Number: F0Z-709243

#### 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 Company (NISOC)
PROJECT:	Binak Oilfield Development – Surface Facilities; New Gas Compressor Station
EPD/EPC CONTRACTOR (GC):	Petro Iran Development Company (PEDCO)
EPC CONTRACTOR/PURCHASER:	Joint Venture of : Hirgan Energy – Design & Inspection(D&I) Companies
VENDOR:	The firm or person who will fabricate/supply 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, or VENDOR.
MAY:	Is used where a provision is completely discretionary.



## 2.0 SCOPE

- This document presents the long lead 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 Pipes 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:

All items listed in MTO For Pipes Doc NO. "BK-GCS-PEDCO-120-PI-MT-0001"

### 3.0 NORMATIVE REFERENCES

- 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

The vendor shall supply all items listed in MTO For Pipes Doc NO."BK-GCS-PEDCO-120-PI-MT-0001".The scope of supply is detailed at para. 5. The vendor shall include in the supply, all other equipment/devices/items not listed in the following, but necessary for a good design and 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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## 5.0 LIMITS OF SUPPLY

### 5.1 SCOPE OF SUPPLY

#### 5.1.1 MAIN DESCRIPTION

The scope of supply includes items listed in MTO For Pipes Doc NO." BK-GCS-PEDCO-120-PI-MT-0001"




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:

- 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 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
  - 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

#### 5.1.2 SPARE PARTS

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 (If Applicable)
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (If Applicable)
- Capital spare parts (as option / if any)

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### 5.1.3 OTHER ITEMS

- No protection, paint or filling shall be applied to the subject materials, before they have been inspected and successfully tested, and approved by purchaser's inspector. After approval and before dispatching, each part of the subject materials shall be thoroughly cleaned and appropriately protected and packed in accordance with the requirements of purchaser / shipper /carriers, and suitably for prolonged storage.
- Any technical information and data (specifications, drawings, etc.), furnished with the requisition, shall be returned to purchaser, after the successful bidder is announced.
- Packing materials cases shall be included in the proposed price, and are property of purchaser.
- In the event of any conflict of information, clarification in writing shall be obtained from the purchaser.
- Each piece or items of piping material shall be covered by DIN standard no. BS EN 10204 / ISO 10474, Type 3.1 certificate (or certificates).
- All straight length of pipe shall be supplied as follows:  
2" and larger in Double Random Length with Bevelled Ends according to ASME B16.25
- Quotations shall clearly specify the length offered for each item description (Single Random or Double Random).
- All Materials specified with NACE shall meet the requirements of Sour Services. Sour services' materials shall meet the requirement of NACE MR0175/ISO 15156 and the Project "Specification For Material Requirements in Sour service (Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0008\_D02)" and "Specification For Metallic Pipes (Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0004)".

### 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 CONTRACTOR (GC). 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

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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. Vendor shall submit MPS, QCP and ITP prior to Pre-Inspection Meeting (PIM).

## 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.
- 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 follows:

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## 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.



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 twenty four (24) months from the date of delivery or twelve (12) months from the date of mechanical completion, whichever occurs later.



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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 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; 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 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 (If Applicable)
- 3) 2 years operational spare parts (If Applicable)
- 4) Packing & transportation
- 5) Other fee (if any)



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### ATTACHMENT 1

### LIST OF REFERENCE / APPLICABLE DOCUMENTS



No.	Document No.	Document Title	Rev.
Piping			
1	BK-GCS-PEDCO-120-PI-MT-0001	MTO For Pipes	D03
2	BK-GNRAL-PEDCO-000-PI-SP-0004	Specification For Metallic Pipes	D06
3	BK-GNRAL-PEDCO-000-PI-SP-0006	Specification For Painting	D04
4	BK-GNRAL-PEDCO-000-PI-SP-0011	Specification for Welding of Plant Piping System	D02
5	BK-GNRAL-PEDCO-000-PI-SP-0001	Specification For Color Coding and Marking	D02
6	BK-GNRAL-PEDCO-000-PI-SP-0008	Specification For Material Requirements in Sour service	D02
7	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
8	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00
9	ICE-EID-MI-SP01	دستورالعمل بازرسی خرید و ساخت کالا	Rev.01
10	ICE-EID-MI-SP02	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	Rev.01

