



نگهداشت و افزایش تولید میدان نفتی بینک
 فعالیت های رو زمینی در بسته های کاری تحت الارض
 احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار
 گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری
 بینک



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

PMR FOR CONTROL SYSTEM/ESD

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D01	0001	MR	IN	320	PEDCO	PPL	BK

شماره صفحه: 1 از 17

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PMR FOR CONTROL SYSTEM/ESD

نگهداشت و افزایش تولید میدان نفتی بینک

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D00	MAY. 2024	IFI	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class:3

CLIENT Doc. Number: F0Z- 708672

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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۰۵۳ - ۰۷۳ - ۹۱۸۴

PMR FOR CONTROL SYSTEM/ESD

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D01	0001	MR	IN	320	PEDCO	PPL	BK

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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, New Gas/Condensate Pipelines (from Binak New GCS to Siahmakan GIS/Binak PU) shall be constructed.

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields Company (NISOC)
PROJECT:	Binak Oilfield Development – Surface Facilities; Gas & Gas-Condensate Pipelines
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 the equipment or supply material.
SUB VENDOR:	The firm or person who will have a direct contract with the Vendor or another Subvendor 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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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
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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, Installation and testing on site of one Set Additional Equipment on Existing Relay Based Control / ESD Panel (located in Siyahmakan CCR) 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

- a. Specified documents in attachment 1 shall be considered as a part of this material Requisition.
- b. All codes and standards which have been referenced in above mentioned specs shall be considered.
- c. 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:

- Σ Reference for the involved specification, chapter and paragraph.
- Σ Technical justification for the non-compliance.
- Σ 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 Set of Additional Equipment on Existing Relay Based Control / ESD Panel (located in Siyahmakan CCR). The scope of supply is detailed at part 5. VENDOR shall include in the supply, all other equipment/devices/items not listed in part 5, 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 Set of Additional Equipment on Existing Relay Based Control / ESD Panel (located in Siyahmakan CCR) Main feature are as below:

- Open / Close Status Alarm Lamp
- Emergency Stop Push Button
- Open / Close Selector Switch
- Normal / SIL3 ESD Relay
- Normal / ESD Terminal Set

Detail of supply is listed below:

No.	Item	Description	Total QTY.
1	Set of Additional Equipment on Existing Relay Based Control / ESD Panel (Note**)	Set of Additional Equipment shall includes SIL3 ESD Relay, Normal Relay, Selector Switch, Signal Lamps, Emergency Stop Push Button (Mushroom Head Key Latch Type), Cable, Internal wiring and interconnections, terminations, ... and all required accessories required for control Panel. The Circuit of this Control shall be designed and Executed by Control System Vendor. The references document is Block Diagram Configuration For Control/ESD/F&G System Doc. No.: "BK-PPL-PEDCO-320-IN-BD-0001" and Control System/ESD system Loop Diagram Doc. No.: "BK-PPL-PEDCO-320-IN-DG-0005".	1

Note**: The suggested quantity of equipment is one 24v DC SIL3 AUX Relay, one 24v DC AUX Relay, two Open/Close Status Alarm Lamp, one Emergency Stop Push Button (Mushroom Head Key Latch Type), one Open / Close Selector Switch, one normal Terminal set, One ESD Terminal set, but the drawing inside the control circuit and equipment MTO shall be finalized by Vendor.

Σ VENDOR shall assume overall responsibility for the design, manufacture, assembly on site, test and performance erection on site, pre-commissioning, commissioning and start up

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assistance 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 AND EPC/EPD 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 vendor products quality
 - o Quality check and identification of the materials and equipment entering in their manufacturing shop.

- Provide detailed specifications and data sheets.
- Transportation to Site (including insurance)
- Packing, marking, preparation for shipment, and delivery.
- The supplier shall take the full responsibility for the whole package control/protection system and shall be responsible for SAT and Commissioning of the package

5.1.2 SPARE PARTS



-) 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**)
-) Special Tools (as option; to be recommended by Vendor)
-) Capital spare parts (as option; to be recommended by Vendor)

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5.1.3 OTHER ITEMS

- Σ Name plate
- Σ Earthing plate
- Σ Preparation for shipment
- Σ Installation and testing on site as per specification
- Σ Free access to manufacturing plants for the PURCHASER's inspectors
- Σ Certificates or declarations of conformance (as required) Daily rate for erection supervision (separate price)
- Σ Daily rate for commissioning and start-up supervision (separate price)
- Σ Training for customer's personnel (refer to BK-GNRAL-PEDCO-000-IN-SP-0003)
- Σ All required meeting at Vendor shop/office including but not limited to:
 - KOM
 - Technical/Clarification meeting
 - Pre-Inspection Meeting

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 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.

