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| <br>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 ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                                           | شماره صفحه: 1 از 19                                                                 |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
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| پروژه                                                                                      | بسته کاری                                                                                                                                                                                                                                                       | صادر کننده                                                                          | تسهیلات   | رشته       | نوع مدرک | سریال | نسخه     |       |      |    |       |       |     |    |    |      |     |  |
| BK                                                                                         | W007S                                                                                                                                                                                                                                                           | PEDCO                                                                               | 110       | IN         | MR       | 0004  | D02      |       |      |    |       |       |     |    |    |      |     |  |

## طرح نگهداشت و افزایش تولید 27 مخزن

### PMR FOR ON/OFF & SHUTDOWN VALVES – EXTENSION OF BINAK B/C MANIFOLD

نگهداشت و افزایش تولید میدان نفتی بینک

| D02  | SEP. 2022 | IFI                     | P.Hajisadeghi | M.Fakharian | M.Mehrshad   |                 |
|------|-----------|-------------------------|---------------|-------------|--------------|-----------------|
| D01  | APR. 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: 3

CLIENT Doc. Number: F0Z-708109

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>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>                                                                                                                          | <br> |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                      |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|------------|-----------|-------|--|--|------|-------|----------|------|---------|------------|-----------|-------|-----|------|----|----|-----|-------|-------|----|----------------------|
| شماره پیمان:<br>053 – 073 – 9184                                                  | <table><tr><th colspan="8">PMR FOR ON/OFF &amp; SHUTDOWN VALVES - 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>0004</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table> | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                                                                                                         |      |         |            |           |       |  |  | نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه | D02 | 0004 | MR | IN | 110 | PEDCO | W007S | BK | شماره صفحه : 2 از 19 |
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| D02                                                                               | 0004                                                                                                                                                                                                                                                                                                                                                                | MR                                                                                                                                                                         | IN   | 110     | PEDCO      | W007S     | BK    |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                      |

### REVISION RECORD SHEET

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| شماره پیمان:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 3 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                      |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                      |

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| شماره پیمان:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 4 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                      |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                      |

## 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:

PURCHASER:



National Iranian South Oilfields Company (NISOC)

Means the "Company" where this document is a part of direct purchaser order by the "Company", and the "Contractor" where this document is a part of contract document.

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.

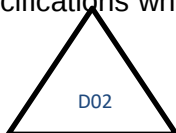
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|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تاسیسات سرچاهی، خطوط جریانی،</p> <p>تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه</p> <p>چندراهه کلاستر بینک</p>                      |  |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
| شماره پیمان:                                                                      | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                                                                                                                                                                                              | شماره صفحه : 5 از 19                                                                |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
| 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>0004</td><td>D02</td></tr></table> | پروژه                                                                               | بسته کاری | صادر کننده | تسهیلات  | رشته  | نوع مدرک | سریال | نسخه | BK | W007S | PEDCO | 110 | IN | MR | 0004 | D02 |  |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                       | صادر کننده                                                                          | تسهیلات   | رشته       | نوع مدرک | سریال | نسخه     |       |      |    |       |       |     |    |    |      |     |  |
| BK                                                                                | W007S                                                                                                                                                                                                                                                           | PEDCO                                                                               | 110       | IN         | MR       | 0004  | D02      |       |      |    |       |       |     |    |    |      |     |  |

**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.

## 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 On/Off & Shutdown 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   | ESDV-1701A | On/Off & Shutdown Valves , Full Bore Ball Valve/Trunnion Mounted , 4"/API 3000 | 1          |
| 2   | ESDV-1701B | On/Off & Shutdown Valves , Full Bore Ball Valve/Trunnion Mounted , 4"/API 3000 | 1          |
| 3   | ESDV-1701C | On/Off & Shutdown Valves , Full Bore Ball Valve/Trunnion Mounted , 4"/API 3000 | 1          |
| 4   | ESDV-1701D | On/Off & Shutdown Valves , Full Bore Ball Valve/Trunnion Mounted , 4"/API 3000 | 1          |
| 5   | ESDV-1701E | On/Off & Shutdown Valves , Full Bore Ball Valve/Trunnion Mounted , 4"/API 3000 | 1          |
| 6   | ESDV-1701F | On/Off & Shutdown Valves , Full Bore Ball Valve/Trunnion Mounted , 4"/API 3000 | 1          |