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## ATTACHMENT 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	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				
HSE						
008	HSE PROCEDURE		6C+E		6C+E	
ENGINEERING						
009	ITEM LIST INCLUDING CODE, MATERIAL, DESCRIPTION, SIZE, QTY, ETC.	4N	6C+E		6C+E	
PROCUREMENT						
010	LIST OF SUB-VENDORS ( TABLE GIVING: PART OF EQUIPMENT, TAG NO., SUB-VENDOR	4N			6C+E	





شماره صفحه : 12 از 17

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D02	0001	MB	PI	120	PEDCO	GCS	BK

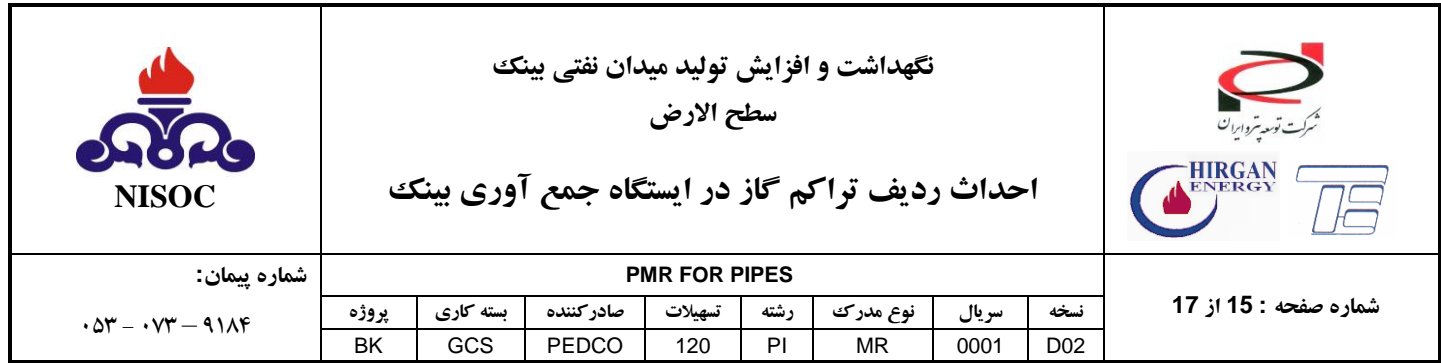
ITEM NO.	DOCUMENT	WITH BID	TIME SCHEDULE			
			FOR REVIEW		FINAL ISSUE	
		COPIES NO./TYPE (7)	COPIES NO./TYPE (1)	SOLAR DAYS (2)	COPIES NO./TYPE (1)	CALENDAR DAYS (3)
	REFERENCE)(5.1.3)					
011	UN-PRICED COPY OF FINAL TECHNICAL MAIN ORDER AND SUB ORDERS		6C+E			
012	PRELIMINARY PACKING LIST	4N				
013	PACKING LIST		6C+E		6C+E	
QA/QC						
014	QUALITY ASSURANCE MANUAL /QUALITY MANAGEMENT SYSTEM CERTIFICATE (ACCORDING TO LATEST REV. OF ISO)	4N			6C+E	008
015	PRELIMINARY INSPECTION AND TEST PLAN	4N				009
016	INSPECTION AND TEST PLAN		6C+E		6C+E	010
017	WELD AND NDT MAP		6C+E		6C+E	
018	SURFACE PREPARATION AND COATING PROCEDURES		6C+E		6C+E	
019	HEAT TREATMENT PROCEDURES		6C+E		6C+E	
020	WELDING PROCEDURE SPECIFICATION (INCLUDING REPAIR PROCEDURES).		6C+E		6C+E	
021	HYDROSTATIC / PNEUMATIC TESTING PROCEDURE		6C+E		6C+E	
022	NON-DESTRUCTIVE TESTING/EXAMINATION PROCEDURES		6C+E		6C+E	
RECORDS, REPORTS & CERTIFICATES						

 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:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES								شماره صفحه : 13 از 17
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	PEDCO	120	PI	MR	0001	D02	



