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طرح نگهداشت و افزایش تولید ۲۷ مخزن

PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD

نگهداشت و افزایش تولید میدان نفتی بینک

D02	JAN. 2023	FI	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D01	OCT. 2022	IFI	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	JUL. 2022	IFI	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 3

Client Doc. Number: F0Z-708103

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, construction of well location, access road, wellhead facilities (with electric power supply) for W007S shall be done. In addition, construction of new flowline from aforementioned well location to Binak B/C unit (with extension of relevant manifold) are in the Project scope of work.

GENERAL DEFINITION

The following terms shall be used in this document.



CLIENT:	National Iranian South Oilfields Company (NISOC)
PROJECT:	Binak Oilfield Development – Construction of Well Location, Wellhead Facilities, Electrification Facilities, Flowlines for W007S and Extension of Binak B/C Manifold
EPD/EPC CONTRACTOR (GC):	Petro Iran Development Company (PEDCO)
EPC CONTRACTOR/ <u>PURCHSER</u> :	Joint Venture of : Hirgan Energy – Design & Inspection(D&I) Companies
VENDOR:	The firm or person who will fabricate <u>or supply</u> 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, <u>supplier</u> 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 control system, console, Furniture as listed in item 4.0 "SUBJECT OF THE SUPPLY"

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:

- 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~~ **VENDOR** shall be considered to be in full compliance with the relevant document.

~~The supplier~~ **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.

D02

4.0 SUBJECT OF THE SUPPLY

D02

~~The supplier~~ **VENDOR** shall supply control system, console, Furniture, Work stations and printers. The scope of supply is detailed at para. 5. ~~The supplier~~ **VENDOR** shall include in the supply, all other equipment/devices/items not listed in the following, but necessary for a good design and a

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safe operation, taking into account process data and installation conditions such as area classification and climatic conditions.

- The vendor's supply shall include:

No.	Item	Description	Total QTY.
1	DCS	Control System (including marshaling and system cabinets) for signals in EXTENSION OF BINAK B/C MANIFOLD	1
2	DCS OWS	DCS/ESD Operator Workstation with Double 32" Monitor including required softwares and Software Licenses (One Operating Work Station for both DCS & ESD systems shall be considered) including required HMI softwares and software licenses.	2
3	DCS EWS	DCS Engineering Workstation including required softwares and software licenses	1
4	Network Panel	Wall mounted Network Panel including redundant network switches, printers LAN switches and all required accessories	1
5	Serial Cables	Serial cables between DCS and other systems and subsystems (ESD, FACP, Packages UCP, ...)	1
6	PRINTER(1)	Black & White Laser Printers	2
7	PRINTER(2)	Color Printer for Process Graphic	1
8	LAPTOP	DCS/ESD maintenance Laptop as per project Specification including required softwares and Software Licenses	1
9	Furniture	Required Furniture (Desk and Chairs) for Workstations and Printers	1

D02

Note: All interface required facilities such as communication network/cables, switches, printers, furniture... will be considered in DCS vendor scope of work.

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 THE VENDOR'S SCOPE OF ENGINEERING

Scope of Engineering services includes all items specified in documents, mentioned in "LIST OF REFERENCE / APPLICABLE DOCUMENTS" included in Attachment 1, but not limited to the followings:

- Design, Engineering and Documentation Drawings, documentation and certification in accordance with section 8.0 of this requisition
- Project management including coordination with all Package Suppliers/Vendors and other subsystems Vendors.
- Systems' hardware engineering studies including:
 - System sizing
 - System architecture specification
 - Consoles and system cabinets design and arrangement
 - Etc.
- Systems' software engineering including :
 - DCS functional design specifications
 - I/O segregation and assignment
 - Control strategy and typical I/O loop specification
 - DCS communication interface database definition
 - Specification of communication interfaces with other subsystems including coordination with subsystems' Vendors
 - Standard, graphic displays and report definition
 - Etc
- Marshaling cabinets' engineering studies
- Distribution cabinets' engineering studies
- DCS Marshaling / Distribution cabinets' hardware and software factory acceptance tests.
- System integration tests
- On site erection supervision, pre-commissioning, commissioning and start up assistance.
- DCS Engineer daily assistance (on site).
- DCS hardware technician daily assistance (on site).
- Training for DCS system shall be according to project documents (refer to BK-GNRAL-PEDCO-000-IN-SP-0002)
- Transportation to Site (including insurance)
- Packing, marking, preparation for shipment, and delivery

5.2 THE VENDOR'S SCOPE OF SUPPLY:

Scope of supply includes all items specified in documents, mentioned in "LIST OF REFERENCE / APPLICABLE DOCUMENTS" included in Attachment 1, but not limited to the followings:

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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BK	W007S	PEDCO	110	IN	MR	0001	D02																			
۰۵۳ - ۰۷۳ - ۹۱۸۴																										