**\*\* Actuator /limit switches of solenoid valves and all required accessories shall be provided by vendor as per datasheet.**

## 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.

|                                                                                   |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                      |
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|  | <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:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 6 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                      |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                      |

- 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.

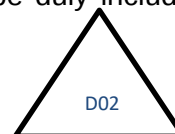
The proposed deviations/comments list shall include as minimum:

- 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 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 on/off & shutdown 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. On/Off & Shutdown Valves, Main feature are as below:

- On/Off & Shutdown Valves, Full Bore Ball Valve / Trunnion Mounted
- Actuator
- Limit Switch
- Solenoid valves
- Air set

|  | <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>شماره پیمان:</p> <p>053 – 073 – 9184</p>                                       | <table><tr><th colspan="8">PMR FOR ON/OFF &amp; SHUTDOWN VALVES - 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>0004</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table> | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                  |      |         |            |           |       |  |  | نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه | D02 | 0004 | MR | IN | 110 | PEDCO | W007S | BK | <p>شماره صفحه : 7 از 19</p> |
| PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                             |
| نسخه                                                                              | سریال                                                                                                                                                                                                                                                                                                                                                               | نوع مدرک                                                                            | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                             |
| D02                                                                               | 0004                                                                                                                                                                                                                                                                                                                                                                | MR                                                                                  | IN   | 110     | PEDCO      | W007S     | BK    |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                             |

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

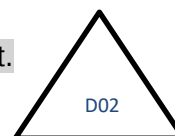
#### 5.1.2 SPARE PARTS



- The Vendor shall provide certain quantities of consumable for the installation, pre-commissioning, commissioning, start-up and up to the end of the guarantee period.
- The quantities shall be estimated by Vendor and shall be based upon the Vendor's experience. The following two periods shall be taken into account:
  - Pre-commissioning and commissioning period where the consumption of consumable is greater
  - Normal use of the System
- The VENDOR shall provide lists of recommended spare parts, which shall include the original part numbers with prices for commissioning, start-up and two years operation. All spare parts shall be identified individually.
- Spare parts for commissioning and start-up; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&C-QC-SP-1).

|  | <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:<br>053 – 073 – 9184                                                  | <table><tr><th colspan="8">PMR FOR ON/OFF &amp; SHUTDOWN VALVES - 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>0004</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table> | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                  |      |         |            |           |       |  |  | نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه | D02 | 0004 | MR | IN | 110 | PEDCO | W007S | BK | شماره صفحه : 8 از 19 |
| PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                      |
| نسخه                                                                              | سریال                                                                                                                                                                                                                                                                                                                                                               | نوع مدرک                                                                            | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                      |
| D02                                                                               | 0004                                                                                                                                                                                                                                                                                                                                                                | MR                                                                                  | IN   | 110     | PEDCO      | W007S     | BK    |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                      |

- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&C-QC-SP-1).
- The VENDOR shall be able to provide spares back up and support for the plant life of at least 20 years.
- SPIR form shall be approved by CLIENT prior to procurement.



### 5.1.3 OTHER ITEMS

No other item is required

## 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 quality control plan issued by the vendor and approved by the CLIENT/EPC CONTRACTOR before the award of the order. The QC plan shall at least be according to the Commodity Procurement and Manufacturing Inspection Instruction (Doc.s No.s E&C-QC-IN-SP-1, ICE-EID-MI-SP01) and data sheets.

