

	<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 DEVICES

نگهداشت و افزایش تولید میدان نفتی بینک

D02	NOV. 2024	FI	P.Hajisadeghi	M.Fakharian	M.Sadeghian	
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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

 <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/PURCHSER:	Joint Venture of: Hirgan Energy – Design & Inspection (D&I) Companies
VENDOR:	The firm or person who will fabricate or supply the equipment or material.
SUB VENDOR:	The firm or person who will have a direct contract with the Vendor or another Sub vendor to perform a part or parts of the Work
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.

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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 F&G Detector as listed in section 5. 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.

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.



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 F&G Detector as listed in section 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 F&G Detectors as per listed above. Main features are as below:

- Beacon
- Bell
- Flame Detector
- Flammable Gas Detector
- Heat Detector
- Horn
- Hydrogen Gas Detector
- Linear Heat Detector
- Manual Call Point
- Smoke Detector
- Toxic Gas Detector
- All required Calibration Devices & Test Kits
- Painting and coating

Detail of supply is listed below:


No.	Item	Description	Total QTY.
1	BR/BY (As per listed in Data sheet)	Beacon As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
2	BL (As per listed in Data sheet)	Bell As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
3	FD (As per listed in Data sheet)	Flame Detector As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
4	FGD (As per listed in Data sheet)	Flammable Gas Detector As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
5	HD (As per listed in Data sheet)	Heat Detector As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
6	HN (As per listed in Data sheet)	Horn As per Data Sheets For F&G Devices (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)

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7	HGD (As per listed in Data sheet)	Hydrogen Gas Detector As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
8	LHD (As per listed in Data sheet)	Linear Heat Detector As per Data Sheets For Detectors & Equipment Devices (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
9	MAC (As per listed in Data sheet)	Manual Call Point As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
10	SD (As per listed in Data sheet)	Smoke Detector As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)
11	TGD (As per listed in Data sheet)	Toxic Gas Detector As per Data Sheets For F&G Detectors & Equipment (BK-GCS-PEDCO-120-IN-DT-0016)	(As per listed in Data sheet)

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 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.

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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 (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).
- Capital spare parts (as option)

5.1.3 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 and 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.

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- 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"**

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 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.

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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 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

D02

No.	Document No.	Document Title	Rev.
Instrument			
1.	BK-GNRAL-PEDCO-000-IN-SP-0009	Specification For Fire & Gas Sensor and Devices	D04
2.	BK-GCS-PEDCO-120-IN-DC-0001	Fire & Gas Detection Design Criteria	D06
3.	BK-GCS-PEDCO-120-IN-PY-0005	F&G Location Layout For Process Area	D04
4.	BK-GCS-PEDCO-120-IN-PY-0006	F&G Location Layout For Buildings	D03
5.	BK-GCS-PEDCO-120-IN-DT-0016	Data Sheets For F&G Detectors & Equipment	D04
6.	BK-GCS-PEDCO-120-IN-LI-0008	F&G Detector List	D04
Process			
7.	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis Of Design	D08
General			
8.	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی، خرید و ساخت کالا	D01
9.	ICE-EID-MI-SP02-Rev01	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	D01
10.	E&C-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دو سالانه	D00
11.	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
12.	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



NO.	DESCRIPTION	WITH BID	AFTER ORDERING				AT THE FINAL INSPECTION (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
MANAGEMENT							
1	Vendor Document Index and Schedule	4N	6C+E	2W	A	6C+E	X
2	Organization Brief	4N	6C+E	2W	I	6C+E	
3	Schedule Level 1, 2, 3 & 4 showing Engineering, Procurement, Fabrication, Inspection, Testing, and Delivery Plan./MPS(Master production schedule)	4N	6C+E	3W	A	6C+E	X
4	Physically Progress Report (Every 2 Weeks))		6C+E	2W			
5	Project Organization Chart	4N	6C+E	2W			X
6	Reference List	4N	6C+E	2W	I	6C+E	
7	Vendor Catalogue	4N	6C+E	2W	I	6C+E	X
QUALITY							
8	Quality Assurance Manual /Quality Management System Certificate / Quality Control Plan (according to latest rev. of ISO)	4N	6C+E		A	6C+E	
9	Preliminary Inspection and Test Plan	4N	6C+E				
10	Inspection and Test Plan	4N	6C+E	3W	A	6C+E	
HSE							
11	HSE Procedure		6C+E	4W	A	6C+E	X
ENGINEERING							
12	Dimensional Outlines	4N	6C+E	4W	A	6C+E	X
13	Mounting Details		6C+E	4W	A	6C+E	X
14	General Arrangement	4N	6C+E	4W	A	6C+E	X

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>							 شماره صفحه: ۱۳ از ۱۷
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR F&G DEVICES							
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	MR	0007	D02