- DCS System, power distribute and marshaling Cabinets contain all required hardware, CPUs, Power supply , redundancy modules, I/Os, relays and barriers , communication devices, internal wiring and interconnections, terminations, fan, heater, hydrostat... and all required accessories required for control and monitoring of the plant as per Doc.no. BK-GNRAI-PEDCO-000-IN-SP-0002 and all other referenced documents.
- Networking devices and accessories and interconnections as per BK-W007S-PEDCO-110-IN-DG-0001 and all other referenced documents.
- All PC and Laptop required to be provided as operator/engineering work stations as per Doc.no. BK-GNRAI-PEDCO-000-IN-SP-0002 and all other referenced documents.
- Licensed software as minimum in accordance with Doc.no. BK-GNRAI-PEDCO-000-IN-SP-0002 and all other referenced documents
- Furniture to place common control room devices, and ... as per Doc.no. BK-W007S-PEDCO-110-PY-0001 and all other referenced documents

5.3 SCOPE OF RESPONSIBILITY:

The supplier 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 within the scope of supply
- Provide complete engineering of control system including detailed engineering, documentation, specifications, data sheet, Drawings,... for all the components
- Provide complete engineering of Interface documents for instrumentation and control of the package including all termination, signal list and communication ports
- Provide detailed design and documentation of all equipment 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
- Implement a quality assurance plan
- The quality plan applied to the scope of supply shall include:
 - QA/QC organization 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

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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- 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
- System integration tests(including wiring and logic/function test as per BK-GNRAL-PEDCO-000-IN-SP-0002)
- Provide detailed specifications and data sheets for primary measure elements for complete package control and automat control and isolation valves.
- ~~The supplier~~ Vendor shall take the full responsibility for the whole package control/protection system and shall be responsible for SAT and Commissioning of the package

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5.4 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&D-QC-SP-1)
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&D-QC-SP-1)
- Special Tools (as option; to be recommended by Vendor)
- Capital spare parts (as option; to be recommended by Vendor)

5.5 OTHER ITEMS

- Special tools required for installation and maintenance (a qualified and complete list has to be included in the bid documentation)
- Noise acoustic protection and relevant ancillaries in order to match with max. noise level requirements (if necessary)
- Spreader bars for lifting of the panels (if necessary)
- Name plate
- Earthing plate
- Painting of all cabinet in accordance with "Specification For Control Panels and System Cabinets Doc. No. BK-GNRAL-PEDCO-000-IN-SP-0011"
- Preparation for shipment
- Packing for sea freight transportation
- Shop inspections and testing as per specification

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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- Free access to manufacturing plants for the PURCHASER's inspectors
- Certificates or declarations of conformance (as required) Daily rate for erection supervision (separate price)
- Daily rate for commissioning and start-up supervision (separate price)
- Training for customer's personnel for DCS system , according to project documents (BK-GNRL-PEDCO-000-IN-SP-0002)
-
- All required meeting at Vendor shop/office including but not limited to:
 - KOM
 - Technical/Clarification meeting
 - Pre-Inspection Meeting

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 (GC) 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.

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.

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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- All documents, preliminary or final, are to be stamped and signed by **the supplier 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"**

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8.0 VENDOR 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.

Preparation of complete final book, Training courses and assistance during Pre-Commissioning/Commissioning/Startup are also in VENDOR responsibility as per project specification.

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

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9.0 GUARANTEE AND WARRANTY

VENDOR shall be fully responsible for the manufacture in respect of proper design, quality, workmanship and operation of all the equipment, accessories etc. including supplied by sub-contractors/VENDORS. This includes both hardware and software. Guarantee conditions and warranty period shall be as stated in the commercial section documents.

It shall be obligatory on the part of VENDOR to modify and/or replace any hardware and modify the operating, application and diagnostic software free of cost, in case any malfunction is revealed even during on-line operation after taking over, within the warranty period.

The System shall be guaranteed against malfunction, partial or complete failure resulting from or attributed to the following:

- Sub-standard components and materials.
- Incorrectly rated components and materials.

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۰۵۳ - ۰۷۳ - ۹۱۸۴																										

- Sub-standard workmanship, including but not limited to sub-standard design, construction, alignment, and setting-up.
- Adjustments carried strictly in accordance with VENDOR's manuals or written instructions where those manuals of instructions are in error.

VENDOR shall assume full responsibility for his Sub-VENDORS of equipment and ancillaries supplied under this specification i.e. individual equipment warranties etc. are not to be signed over to the CONTRACTOR but will remain that of the equipment package VENDOR.

If poor performance occurs or defects are found during the warranty period, VENDOR shall make all necessary alternations, repairs and replacements, including shipment of parts and mobilization of assistance, free of charge.