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 and Quality Assurance Requirements shall be considered in vendor responsibility as per project specification.

|                                                                                   |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                      |
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|  | <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:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 9 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                      |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                      |

## 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”**

## 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-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

|                                                                                   |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                       |
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|  | <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:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 10 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                       |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                       |

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.

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

|                                                                                   |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                       |
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|  | <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:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 11 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                       |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                       |

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 CLIENT's approval.

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



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| شماره پیمان:<br><br>053 – 073 – 9184                                              | <table><tr><th colspan="8">PMR FOR ON/OFF &amp; SHUTDOWN VALVES - 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>0004</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table> | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                  |      |         |            |           |       |  |  | نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه | D02 | 0004 | MR | IN | 110 | PEDCO | W007S | BK | شماره صفحه : 12 از 19 |
| PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                       |
| نسخه                                                                              | سریال                                                                                                                                                                                                                                                                                                                                                               | نوع مدرک                                                                            | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                       |
| D02                                                                               | 0004                                                                                                                                                                                                                                                                                                                                                                | MR                                                                                  | IN   | 110     | PEDCO      | W007S     | BK    |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                       |

## ATTACHMENT 1

### LIST OF REFERENCE / APPLICABLE DOCUMENTS



| 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                                                    | D07  |
| 3.                | BK-W007S-PEDCO-110-PR-PI-0001 | P&ID - Extension of Binak B/C Manifold                                     | D02  |
| <b>Piping</b>     |                               |                                                                            |      |
| 4.                | BK-SSGRL-PEDCO-110-PI-SP-0001 | Piping Material Specification                                              | D02  |
| 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                                          | D04  |
| 7.                | BK-SSGRL-PEDCO-110-IN-DC-0002 | Instrument & Control System Design Criteria                                | D01  |
| 8.                | BK-W007S-PEDCO-110-IN-DT-0005 | Data Sheets For On/Off & Shutdown Valves - Extension of Binak B/C Manifold | D02  |
| 9.                | BK-GNRAL-PEDCO-000-IN-SP-0006 | Specification For On-off /Shut Down Valves (ESDV/MOV)                      | D03  |
| 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               | دستور العمل بازرسی، خرید و ساخت کالا                                       | D01  |
| 12.               | ICE-EID-MI-SP02               | دستور العمل انتخاب سطح بازرسی کالا و تجهیزات                               | D01  |
| 13.               | E&D-QC-SP-1                   | دستور العمل 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  |

**\*\*NOTE:** List of Documents will be Finalized in VPIS.

|                                                                                            |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|---------|------|----------|-------|------|-----------------------|
| <br>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:<br><br>053 – 073 – 9184                                                       | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 13 از 19 |
|                                                                                            | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                       |
|                                                                                            | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                       |

