
	<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



D01	JUN. 2023	FI	M.Noori	M.Fakharian	A.M.Mohseni	
D00	NOV. 2022	IFI	M.Noori	M.Fakharian	M.Mehrshad	
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#### 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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## 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 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 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 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 supplier 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 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.
- 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
  - Supplier shall also provide the description of the following quality activities:
    - Sub suppliers products quality
    - 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 Applied)
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (If Applied)
- 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 3.2 certificate (or certificates). The vendor shall submit type 3.2 material certificates giving the results of the chemical analysis and of the mechanical tests carried out in accordance with the requirements of the API 5L-Ed.46.and IPS-M-PI-190 (3).
- 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
- Individual length shall be furnished in accordance with requirements of Table 12 API 5L-Ed.46.
- Engineering Standard of "IPS-M-PI-190" shall be referred to latest Rev which is (3)
- Quotations shall clearly specify the length offered for each item description (Single Random or Double Random).
- Carbon steel materials shall be impact tested and heat treated according to project specifications BK-GNRAL-PEDCO-000-PI-SP-0004.
- All Materials specified with NACE shall meet the requirements of Sour Services. Sour services' materials shall meet the requirement of NACE MR0175/ISO 15156, API 5L-Ed.46.and IPS-M-PI-190 (3) standards. All materials under sour conditions shall be tested and resistant to HIC and SSCC according to circumstances of "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

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## 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 "Instruction Commodity Procurement and Manufacturing Inspection Doc No. ICE-EID-MI-SP01-Rev.01" and "Instruction for Selecting the Level of Inspection of Goods and Equipment Doc No. ICE-EID-MI-SP02-Rev.01" and Project Specifications (if any).

Continuous inspection of manufacturing, at the manufacturer's plant (Level 1), together with the superior supervision and approval of CLIENT's technical inspection, shall be done by TPI.

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.



## 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 follows:

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PROJECT:	Binak Oilfield Development – Surface Facilities; New Gas Compressor Station
EPD/EPC CONTRACTOR (GC):	Petro Iran Development Company (PEDCO)
EPC CONTRACTOR:	Joint Venture of : Hiran Energy – Design & Inspection(D&I) Companies

## 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 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.

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.

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## 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 Applied)
- 3) 2 years operational spare parts (If Applied)
- 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	D01
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-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
7	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00
8	ICE-EID-MI-SP01	دستورالعمل بازرسی خرید و ساخت کالا	Rev.01
9	ICE-EID-MI-SP02	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	Rev.01



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## ATTACHMENT 2



### VENDOR DOCUMENTS MIN. REQUIREMENT

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شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 13 از 19
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	BK	GCS	PEDCO	120	PI	MR	0001	
							D01	



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-SUPPLIERS ( TABLE GIVING: PART OF EQUIPMENT, TAG NO., SUB- SUPPLIER REFERENCE)(5.1.3)	4N			6C+E	
011	UN-PRICED COPY OF FINAL TECHNICAL MAIN ORDER AND SUB ORDERS		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:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 14 از 19
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	GCS	PEDCO	120	PI	MR	0001	
							D01	

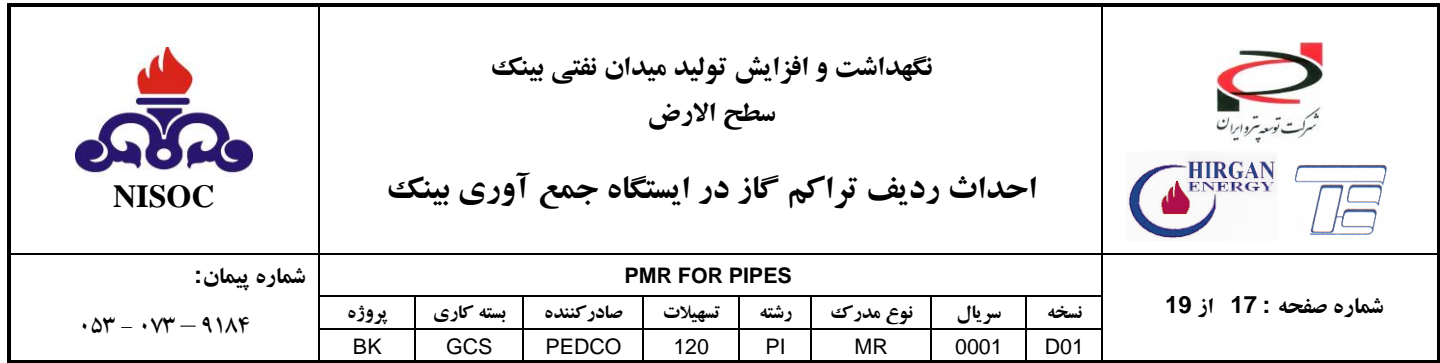
ITEM NO.	DOCUMENT	WITH BID	TIME SCHEDULE			
			FOR REVIEW		FINAL ISSUE	
		COPIES NO./TYPE (7)	COPIES NO./TYPE (1)	SOLAR DAYS (2)	COPIES NO./TYPE (1)	CALENDAR DAYS (3)
012	PRELIMINARY PACKING LIST	4N				
013	PACKING LIST		6C+E		6C+E	
QA/QC						
014	QUALITY ASSURANCE MANUAL /QUALITY MANAGEMENT SYSTEM 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						
023	MATERIAL CONFORMITY CERTIFICATE		6C+E		6C+E	
024	CONFORMITY CERTIFICATES (SUB-SUPPLIER/EQUIPMENT)		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:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 15 از 19	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001	D01	



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)
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	
037	SURFACE PREPARATION & COATING REPORTS		6C+E		6C+E	
038	INSPECTION AND TEST REPORTS(IF ANY)		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:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR PIPES							شماره صفحه : 16 از 19	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001	D01	

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)
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	
OTHERS						
050	ALL OTHERS DOCUMENTS (IF REQUIRED) WILL BE LISTED IN THE ORDER		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)
<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>						

	<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 : 18 از 19	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001	D01	

### 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

	<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 : 19 از 19	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PI	MR	0001	D01	

#### 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