

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک  فعالیت های رو زمینی در بسته های کاری تحت الارض  ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،  تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه  چندراهه کلاستر بینک</p>																	
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BK	W007S	PEDCO	110	IN	MR	0005	D01											

## طرح نگهداشت و افزایش تولید 27 مخزن

### PMR FOR CONTROL VALVE – EXTENSION OF BINAK B/C MANIFOLD

نگهداشت و افزایش تولید میدان نفتی بینک

D01	JUN. 2022	IFI	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAR. 2022	IFI	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
Class: 4		CLIENT Doc. Number: F0Z-708111				
<b>Status:</b> 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  فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،  تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه  چندراهه کلاستر بینک</p>																	
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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, 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) is in the Project scope of work.

### **GENERAL DEFINITION**

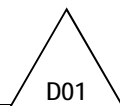
The following terms shall be used in this document.

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:	Joint Venture of : Hirgan Energy – Design & Inspection(D&I) Companies
VENDOR:	The firm or person who will fabricate the equipment or material.
EXECUTOR:	Executor is the party which carries out all or part of construction and/or commissioning for the project.
THIRD PARTY INSPECTOR (TPI):	The firm appointed by EPD/EPC CONTRACTOR (GC) and approved by CLIENT (in writing) for the inspection of goods.
SHALL:	Is used where a provision is mandatory.
SHOULD:	Is used where a provision is advisory only.
WILL:	Is normally used in connection with the action by CLIENT rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR.
MAY:	Is used where a provision is completely discretionary.

 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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## 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 Valves as listed below. All equipment/devices/items shall conform to this requisition and all specifications which have been mentioned in attachment 1 of this material requisition.
- The vendor's supply shall include:



No.	Item	Description	Total QTY.
1	FCV-1701A	Control Valves, Globe Type, 2" #600	1
2	FCV-1701B	Control Valves, Globe Type, 3" #600	1
3	FCV-1701C	Control Valves, Globe Type, 2" #600	1
4	FCV-1701D	Control Valves, Globe Type, 4" #600	1
5	FCV-1701E	Control Valves, Globe Type, 3" #600	1
6	FCV-1701F	Control Valves, Globe Type, 2" #600	1

## 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.

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BK	W007S	PEDCO	110	IN	MR	0005	D01											

- Technical justification for the non-compliance.
- Detailed description of the proposed alternative.

If no exceptions or clarifications exist, either for the complete referenced document or an individual paragraph, the supplier shall be considered to be in full compliance with the relevant document.

The supplier may propose materials of equivalent or better quality compared to those indicated in the equipment data sheet. Even these cases shall be duly included/technically supported in the deviations/clarifications list.

#### 4.0 SUBJECT OF THE SUPPLY

The supplier shall supply all above Control Valves. The scope of supply is detailed at part 5. The supplier shall include in the supply, all other equipment/devices/items not listed in the following, but necessary for a good design and 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.

#### 5.0 LIMITS OF SUPPLY

##### 5.1 SCOPE OF SUPPLY

##### 5.1.1 MAIN DESCRIPTION

The scope of supply includes 6 Nos. Control Valves. Main feature are as below:

- Flow Control Valves, Globe Type
- Actuator
- Positioner
- Painting and coating (if required) (As per Specification For Painting)



The supplier shall assume overall responsibility for the design, manufacture, assembly, test and performance of all equipment/devices/items supplied as indicated in this requisition. This shall include, but not be limited to:

- Resolve engineering issues relating to equipment/devices/items within the scope of supply.