## ATTACHMENT 2

### VENDOR DOCUMENTS MIN. REQUIREMENT

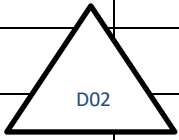
| NO.         | DESCRIPTION                                                                                                       | WITH BID    | AFTER ORDERING |                   |             |             | AT THE FINAL INSPECTION (4) |
|-------------|-------------------------------------------------------------------------------------------------------------------|-------------|----------------|-------------------|-------------|-------------|-----------------------------|
|             |                                                                                                                   | Q./TYPE (1) | Q./TYPE (1)    | DELIVERY DATE (2) | PURPOSE (3) | FINAL ISSUE |                             |
| MANAGEMENT  |                                                                                                                   |             |                |                   |             |             |                             |
| 1           | Vendor Document Index and Schedule                                                                                | 4N          | (5)            | 2W                | A           | (5)         | X                           |
| 2           | Organization Brief                                                                                                | 4N          | (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                                                                                        | 4N          | (5)            | 2W                | I           | (5)         | X                           |
| 6           | Reference List                                                                                                    | 4N          | (5)            | 2W                | I           | (5)         |                             |
| 7           | Vendor Catalogue                                                                                                  | 4N          | (5)            | 2W                | I           | (5)         | X                           |
| HSE         |                                                                                                                   |             |                |                   |             |             |                             |
| 8           | HSE Procedure                                                                                                     |             | (5)            | 4W                | A           | (5)         | X                           |
| ENGINEERING |                                                                                                                   |             |                |                   |             |             |                             |
| 9           | Specifications / Data Sheets (Completed)                                                                          |             | (5)            | 4W                | A           | (5)         | X                           |
| 10          | Dimensional Outlines                                                                                              | 4N          | (5)            | 4W                | A           | (5)         | X                           |
| 11          | Mounting Details                                                                                                  |             | (5)            | 4W                | A           | (5)         | X                           |
| 12          | Schematic Wiring and Tubing Diagram                                                                               | 4N          | (5)            | 4W                | A           | (5)         | X                           |
| 13          | Electric Power & Utility Consumption List                                                                         |             | (5)            | 4W                | A           | (5)         | X                           |
| 14          | General Arrangement                                                                                               | 4N          | (5)            | 4W                | A           | (5)         | X                           |
| 15          | Detailed Dimensions of Cut- Outs                                                                                  |             | (5)            | 4W                | A           | (5)         | X                           |
| 16          | Parts / Material List                                                                                             | 4N          | (5)            | 4W                | A           | (5)         | X                           |

|  | <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>شماره پیمان:</p> <p>053 – 073 – 9184</p>                                       | <table><tr><th colspan="8">PMR FOR ON/OFF &amp; SHUTDOWN VALVES - 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>0004</td><td>MR</td><td>IN</td><td>110</td><td>PEDCO</td><td>W007S</td><td>BK</td></tr></table> | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                  |      |         |            |           |       |  |  | نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه | D02 | 0004 | MR | IN | 110 | PEDCO | W007S | BK | <p>شماره صفحه : 14 از 19</p> |
| PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                              |
| نسخه                                                                              | سریال                                                                                                                                                                                                                                                                                                                                                               | نوع مدرک                                                                            | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                              |
| D02                                                                               | 0004                                                                                                                                                                                                                                                                                                                                                                | MR                                                                                  | IN   | 110     | PEDCO      | W007S     | BK    |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |       |    |                              |

| NO.                              | DESCRIPTION                                                                                           | WITH BID    | AFTER ORDERING |                   |             |             | AT THE FINAL INSPECTION (4) |
|----------------------------------|-------------------------------------------------------------------------------------------------------|-------------|----------------|-------------------|-------------|-------------|-----------------------------|
|                                  |                                                                                                       | Q./TYPE (1) | Q./TYPE (1)    | DELIVERY DATE (2) | PURPOSE (3) | FINAL ISSUE |                             |
| 17                               | Technical Description and Relevant Catalogues                                                         | 4N          | (5)            | 4W                | A           | (5)         | X                           |
| 18                               | List of Deviations from the Specification and Data Sheets                                             | 4N          | (5)            | 4W                | A           | (5)         |                             |
| PROCUREMENT                      |                                                                                                       |             |                |                   |             |             |                             |
| 19                               | List of Sub-Vendors ( table giving: part of equipment, tag no., sub-vendor reference)(5.1.3) (if any) | 4N          | (5)            | 4W                | A           | (5)         |                             |
| 20                               | Unpriced copy of sub-orders                                                                           | 4N          | (5)            | 4W                | I           | -           |                             |
| 21                               | Packing Spec. / Shipping Schedule                                                                     | 4N          | (5)            | 4W                | I           | -           |                             |
| 22                               | Weight List/ Shipping List                                                                            | 4N          | (5)            | 4W                | I           | (5)         |                             |
| 23                               | Mechanical & Performance Guarantees                                                                   | 4N          | (5)            | 4W                | I           | -           |                             |
| QUALITY , MANUFACTURING, TESTING |                                                                                                       |             |                |                   |             |             |                             |
| 24                               | Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)     |             | (5)            | 3W                | A           | (5)         |                             |
| 25                               | Preliminary Project Schedule                                                                          |             | (5)            | 4W                | I           | -           |                             |
| 26                               | Weld and NDT Map (if any)                                                                             |             | (5)            | 4W                | I           | (5)         | X                           |
| 27                               | Surface Preparation and Painting Procedures                                                           |             | (5)            | 4W                | I           | (5)         | X                           |
| 28                               | Welder Qualification Procedure (if any)                                                               |             | (5)            | 4W                | I           | (5)         | X                           |
| 29                               | Fabrication Degree                                                                                    |             | (5)            | 4W                | I           | (5)         | X                           |
| 30                               | Hydrostatic / Pneumatic Test Procedure                                                                |             | (5)            | 4W                | I           | (5)         | X                           |
| 31                               | Quality Control Plan                                                                                  |             | (5)            | 4W                | I           | (5)         | X                           |
| 32                               | Manufacturing, Test & Inspection Procedures                                                           | 4N          | (5)            | 4W                | A           | (5)         | X                           |
| 33                               | Performance & Functional Test Procedure                                                               |             | (5)            | 4W                | A           | (5)         | X                           |
| 34                               | Non-Destructive-Testing/Examination Procedures                                                        |             | (5)            | 4W                | A           | (5)         | X                           |
| 35                               | Factory Acceptance Test (FAT) Procedure                                                               |             | (5)            | 4W                | A           | (5)         | X                           |
| 36                               | Site Acceptance Test (SAT) Procedure                                                                  |             | (5)            | 4W                | A           | (5)         | X                           |