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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 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, and testing, final check-out, training 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

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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 CLIENT/EPC CONTRACTOR'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

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">PMR FOR CONTROL SYSTEM/ESD</th></tr><tr><th>نسخه</th><th>سریال</th><th>نوع مدرک</th><th>رشته</th><th>تسهیلات</th><th>صادر کننده</th><th>بسته کاری</th><th>پروژه</th></tr><tr><td>D01</td><td>0001</td><td>MR</td><td>IN</td><td>320</td><td>PEDCO</td><td>PPL</td><td>BK</td></tr></table>	PMR FOR CONTROL SYSTEM/ESD								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	D01	0001	MR	IN	320	PEDCO	PPL	BK	شماره صفحه : 11 از 17
PMR FOR CONTROL SYSTEM/ESD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
D01	0001	MR	IN	320	PEDCO	PPL	BK																			

ATTACHMENT 1

11.1 LIST OF REFERENCE / APPLICABLE DOCUMENTS



No.	Document No.	Document Title	REV.
Instrument			
1.	BK-PPL-PEDCO-320-IN-BD-0001	Block Diagram Configuration For Control/ESD/F&G System	D06
2.	BK-PPL-PEDCO-320-IN-DC-0001	Instrument & Control System Design Criteria	D02
3.	BK-PPL-PEDCO-320-IN-DG-0005	Control System/ESD system Loop Diagram	D04
4.	BK-PPL-PEDCO-320-IN-LD-0001	Control System /ESD Logic Diagram	D02
5.	BK-PPL-PEDCO-320-IN-LI-0002	I/O List For Control /ESD System	D03
6.	BK-PPL-PEDCO-320-IN-PY-0003	Instrument Cable Trench/Route Layout Drawing	D02
7.	BK-PPL-PEDCO-320-IN-DG-0007	Instrument Junction Box Termination Diagram	D03
8.	BK-PPL-PEDCO-320-IN-DG-0001	Instrument Earthing Typical Diagram	D05
9.	BK-PPL-PEDCO-320-IN-LI-0004	Panels & Junction Box List	D02
10.	BK-PPL-PEDCO-320-IN-LI-0005	Set Point & Alarm List	D01
11.	BK-PPL-PEDCO-320-IN-LI-0007	Instrument Cable List	D01
12.	BK-GNRAL-PEDCO-000-IN-SP-0002	Specification For Control System	D04
13.	BK-GNRAL-PEDCO-000-IN-SP-0003	Specification For ESD	D05
14.	BK-GNRAL-PEDCO-000-IN-SP-0010	Specification For Instrument/F&G Cables	D02
15.	BK-GCS-PEDCO-120-IN-DC-0002	Instrument & Control System Design Criteria	D02
Process			
16.	BK-PPL-PEDCO-320-PR-PI-0001	P&ID - Gas Pipeline (to Siahmakan G.I. Station)	D05
17.	BK-PPL-PEDCO-320-PR-PH-0002	Control Philosophy	D01
18.	BK-PPL-PEDCO-320-PR-PH-0005	ESD Philosophy	D02
19.	BK-GNRAL-PEDCO-000-PR-DC-0001	Process Design Criteria	D02
20.	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis Of Design	D08
General			
21.	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی خرید و ساخت کالا	D01
22.	ICE-EID-MI-SP02-Rev01	دستورالعمل سطح بازرسی کالا و تجهیزات	D01
23.	E&C-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبردی دوساله	D00
24.	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
25.	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.**

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک							
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR CONTROL SYSTEM/ESD							شماره صفحه : 12 از 17
	پروژه BK	بسته کاری PPL	صادرکننده PEDCO	تسهیلات 320	رشته IN	نوع مدرک MR	سریال 0001	نسخه D01