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				AT THE FINAL INSPECTION (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
15	Installation Diagram		6C+E	4W	A	6C+E	X
16	Parts/Material List	4N	6C+E	4W	A	6C+E	X
17	Technical Description and Relevant Catalogues	4N	6C+E	4W	A	6C+E	X
18	List of Deviations from the Specification and Data Sheets	4N	6C+E	4W	A	6C+E	
19	Final Data Book				A	6C+E	X
PROCUREMENT							
20	List of Sub-Vendors (table giving: part of equipment, tag no., sub-vendor reference)	4N	6C+E	4W	A	6C+E	
21	Unpriced copy of sub-orders	4N	6C+E	4W	I	-	
22	Packing Spec. / Shipping Schedule	4N	6C+E	4W	I	-	
23	Weight List/ Shipping List	4N	6C+E	4W	I	6C+E	
24	Mechanical & Performance Guarantees	4N	6C+E	4W	I	-	
MANUFACTURING							
25	Preliminary Project Schedule		6C+E	4W	I	-	
26	Surface Preparation and Painting Procedures		6C+E	4W	I	6C+E	X
27	Fabrication Degree		6C+E	4W	I	6C+E	X
TESTING							
28	Manufacturing, Test & Inspection Procedures	4N	6C+E	4W	A	6C+E	X
29	Performance & Functional Test Procedure		6C+E	4W	A	6C+E	X
30	Factory Acceptance Test (FAT) Procedure		6C+E	4W	A	6C+E	X
RECORDS, REPORTS & CERTIFICATES							
31	Material Conformity Certificate		6C+E	4W	I	6C+E	X
32	Testing Authority Approval Certificate		6C+E	4W	I	6C+E	X
33	Hazardous Area Certificates.		6C+E	4W	I	6C+E	X
34	Conformity Certificates (sub-		6C+E	4W	I	6C+E	X

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR F&G DEVICES							شماره صفحه : ۱۴ از ۱۷	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0007	D02	

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				AT THE FINAL INSPECTION (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
	vendor/equipment)						
35	Material Certificates Identification Diagram. (cross-reference material location ; certificates for critical components)		6C+E	4W	I	6C+E	X
36	FAT Test Report / Certificates		6C+E	4W	A	6C+E	
37	Performance Test Report / Certificates		6C+E	4W	A	6C+E	X
38	Material Test Certificates		6C+E	4W	I	6C+E	X
39	Surface Preparation & Coating Reports		6C+E	4W	A	6C+E	
40	Test & Inspection Reports		6C+E	4W	A	6C+E	
41	Rust Prevention Report		6C+E	4W	A	6C+E	
42	IP Certificate		6C+E	4W	A	6C+E	
43	EX Certificate		6C+E	4W	A	6C+E	
44	Letter of Conformity		6C+E	4W	A	6C+E	
INSTALLATION							
45	Sub-Assembly Documentation		6C+E	4W	A	6C+E	
46	Sub-Assembly Drawings		6C+E	4W	A	6C+E	
47	Erection/Installation Manual (if required)		6C+E	4W	A	6C+E	
48	Handling, Transportation & Storage Instructions	4N	6C+E	4W	A	6C+E	
49	Unpacking & Inspection Instructions		6C+E	4W	A	6C+E	
50	Preliminary Packing List		6C+E	4W	A	6C+E	
51	Packing List		6C+E	4W	A	6C+E	
OPERATION & MAINTENANCE							
52	Operating Instructions		6C+E	4W	A	6C+E	
53	Maintenance Instructions		6C+E	4W	A	6C+E	
54	Commissioning & Start-up Manual		6C+E	4W	A	6C+E	
55	List of Spare Parts Commissioning & Start-up	4N	6C+E	4W	A	6C+E	
56	List of Spare Parts 2 Years Operation	4N	6C+E	4W	A	6C+E	

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شماره پیمان:	PMR FOR F&G DEVICES							شماره صفحه: ۱۵ از ۱۷	
۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	IN	MR	0007	D02	

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				AT THE FINAL INSPECTION (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
57	List of Special Tools	4N	6C+E	4W	A	6C+E	
58	Consumables List		6C+E	4W	A	6C+E	
OTHERS							
59	Vendor Final Book		6C+E	4W	A	6C+E	X
60	All others documents (if required) will be listed in the order						

NOTES :

*** The electronic file (Native/PDF) and Hardcopy version shall be provided in all stages by vendor.

(1) Q : QUANTITY ; TYPE : C = COPY, R = REPRODUCIBLE, P = POLYESTER, M = MICROFILM, E = ELECTRONIC, N=NUMBER OF DOCUMENT

(2) W = CONSECUTIVE CALENDAR WEEK, M = CONSECUTIVE CALENDAR MONTH

(3) A = FOR APPROVAL - I = FOR INFORMATION

(4) X = DOCUMENTS TO BE SUBMITTED AT THE FINAL INSPECTION

(5) MECHANICAL CATALOGUE INCLUDING FINAL DRAWINGS/DOCUMENTS, UNPRICED PURCHASE ORDER & SUB-

PURCHASE ORDER, MAINTENANCE DOSSIER ETC.

(6) ALL DOCUMENTS AND/OR DRAWINGS FOR THIS PROJECT SHALL ALSO BE SUBMITTED IN THE ELECTRONIC FILES BY

USING THE FOLLOWING SOFTWARE.

MS OFFICE WORD 2013 OR UPPER VERSION (ENGLISH) FOR WORD PROCESSING


MS OFFICE EXCEL 2013 OR UPPER VERSION (ENGLISH) FOR SPREAD SHEET

AUTO CAD 2005 (ENGLISH) FOR DRAWING

(7) IN ORDER TO DESIGN AND MANUFACTURE THE INSTRUMENTS, VENDOR SHALL CONSIDER THE SEISMIC FACTOR,

SUITABLE FOR SEISMIC UBC 97 ZONE 4, AND THE RESULTS SHALL BE PROVIDED BY VENDOR.

(8) LIST OF DOCUMENTS WILL BE FINALIZED IN VPIS (Vendor Document Index and Schedule).

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	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
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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: ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR F&G DEVICES							شماره صفحه: ۱۷ از ۱۷	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
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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