
 NISOC	<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 ROTAMETER نگهداشت و افزایش تولید میدان نفتی بینک



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Class: 3

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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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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/PURCHSER:	Joint Venture of : Hirgan Energy – Design & Inspection (D&I) Companies
VENDOR:	The firm or person who will fabricate or supply the equipment/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 VENDO R.
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.
- This material requisition covers the requirements for the design, manufacturing, testing and supply rotameter as listed in section 5.

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- 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, Vendor shall be considered to be in full compliance with the relevant document.

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 shall supply rotameter. The scope of supply is detailed at part. 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 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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5.0 LIMITS OF SUPPLY

5.1 SCOPE OF SUPPLY



5.1.1 MAIN DESCRIPTION

The scope of supply includes 17 Nos. Rotameter. Main feature are as below:

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No.	Item	Description	Total QTY.
1	FG-2101	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
2	FG-2102	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
3	FG-2111	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
4	FG-2112	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
5	FG-2141	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
6	FG-2151	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
7	FG-2271	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
8	FG-2132A	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
9	FG-2132B	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
10	FG-2132C	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
11	FG-2134A	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
12	FG-2134B	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
13	FG-2134C	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
14	FG-2142	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
15	FG-2152	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
16	FG-2272	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1
17	FG-3201	Rotameter, Metal Tube, As per Data Sheets For Rotameter Doc. No.: BK-GCS-PEDCO-120-IN-DT-0018	1

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 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 vendor 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

- 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).
- 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.

5.1.3 OTHER ITEMS

No Other Items.

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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 approved Inspection & Test plan/ITP. ITP shall be issued by VENDOR before the award of the order, also VENDOR shall submit QCP(Quality Control Plan) & MPS(Manufacturing Process Specification) after Purchase 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 Project Specifications/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.
- 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.

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

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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; 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 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



D01

No.	Document No.	Document Title	Rev.
Instrument			
1.	BK-GNRAL-PEDCO-000-IN-SP-0010	General Specification for Instrumentation	D04
2.	BK-GCS-PEDCO-120-IN-DT-0018	Data Sheets For Rotameter	D02
3.	BK-SSGRL-PEDCO-110-IN-DC-0002	Instrument & Control System Design Criteria	D02
Piping			
1.	Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001	D02
Process			
1.	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis Of Design	D08
2.	BK-GCS-PEDCO-120-PR-PI-0002	P&ID - Gas Compression Inlet Gas Pipeline (Binak)	D07
3.	BK-GCS-PEDCO-120-PR-PI-0003	P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)	D07
4.	BK-GCS-PEDCO-120-PR-PI-0005	P&ID - Gas Compression Inlet Knock Out Drum	D07
5.	BK-GCS-PEDCO-120-PR-PI-0011	P&ID - 2nd Stage Gas Compression Air Coolers	D07
6.	BK-GCS-PEDCO-120-PR-PI-0012	P&ID - 2nd Stage Gas Compression Discharge Drum	D07
7.	BK-GCS-PEDCO-120-PR-PI-0013	P&ID - Gas Compression Dehydration Package	D07
8.	BK-GCS-PEDCO-120-PR-PI-0022	P&ID - Fuel Gas System	D07
9.	BK-PPL-PEDCO-320-PR-PI-0001	P&ID - Gas Pipeline (to Siahmakan G.I. Station)	D04
General			
1.	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی، خرید و ساخت کالا	D01
2.	ICE-EID-MI-SP02-Rev01	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	D01
3.	E&C-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دو	D00

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No.	Document No.	Document Title	Rev.
		سالانه	
4.	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
5.	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.**

	<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 ROTAMETER							شماره صفحه : 13 از 18	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0019		D01