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)
023	MATERIAL CONFORMITY CERTIFICATE		6C+E		6C+E	
024	CONFORMITY CERTIFICATES (SUB-VENDOR/EQUIPMENT)		6C+E		6C+E	
025	MATERIAL CERTIFICATES IDENTIFICATION DIAGRAM. (CROSS-REFERENCE MATERIAL LOCATION ; CERTIFICATES FOR CRITICAL COMPONENTS)		6C+E		6C+E	
026	WELDING PROCEDURE QUALIFICATION RECORD		6C+E		6C+E	
027	NDT OPERATOR QUALIFICATIONS		6C+E		6C+E	
028	DETAILED NDT REPORTS		6C+E		6C+E	
029	WELD/ NDT IDENTIFICATION DIAGRAM. (CROSS-REFERENCE WELD LOCATIONS, WPS, WELDERS, NDT REPORTS).		6C+E		6C+E	
030	DIMENSIONAL CONTROL REPORTS		6C+E		6C+E	
031	HARDNESS TEST REPORTS		6C+E		6C+E	
032	HEAT TREATMENT CERTIFICATE		6C+E		6C+E	
033	PWHT CHARTS & REPORTS, INCLUDING CALIBRATION RECORDS OF RECORDERS (FOR EACH HEAT TREATMENT)		6C+E		6C+E	
034	CORROSION RESISTANCE TEST CERTIFICATE (HIC, SSC, ETC.) IF APPLICABLE		6C+E		6C+E	
035	PICKLING AND PASSIVATION CERTIFICATE		6C+E		6C+E	
036	PRESSURE TEST REPORTS / CERTIFICATES		6C+E		6C+E	

	<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:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 14 از 17	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001		D02

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)
037	SURFACE PREPARATION & COATING REPORTS		6C+E		6C+E	
038	INSPECTION AND TEST REPORTS(IF ANY)		6C+E		6C+E	
039	RUST PREVENTION PROCEDURE / REPORT		6C+E		6C+E	
040	NON-CONFORMITIES REPORT		6C+E		6C+E	
041	FINAL VENDOR QC & DATA BOOKS		6C+E		6C+E	
TRANSPORTATION AND INSTALLATION						
042	SHIPPING VOLUME INFORMATION	4N				
043	SHIPPING LIST				6C+E	
044	UNPACKING & INSPECTION INSTRUCTIONS		6C+E			
045	LIFTING, LOADING, UNLOADING & TRANSPORTATION PROCEDURES		6C+E		6C+E	
046	PRESERVATION & LONG TERM STORAGE PROCEDURES		6C+E		6C+E	
047	ERECTION/INSTALLATION MANUAL (IF REQUIRED)		6C+E		6C+E	
OPERATION & MAINTENANCE						
048	LIST OF SPARE PARTS COMMISSIONING & START-UP	4N	6C+E		6C+E	
049	LIST OF SPARE PARTS 2 YEARS OPERATION	4N	6C+E		6C+E	



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)
OTHERS						
050	ALL OTHERS DOCUMENTS (IF REQUIRED) WILL BE LISTED IN THE ORDER		6C+E			
<p>NOTES:</p> <p>(1) N= NUMBER OF DOCUMENT, C=COPY, E=ELECTRONIC COPY</p> <p>(2) STARTING FROM DATE OF ORDER PLACEMENT</p> <p>(3) STARTING FROM RECEPTION OF DOCUMENTATION WITHOUT COMMENTS</p> <p>(4) FIRST ISSUE OF THE DOCUMENT IS SUBJECTED TO THE RELEASE OF PAYMENT MILESTONE AS PER PURCHASE ORDER</p> <p>(5) CALENDAR DAYS AFTER RECEPTION OF DRIVE DATA</p> <p>(6) PRIOR TO TESTING</p> <p>(7) ONE COPY EACH BID COPY</p> <p>GENERAL NOTE:</p> <p>LIST OF DOCUMENTS WILL BE FINALIZED IN VDLS.</p>						

 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:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 16 از 17	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001	D02	

### 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>							 شرکت توسعه ترابریان 	
شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 17 از 17	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001	D02	

#### 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