ATTACHMENT 2

11.2 VENDOR DOCUMENTS MIN. REQUIREMENT

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
MANAGEMENT						
1	Vendor Document Index and Schedule	4N	6C+E		6C+E	
2	Organization Brief	3N	6C+E			
3	Schedule Level 1, 2, 3 & 4 showing Engineering, Procurement, Fabrication, Inspection, Testing, and Delivery Plan.	4N	6C+E		6C+E	
4	Physically Progress Report (Every 2 Weeks)		6C+E			
5	Project Organization Chart	3N	6C+E			
6	Reference List	3N				
7	Vendor Catalogue	3N				
QUALITY						
8	Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)	4N			6C+E	
9	Preliminary / Inspection and Test Plan	4N				
10	Inspection and Test Plan		6C+E		6C+E	
11	Quality Control Plan	4N				
HSE						
12	HSE Procedure		6C+E		6C+E	
ENGINEERING						
13	Supplier Document Schedule	3N	6C+E		6C+E	
14	Power Consumption List	3N	6C+E		6C+E	
15	Detailed Devices Catalogues	3N	6C+E		6C+E	
16	Equipment List And Cabinet Bill Of Material		6C+E		6C+E	

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک							
شماره پیمان:	PMR FOR CONTROL SYSTEM/ESD							شماره صفحه : 13 از 17
۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	PPL	PEDCO	320	IN	MR	0001	D01

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
17	Loop Diagrams		6C+E		6C+E	
18	Earthing Diagram		6C+E		6C+E	
19	General Arrangement		6C+E		6C+E	
20	Reliability/Availability Report		6C+E		6C+E	
PROCUREMENT						
21	List of Sub-Suppliers (table giving: part of equipment, tag no., sub-supplier reference)	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	
29	Site Acceptance Test (SAT) Procedure		6C+E		6C+E	
RECORDS, REPORTS & CERTIFICATES						
30	HAZARDOUS AREA CLASSIFICATION CERTIFICATES - Testifying to suitability of electrical/electronic apparatus for use in the Hazardous Area Specified.				6C+E	
31	INGRESS PROTECTION CERTIFICATES - Testifying to suitability of electrical/electronic apparatus for use in the Hazardous Area Specified.				6C+E	
32	CONFORMITY/COMPLIANCE				6C+E	

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">PMR FOR CONTROL SYSTEM/ESD</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>IN</td><td>320</td><td>PEDCO</td><td>PPL</td><td>BK</td></tr></table>	PMR FOR CONTROL SYSTEM/ESD								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D01	0001	MR	IN	320	PEDCO	PPL	BK	شماره صفحه : 14 از 17
PMR FOR CONTROL SYSTEM/ESD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D01	0001	MR	IN	320	PEDCO	PPL	BK																			

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
		Copies No./Type	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
	CERTIFICATES Attesting conformance to type approval.					
33	MANUFACTURING RECORD BOOK INDEX (Standard index will be issued with the Purchase Order).		6C+E		6C+E	
34	SAT Report				6C+E	
35	Conformity Certificates (sub-supplier/equipment)		6C+E		6C+E	
INSTALLATION						
36	Sub-Assembly Documentation		6C+E		6C+E	
37	Sub-Assembly Drawings		6C+E		6C+E	
38	Erection/Installation Manual		6C+E		6C+E	
39	Name Plate Documents		6C+E		6C+E	
40	Handling, Transportation & Storage Instructions		6C+E		6C+E	
41	Unpacking & Inspection Instructions		6C+E			
42	Preliminary Packing List	4N				
43	Packing List		6C+E		6C+E	
OPERATION & MAINTENANCE						
44	Operating Instructions		6C+E		6C+E	
45	Maintenance Instructions		6C+E		6C+E	
46	Commissioning & Start-up Manual		6C+E		6C+E	
47	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	
48	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	
49	List of Special Tools	4N	6C+E		6C+E	
OTHERS						
50	Vendor Final Book				6C+E	1 week after delivery
51	All others documents will be listed in the		6C+E			

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک																									
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PMR FOR CONTROL SYSTEM/ESD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D01	0001	MR	IN	320	PEDCO	PPL	BK																			

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

	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک							
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	PMR FOR CONTROL SYSTEM/ESD							شماره صفحه : 17 از 17
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	PPL	PEDCO	320	IN	MR	0001	
							D01	

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