The guarantee period shall be eighteen (18) months from the date of delivery or twelve (12) months from the date of installation, whichever occurs later. Anyway guarantee period shall not be less than twelve (12) months.

Manufacturers shall also guarantee all equipment furnished against defects in design, materials, and workmanship and will bear the entire cost of correcting such defects which would develop during the specified warranty period.

The manufacturers/suppliers shall guarantee the supply of min. 20 years spare parts for the quoted equipment.

VENDOR is to provide a list of parts and state for each the replacement time and repair turnaround time under warranty.

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 (E&C-QC-SP-1)
- 3) 2 years operational spare parts (E&C-QC-SP-1)

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- 4) Packing & transportation
- 5) Other fee

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ATTACHMENT 1

D02

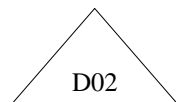
11.1 LIST OF REFERENCE / APPLICABLE DOCUMENTS

No.	Document No.	Document Title	Rev.
Process			
1	BK-SSGRL-PEDCO-110-PR-PH-0002	Control Philosophy	D02
2	BK-SSGRL-PEDCO-110-PR-PI-0001	Symbol & Legend For PFD and P&ID	D03
3	BK-W007S-PEDCO-110-PR-PI-0001	P&ID - Extension of Binak B/C Manifold	D04
Instrument			
4	BK-SSGRL-PEDCO-110-IN-DC-0002	Instrument & Control System Design Criteria	D03
5	BK-GNRAL-PEDCO-000-IN-SP-0002	Specification For Control System	D04
6	BK-GNRAL-PEDCO-000-IN-SP-0004	Specification For Instrument and Control of Package Unit System (PU)	D02
7	BK-GNRAL-PEDCO-000-IN-SP-0010	Specification For Instrument/F&G Cables	D02
9	BK-W007S-PEDCO-110-IN-DG-0001	Block Diagram Configuration For Control/ESD/F&G System - Extension of Binak B/C Manifold	D06
10	BK-W007S-PEDCO-110-IN-DG-0006	Control System Loop Diagram - Extension of Binak B/C Manifold	D02
11	BK-W007S-PEDCO-110-IN-DG-0009	Instrument & F&G Junction Box Termination Diagram - Extension of Binak B/C Manifold	D03
12	BK-W007S-PEDCO-110-IN-LD-0001	Control System Logic Diagram - Extension of Binak B/C Manifold	D02
13	BK-W007S-PEDCO-110-IN-PY-0001	Control Room Layout & Arrangement Drawing - Extension of Binak B/C Manifold	D02
	BK-W007S-PEDCO-110-IN-DG-0014	Wiring Diagram; Interposing Relay Panel (IRP) - Extension of Binak B/C Manifold	-
14	BK-W007S-PEDCO-110-IN-LI-0002	I/O List For Control System - Extension of Binak B/C Manifold	D02
15	BK-W007S-PEDCO-110-IN-LI-0005	Panels & Junction Box List - Extension of Binak B/C Manifold	D02
16	BK-W007S-PEDCO-110-IN-LI-0006	Set Point & Alarm List - Extension of Binak B/C Manifold	D01
17	BK-W007S-PEDCO-110-IN-LI-0007	I&C Power Consumption Summary - Extension of Binak B/C Manifold	D04
18	BK-W007S-PEDCO-110-IN-LI-0009	Instrument /F&G Cable List - Extension of Binak B/C Manifold	D03
19	BK-W007S-PEDCO-110-IN-DG-0002	Instrument Earthing Typical Diagram - Extension of Binak B/C Manifold	D02
General			

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D02	0001	MR	IN	110	PEDCO	W007S	BK																			
۰۵۳ - ۰۷۳ - ۹۱۸۴																										

No.	Document No.	Document Title	Rev.
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&D-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دو سالانه	D00
24	BK-GNRAL-PEDCO-000-QC-PR-0002	QUALITY CONTROL PLAN (QCP)	D00
25	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
26	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</p> <p>فعالیت های روزمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD</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>D02</td><td>0001</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table>	PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	D02	0001	MR	IN	110	PEDCO	W007S	BK	شماره صفحه: ۱۶ از ۲۱
PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
D02	0001	MR	IN	110	PEDCO	W007S	BK																			

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						
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				
QUALITY						
008	Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)	4N			6C+E	
009	Preliminary / Inspection and Test Plan	4N				
010-1	Inspection and Test Plan		6C+E		6C+E	DO NOT WRITE IN THIS SPACE
010-2	Quality Control Plan	4N				
HSE						
011	HSE Procedure		6C+E		6C+E	
ENGINEERING						
012	Supplier Document Schedule	3N	6C+E		6C+E	
013	Power Consumption List	3N	6C+E		6C+E	

D02

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های روزمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
D02	0001	MR	IN	110	PEDCO	W007S	BK																			
۰۵۳ - ۰۷۳ - ۹۱۸۴																										