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- Provide detailed design and documentation of all equipment/devices/items and components within the scope of supply in accordance with attachment 2 of this document.
- Provide all necessary information documents in order to allow the contractor to erect, install and verify the proposed equipment/devices/items.
- Implement a quality assurance plan
- The quality plan applied to the scope of supply shall include:
  - QA/QC organization CHART and procedures that shall be submitted for approval.
  - Plan for HOLD points in the production process proposed to PURCHASER for witness or approval particular activities.
  - Production schedule indicating main quality manufacturing processes, inspection and tests.
  - Qualification of all personnel performing tests to be reviewed by the inspector
  - Supplier shall also provide the description of the following quality activities:
    - o Sub suppliers 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

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).
- Capital spare parts (as option /if any)

#### 5.1.3 OTHER ITEMS

No other item is required

### 5.2 EXCLUSIONS

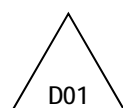
No exclusion is applicable.

### 5.3 BATTERY LIMITS

No battery limit is applicable.

	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک								
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	پروژه BK	بسته کاری W007S	صادر کننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک MR	سریال 0005	نسخه D01	

## 6.0 INSPECTION AND TESTS



The equipment shall be inspected and tested in accordance with the quality control plan issued by the supplier and approved by the PURCHASER before the award of the order. The QC plan shall at least be according to the PROJECT ITP PROCEDURE (Doc. No ICE-EID-MI-SP-01) ~~and data sheets (if any).~~

Presence of an inspector in the manufacturer's factory during construction, inspecting manufacturer's shop and warehouse and construction progress as per the specific time schedule also in final stages of construction, witness of required test, final inspection, static, functional tests, etc. (Inspection Level 2) based on purchase requirements, standards and Project ITP is required.

The supplier shall in any case conduct all the tests required by contractual documents, specifications, codes and standards, manufacturer standard quality system and keep the relevant documentation.



All required manufacturing and function test/inspection also Factory acceptance test /Site acceptance test ~~(if required)~~ 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 supplier.
- Failure in dispatch of the required documents shall cause the supply to be considered as unfulfilled.
- PURCHASER's approval does not relieve vendor, in any way, from his obligation to fulfill the requirements of the purchase order documents.
- All vendor drawings and documents shall be in English language.
- All drawings and documents are to be identified as per clause 1 **"GENERAL DEFINITION"**



 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>																	
شماره پیمان:	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD	شماره صفحه: 9 از 20																
053 - 073 - 9184	<table><tr><td>پروژه</td><td>بسته کاری</td><td>صادر کننده</td><td>تسهیلات</td><td>رشته</td><td>نوع مدرک</td><td>سریال</td><td>نسخه</td></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0005</td><td>D01</td></tr></table>		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	W007S	PEDCO	110	IN	MR	0005	D01
	پروژه		بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه									
BK	W007S	PEDCO	110	IN	MR	0005	D01											

## 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.

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

## 9.0 PRESERVATION, STORAGE AND SHIPMENT



Instrumentation shall be adequately protected, suitable for shipment and storage at site, prior to dispatch from the Supplier's works. All instrument items shall be protected from vibrations and shocks normally expected during handling, loading/unloading and shipment.

The packing shall also be suitable for storage of the instrumentation for up to 6 months in the harsh outdoor environment described in Section 6.1. The packing shall be adequate to resist the humidity, temperature extremes and corrosion conditions to be expected in the various site locations. The pressure relief valves and its accessories shall be supplied pre-assembled. Valves shall be supplied as a whole, complete with all the accessories like cap, lifting lever, test gag, etc. All threaded and flanged openings shall be suitably covered to prevent entry of foreign material.

## 10.0 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 (if any).



 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>								
شماره پیمان:  053 - 073 - 9184	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD							شماره صفحه : 10 از 20	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
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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.

## 11.0 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/CLIENT's approval.

 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>																	
شماره پیمان:	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD	شماره صفحه : 11 از 20																
053 - 073 - 9184	<table><tr><td>پروژه</td><td>بسته کاری</td><td>صادر کننده</td><td>تسهیلات</td><td>رشته</td><td>نوع مدرک</td><td>سریال</td><td>نسخه</td></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0005</td><td>D01</td></tr></table>		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	W007S	PEDCO	110	IN	MR	0005	D01
	پروژه		بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه									
BK	W007S	PEDCO	110	IN	MR	0005	D01											



Other than deviation which will be signed and sent during P.O phase, construction and test phases also should be provided by vendor.