ATTACHMENT 2

11.1 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						
01	Vendor Document Index and Schedule	4N	6C+E		6C+E	
02	Organization Brief	3N	6C+E			
03	Schedule Level 1, 2, 3 & 4 showing Engineering, Procurement, Fabrication, Inspection, Testing, and Delivery Plan.	4N	6C+E		6C+E	
04	Physically Progress Report (Every 2 Weeks))		6C+E			
05	Project Organization Chart	3N	6C+E			
06	Reference List	3N				
07	Vendor Catalogue	3N	6C+E			
QUALITY						
08	Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)	4N	6C+E		6C+E	
09	Preliminary Inspection and Test Plan	4N				
10	Inspection and Test Plan		6C+E		6C+E	
HSE						
11	HSE Procedure		6C+E		6C+E	
ENGINEERING						
12	Specifications/Data Sheets (Completed)	3N	6C+E		6C+E	
13	Dimensional Outlines	3N	6C+E		6C+E	
14	Mounting Details		6C+E		6C+E	
15	General Arrangement	3N	6C+E		6C+E	
16	Detailed Dimensions of Cut- Outs		6C+E		6C+E	

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شماره پیمان: 053 – 073 – 9184	PMR FOR ROTAMETER							شماره صفحه : 14 از 18	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0019		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)
17	Termination details		6C+E		6C+E	
18	Parts/Material List	3N	6C+E		6C+E	
19	Technical Description and Relevant Catalogues	3N	6C+E		6C+E	
20	List of Deviations from the Specification and Data Sheets	3N	6C+E		6C+E	
PROCUREMENT						
21	List of Sub-Vendors (table giving: part of equipment, tag no., sub-vendor reference)(5.1.3)	4N			6C+E	
22	Unpriced copy of sub-orders		6C+E			
23	Packing Spec. / Shipping Schedule	3N	6C+E		6C+E	
24	Weight List/ Shipping List	3N	6C+E		6C+E	
25	Mechanical & Performance Guarantees	3N	6C+E		6C+E	
TESTING						
26	Manufacturing, Test & Inspection Procedures	3N	6C+E		6C+E	
27	Performance & Functional Test Procedure		6C+E		6C+E	
28	Factory Acceptance Test (FAT) Procedure		6C+E		6C+E	
RECORDS, REPORTS & CERTIFICATES						
29	Material Conformity Certificate		6C+E		6C+E	
30	Testing Authority Approval Certificate (if any)		6C+E		6C+E	
31	Hazardous Area Certificates.		6C+E		6C+E	
32	Ingress Protection Certificate		6C+E		6C+E	
33	Conformity Certificates (sub-vendor/equipment)		6C+E		6C+E	
33	Material Certificates Identification Diagram. (cross-reference material location ; certificates for critical		6C+E		6C+E	





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شماره صفحه : 15 از 18

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D01	0019	MB	IN	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)
	components)					
34	Dimensional Control Reports		6C+E		6C+E	
35	Hardness Test Reports		6C+E		6C+E	
36	FAT Test Report / Certificates		6C+E		6C+E	
37	Performance Test Report / Certificates		6C+E		6C+E	
38	Calibration Curves of Control Equipment		6C+E		6C+E	
39	Calibration Test Certificates		6C+E		6C+E	
40	Test & Inspection Reports		6C+E		6C+E	
41	Non-Conformities Report		6C+E		6C+E	
INSTALLATION						
42	Sub-Assembly Documentation		6C+E		6C+E	
43	Sub-Assembly Drawings		6C+E		6C+E	
44	Erection/Installation Manual		6C+E		6C+E	
45	Name Plate Documents		6C+E		6C+E	
46	Handling, Transportation & Storage Instructions		6C+E		6C+E	
47	Unpacking & Inspection Instructions		6C+E			
48	Preliminary Packing List	4N				
49	Packing List		6C+E		6C+E	
OPERATION & MAINTENANCE						
50	Operating Instructions		6C+E		6C+E	
51	Maintenance Instructions		6C+E		6C+E	
52	Commissioning & Start-up Manual		6C+E		6C+E	
53	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	
54	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	
55	List of Special Tools	4N	6C+E		6C+E	
56	Function Test Procedure		6C+E		6C+E	
OTHERS						

	<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 ROTAMETER							شماره صفحه : 16 از 18	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0019		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)
57	Vendor Final Book				6C+E	1 Week After Delivery
58	All others documents 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) One copy each bid copy
- (8) List of documents will be finalized in Vendor Document index and Schedule (VDIS).

 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 ROTAMETER							شماره صفحه : 17 از 18	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0019	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: 053 – 073 – 9184	PMR FOR ROTAMETER							شماره صفحه : 18 از 18	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0019	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