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)
014	Detailed Devices Catalogues	3N	6C+E		6C+E	
015	Equipment List And Cabinet Bill Of Material		6C+E		6C+E	
016	Control System Software Catalogue	3N	6C+E		6C+E	
017	Electrical Panel/ESD Console Interconnection Wiring Diagram		6C+E		6C+E	
018	Software System - Specifications		6C+E		6C+E	
019	Hardware System - Specifications		6C+E		6C+E	
020	Loop Diagrams		6C+E		6C+E	
021	I/O assignment		6C+E		6C+E	
022	Graphic Pages printout		6C+E		6C+E	
023	System Architecture and Network	3N	6C+E		6C+E	
024	Cable Termination's/Connection Diagrams		6C+E		6C+E	
025	Panel/ESD Console Layout		6C+E		6C+E	
026	Power Distribution Diagram		6C+E		6C+E	
027	System Software/logic printout		6C+E		6C+E	
028	Furniture details and arrangement		6C+E		6C+E	
029	Earthing Diagram		6C+E		6C+E	
030	Control Room And Technical Arrangement		6C+E		6C+E	
031	Reliability/Availability/FEMA Report		6C+E		6C+E	
032	MODBUS Mapping List		6C+E		6C+E	
PROCUREMENT						
033	List of Sub-Suppliers (table giving: part of equipment, tag no., sub-supplier reference)	4N			6C+E	
034	Unpriced copy of sub-orders		6C+E			

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های روزمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
<p>شماره پیمان:</p> <p>۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<table><tr><th colspan="8">PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD</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>D02</td><td>0001</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table>	PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D02	0001	MR	IN	110	PEDCO	W007S	BK	<p>شماره صفحه: ۱۸ از ۲۱</p>
PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D02	0001	MR	IN	110	PEDCO	W007S	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)
035	Packing Spec. / Shipping Schedule	3N	6C+E		6C+E	
036	Weight List/ Shipping List	3N	6C+E		6C+E	
037	Mechanical & Performance Guarantees	3N	6C+E		6C+E	
TESTING						
038	Manufacturing, Test & Inspection Procedures	3N	6C+E		6C+E	
039	Performance & Functional Test Procedure		6C+E		6C+E	
040	Factory Acceptance Test (FAT) Procedure		6C+E		6C+E	
041	Site Acceptance Test (SAT) Procedure		6C+E		6C+E	
RECORDS, REPORTS & CERTIFICATES						
042	HAZARDOUS AREA CLASSIFICATION CERTIFICATES - Testifying to suitability of electrical/electronic apparatus for use in the Hazardous Area Specified.				6C+E	
043	INGRESS PROTECTION CERTIFICATES - Testifying to suitability of electrical/electronic apparatus for use in the Hazardous Area Specified.				6C+E	
044	CONFORMITY/COMPLIANCE CERTIFICATES Attesting conformance to type approval.				6C+E	
045	MANUFACTURING RECORD BOOK INDEX (Standard index will be issued with the Purchase Order).		6C+E		6C+E	
046	Pre-FAT Report				6C+E	
047	FAT Report				6C+E	
048	Conformity Certificates (sub-supplier/equipment)		6C+E		6C+E	

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های روزمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
D02	0001	MR	IN	110	PEDCO	W007S	BK																			
۰۵۳ - ۰۷۳ - ۹۱۸۴																										

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)
INSTALLATION						
049	Sub-Assembly Documentation		6C+E		6C+E	
050	Sub-Assembly Drawings		6C+E		6C+E	
051	Erection/Installation Manual		6C+E		6C+E	
052	Name Plate Documents		6C+E		6C+E	
053	Handling, Transportation & Storage Instructions		6C+E		6C+E	
054	Unpacking & Inspection Instructions		6C+E			
055	Preliminary Packing List	4N				
056	Packing List		6C+E		6C+E	
OPERATION & MAINTENANCE						
057	Operating Instructions		6C+E		6C+E	
058	Maintenance Instructions		6C+E		6C+E	
059	Commissioning & Start-up Manual		6C+E		6C+E	
060	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	
061	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	
062	List of Special Tools	4N	6C+E		6C+E	
063	Software Manual (incl. Troubleshooting)		6C+E		6C+E	
OTHERS						
064	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) List of Documents will be Finalized in Vendor Document Index and Schedule.

D02

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PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	W007S	PEDCO	110	IN	MR	0001	D02																			
۰۵۳ - ۰۷۳ - ۹۱۸۴																										

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

	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>																									
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PMR FOR CONTROL SYSTEM/CONSOLE/FURNITURE EXTENSION OF BINAK B/C MANIFOLD																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	W007S	PEDCO	110	IN	MR	0001	D02																			
۰۵۳ - ۰۷۳ - ۹۱۸۴																										

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