## 12.0 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 (END-QC-SP-1)
- 3) 2 years operational spare parts (END-QC-SP-1)
- 4) Packing & transportation
- 5) ~~Other fee (if any)~~



 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>																	
شماره پیمان:	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD	شماره صفحه : 12 از 20																
053 - 073 - 9184	<table><tr><td>پروژه</td><td>بسته کاری</td><td>صادر کننده</td><td>تسهیلات</td><td>رشته</td><td>نوع مدرک</td><td>سریال</td><td>نسخه</td></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0005</td><td>D01</td></tr></table>		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	W007S	PEDCO	110	IN	MR	0005	D01
	پروژه		بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه									
BK	W007S	PEDCO	110	IN	MR	0005	D01											

## ATTACHMENT 1

### 12.1 LIST OF REFERENCE / APPLICABLE DOCUMENTS

D01

No.	Document No.	Document Title	Rev.
<b>Process</b>			
1.	BK-GNRAL-PEDCO-000-PR-DC-0001	Process Design Criteria	D02
2.	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis Of Design	D05
3.	BK-W007S-PEDCO-110-PR-PI-0001	P&ID - Extension of Binak B/C Manifold	D01
<b>Piping</b>			
4.	BK-SSGRL-PEDCO-110-PI-SP-0001	Piping Material Specification	D01
5.	BK-GNRAL-PEDCO-000-PI-SP-0006	Specification For Painting	D04
<b>Instrument</b>			
6.	BK-GNRAL-PEDCO-000-IN-SP-0001	Specification For Instrumentation	D03
7.	BK-SSGRL-PEDCO-110-IN-DC-0002	Instrument & Control System Design Criteria	D01
8.	BK-W007S-PEDCO-110-IN-DT-0006	Data Sheets For Control/Regulator valves - Extension of Binak B/C Manifold	D01
9.	BK-GNRAL-PEDCO-000-IN-SP-0005	Specification For Control Valves	D02
10.	BK-W007S-PEDCO-110-IN-DG-0003	Instrument Hook-up Diagram - Extension of Binak B/C Manifold	D00
<b>General</b>			
11.	ICE-EID-MI-SP01	دستورالعمل بازرسی، خرید و ساخت کالا	D01
12.	ICE-EID-MI-SP02	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	D01
13.	E&D-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دو سالانه	-
14.	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
15.	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00

 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>							
شماره پیمان:  053 - 073 - 9184	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD							شماره صفحه : 13 از 20
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	W007S	PEDCO	110	IN	MR	0005	D01

## ATTACHMENT 2

### 12.2 VENDOR DOCUMENTS MIN. REQUIREMENT



NO.	DESCRIPTION	WITH BID	AFTER ORDERING				FINAL DOCUMENT (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
MANAGEMENT							
1	Vendor Document Index and Schedule	1N	(5)	2W	A	(5)	X
2	Organization Brief	1N	(5)	2W	I	(5)	
3	Schedule Level 1, 2, 3 & 4 showing Engineering, Procurement, Fabrication, Inspection, Testing, and Delivery Plan.	4N	(5)	3W	A	(5)	X
4	Physically Progress Report (Every 2 Weeks))		(5)	2W	I	(5)	
5	Project Organization Chart	3N	(5)	2W	A	(5)	X
6	Reference List	1N	(5)	2W	I	(5)	
7	Vendor Catalogue	1N	(5)	2W	I	(5)	X
QA/QC							
8	Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)		(5)	3W	A	(5)	X
9	Procedure Qualification Record & Welding Procedure Specification		(5)	3W	A	(5)	X
10	Hydrostatic/Pneumatic Test Procedure		(5)	4W	A	(5)	X
11	Quality Control Plan		(5)	4W	A	(5)	X
12	Post Weld Heat Treatment Procedure		(5)	4W	A	(5)	X
13	Weld and NDT Map (if any)		(5)	4W	A	(5)	X
14	Surface Preparation and Painting Procedures		(5)	4W	A	(5)	X
15	Welding Procedure Specification (including repair procedures). (if any)		(5)	4W	A	(5)	X
16	Welder Qualification Procedure (if any)		(5)	4W	A	(5)	X

 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>								
شماره پیمان:  053 - 073 - 9184	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD							شماره صفحه : 14 از 20	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	W007S	PEDCO	110	IN	MR	0005	D01	

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				FINAL DOCUME NT (4)
		Q./TYPE (1)	Q./TY PE (1)	DELIVERY DATE (2)	PURPO SE (3)	FINAL ISSUE	
17	Manufacturing, Inspection & Test Procedures	1N	(5)	4W	A	(5)	X
18	Performance & Functional Test Procedure		(5)	4W	A	(5)	X
19	Non-Destructive Testing/Examination Procedures		(5)	4W	A	(5)	X
20	Factory Acceptance Test (FAT) Procedure	1N	(5)	4W	A	(5)	X
21	Site Acceptance Test (SAT) Procedure	1N	(5)	4W	A	(5)	X
22	<del>Welding Inspection Reports</del>		<del>(5)</del>	<del>4W</del>	<del>A</del>	<del>(5)</del>	<del>X</del>
23	<del>VT Inspection Report</del>		<del>(5)</del>	<del>4W</del>	<del>A</del>	<del>(5)</del>	<del>X</del>
HSE							
24	HSE Procedure		(5)	4W	A	(5)	X
INTERFACE							
25	Package Data Sheets	1N	(5)	4W	A	(5)	X
26	General Arrangements Drawings	1N	(5)	4W	A	(5)	X
27	Part List	1N	(5)	4W	A	(5)	X
28	Pneumatic Functional Diagram		(5)	4W	A	(5)	X
29	Utility Consumption List	1N	(5)	4W	A	(5)	X
30	Weight / Centre of Gravity Drawings & Data's		(5)	4W	I	(5)	
ENGINEERING							
31	Detailed Functional Design Specification		(5)	4W	A	(5)	X
32	Detailed Overall Description		(5)	4W	A	(5)	X
33	Mechanical Detailed Specifications (one per component)		(5)	4W	A	(5)	X
34	Detailed Design / Fabrication Drawings for Equipment & Auxiliary Parts		(5)	4W	A	(5)	X

 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>								
شماره پیمان:  053 - 073 - 9184	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD							شماره صفحه : 15 از 20	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	W007S	PEDCO	110	IN	MR	0005	D01	

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				FINAL DOCUME NT (4)
		Q./TYPE (1)	Q./TY PE (1)	DELIVERY DATE (2)	PURPO SE (3)	FINAL ISSUE	
35	Cross Sectional Drawings with Part Lists		(5)	4W	A	(5)	
36	Assembly Drawings	1N	(5)	4W	A	(5)	
37	Design Calculation (For Hydraulic and Nitrogen supplies)		(5)	4W	A	(5)	
38	Instrument Hook-Up and installation Diagrams	1N	(5)	4W	A	(5)	
39	Approximate Weight & Dimension		(5)	4W	A	(5)	X
40	Shipping Detail Drawing		(5)	4W	A	(5)	
41	Cause & effect of the package		(5)	4W	A	(5)	X
42	Final Data Book		(5)	4W	A	(5)	X
PROCUREMENT							
43	List of Sub-Vendors ( table giving: part of equipment, tag no., sub-vendor reference)(5.1.3) (if any)	1N	(5)	4W	A	(5)	X
44	Unpriced Copy of Sub-Orders	1N	(5)	4W	I	-	
45	Packing Spec. / Shipping Schedule	1N	(5)	4W	I	-	
46	Weight List/ Shipping List	1N	(5)	4W	I	(5)	
47	Mechanical & Performance Guarantees	1N	(5)	4W	I	-	X
MANUFACTURING							
48	Preliminary Project Schedule		(5)	4W	I	-	
49	Fabrication Degree		(5)	4W	I	(5)	X
RECORDS, REPORTS & CERTIFICATES							
50	Material Conformity Certificate		(5)	4W	I	(5)	X
51	Testing Authority Approval Certificate (if any)		(5)	4W	I	(5)	X
52	Hazardous Area Certificates.		(5)	4W	I	(5)	X
53	Ingress Protection Certificate	1N	(5)	4W	I	(5)	X
54	Conformity Certificates (sub-vendor/equipment)		(5)	4W	I	(5)	X
55	Material Certificates Identification Diagram. (cross-reference material location ; certificates for critical components)		(5)	4W	I	(5)	X

 <b>NISOC</b>	<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>								
	<p>PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD</p>								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری W007S	صادر کننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک MR	سریال 0005	نسخه D01	شماره صفحه : 16 از 20

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				FINAL DOCUMENT (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
56	Welding Procedure Qualification Record. (if any)		(5)	4W	A	(5)	X
57	Welder Qualification Records. (if any)		(5)	4W	I	(5)	X
58	NDT Operator Qualifications		(5)	4W	I	(5)	X
59	Detailed NDT Reports		(5)	4W	A	(5)	X
60	Weld/ NDT Identification Diagram. (Cross-reference Weld Locations, WPS, welders, NDT, <del>Welding Inspection Reports</del> ). (if any)		(5)	4W	A	(5)	X
61	Dimensional Control Reports		(5)	4W	A	(5)	X
62	Hardness Test Reports		(5)	4W	A	(5)	X
63	PWHT Charts & Reports, Including Calibration Records of Recorders (for each heat treatment)		(5)	4W	A	(5)	X
64	Pressure Test Reports / Certificates		(5)	4W	A	(5)	X
65	FAT Test Report / Certificates		(5)	4W	A	(5)	X
66	SAT Test Report / Certificates		(5)	4W	A	(5)	X
67	Performance Test Report / Certificates		(5)	4W	A	(5)	X
68	Material Test Certificates		(5)	4W	A	(5)	X
69	Calibration Curves of Control Equipment		(5)	4W	I	(5)	X
70	Calibration Test Certificates		(5)	4W	I	(5)	X
71	Surface Preparation & Coating Reports		(5)	4W	A	(5)	X
72	Hydrostatic / Pneumatic Testing Certificates		(5)	4W	I	(5)	X
73	Welding Consumable Certificate(if any)		(5)	4W	I	(5)	X
74	Test & Inspection Reports		(5)	4W	A	(5)	X
75	Rust Prevention Report		(5)	4W	A	(5)	X
76	Non-Conformities Report		(5)	4W	A	(5)	X
77	Letter of Conformity	1N	(5)	4W	A	(5)	X
78	Welding Inspection Reports		(5)	4W	A	(5)	X



 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>								
شماره پیمان:  053 - 073 - 9184	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD							شماره صفحه : 17 از 20	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	W007S	PEDCO	110	IN	MR	0005	D01	

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				FINAL DOCUMENT (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	
79	VT Inspection Report		(5)	4W	A	(5)	X
INSTALLATION							
80	Sub-Assembly Documentation		(5)	4W	A	(5)	
81	Sub-Assembly Drawings		(5)	4W	A	(5)	
82	Erection/Installation Manual (if required)		(5)	4W	A	(5)	X
83	Name Plate Documents	1N	(5)	4W	A	(5)	X
84	Handling, Transportation & Storage Instructions	4N	(5)	4W	A	(5)	X
85	Unpacking & Inspection Instructions		(5)	4W	A	(5)	X
86	Preliminary Packing List		(5)	4W	A	(5)	
87	Packing List		(5)	4W	A	(5)	X
88	Bill of material(BOM) of panel mounted/ loose items	1N	(5)	4W	A	(5)	X
OPERATION & MAINTENANCE							
89	Operating Instructions		(5)	4W	A	(5)	X
90	Maintenance Instructions		(5)	4W	A	(5)	X
91	Commissioning & Start-up Manual		(5)	4W	A	(5)	X
92	List of Spare Parts Commissioning & Start-up	1N	(5)	4W	A	(5)	X
93	List of Spare Parts 2 Years Operation	1N	(5)	4W	A	(5)	X
94	List of Special Tools	1N	(5)	4W	A	(5)	X
95	Lube Oil Schedule		(5)	4W	A	(5)	
96	Software Manual (incl. Troubleshooting)		(5)	4W	A	(5)	
97	Consumables List		(5)	4W	A	(5)	
98	Function Test Procedure		(5)	4W	A	(5)	X
OTHERS							
99	All others documents (if required) will be listed in the order						

 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>																	
شماره پیمان:	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD	شماره صفحه : 18 از 20																
053 - 073 - 9184	<table><tr><td>پروژه</td><td>بسته کاری</td><td>صادر کننده</td><td>تسهیلات</td><td>رشته</td><td>نوع مدرک</td><td>سریال</td><td>نسخه</td></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0005</td><td>D01</td></tr></table>		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	W007S	PEDCO	110	IN	MR	0005	D01
	پروژه		بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه									
BK	W007S	PEDCO	110	IN	MR	0005	D01											

NO.	DESCRIPTION	WITH BID	AFTER ORDERING				FINAL DOCUMENT (4)
		Q./TYPE (1)	Q./TYPE (1)	DELIVERY DATE (2)	PURPOSE (3)	FINAL ISSUE	

**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 DATA BOOK

(5) "6 C+E" COPY OF DOCUMENT.

(6) MECHANICAL CATALOGUE INCLUDING FINAL DRAWINGS/DOCUMENTS, UNPRICED PURCHASE ORDER & SUB-PURCHASE ORDER, MAINTENANCE DOSSIER ETC.

(7) 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

(8) 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.

(9) LIST OF DOCUMENTS WILL BE FINALIZED IN VPIS.

(10) VENDOR SHALL OFFER ALL MATERIAL/EQUIPMENT ONLY FROM THE LATEST APPROVED VENDOR LIST OF NIOC REFERRED TO NIOC WEBSITE."

 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>																	
شماره پیمان:	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD	شماره صفحه : 19 از 20																
053 - 073 - 9184	<table><tr><td>پروژه</td><td>بسته کاری</td><td>صادر کننده</td><td>تسهیلات</td><td>رشته</td><td>نوع مدرک</td><td>سریال</td><td>نسخه</td></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0005</td><td>D01</td></tr></table>		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	W007S	PEDCO	110	IN	MR	0005	D01
	پروژه		بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه									
BK	W007S	PEDCO	110	IN	MR	0005	D01											

### **ATTACHMENT 3**

#### **12.3 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</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>																	
شماره پیمان:	PMR FOR CONTROL VALVE - EXTENSION OF BINAK B/C MANIFOLD	شماره صفحه : 20 از 20																
053 - 073 - 9184	<table><tr><td>پروژه</td><td>بسته کاری</td><td>صادر کننده</td><td>تسهیلات</td><td>رشته</td><td>نوع مدرک</td><td>سریال</td><td>نسخه</td></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0005</td><td>D01</td></tr></table>		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	W007S	PEDCO	110	IN	MR	0005	D01
	پروژه		بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه									
BK	W007S	PEDCO	110	IN	MR	0005	D01											

#### **ATTACHMENT 4**

#### **12.4 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

DELETED