D02

|                                                                                            |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                       |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|---------|------|----------|-------|------|-----------------------|
| <br>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:<br><br>053 – 073 – 9184                                                       | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 15 از 19 |
|                                                                                            | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                       |
|                                                                                            | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                       |

| NO.                             | DESCRIPTION                                                                                                              | WITH<br>BID                                                                         | AFTER ORDERING |                      |                |                | AT THE<br>FINAL<br>INSPECTION<br>(4) |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|----------------------|----------------|----------------|--------------------------------------|
|                                 |                                                                                                                          | Q./TYPE<br>(1)                                                                      | Q./TYPE<br>(1) | DELIVERY<br>DATE (2) | PURPOSE<br>(3) | FINAL<br>ISSUE |                                      |
| RECORDS, REPORTS & CERTIFICATES |                                                                                                                          |                                                                                     |                |                      |                |                |                                      |
| 37                              | Material Conformity Certificate                                                                                          |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 38                              | Testing Authority Approval Certificate (if any)                                                                          |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 39                              | Hazardous Area Certificates                                                                                              |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 40                              | Ingress Protection Certificate                                                                                           |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 41                              | Conformity Certificates (sub-vendor / equipment)                                                                         |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 42                              | Material Certificates Identification Diagram. (cross-reference material location ; certificates for critical components) |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 43                              | Welding Procedure Qualification Record. (if any)                                                                         |                                                                                     | (5)            | 4W                   | I              | (5)            |                                      |
| 44                              | Welder Qualification Records.                                                                                            |                                                                                     | (5)            | 4W                   | I              | (5)            |                                      |
| 45                              | NDT Operator Qualifications                                                                                              |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 46                              | Detailed NDT Reports                                                                                                     |                                                                                     | (5)            | 4W                   | A              | (5)            |                                      |
| 47                              | Weld/ NDT Identification Diagram. (Cross-reference weld locations, WPS, welders, NDT reports).                           |                                                                                     | (5)            | 4W                   | A              | (5)            | X                                    |
| 48                              | Hardness Test Reports                                                                                                    |                                                                                     | (5)            | 4W                   | A              | (5)            | X                                    |
| 49                              | PWHT Charts & Reports, including calibration records of recorders (for each heat treatment)                              |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 50                              | Pressure Test Reports / Certificates                                                                                     |                                                                                     | (5)            | 4W                   | A              | (5)            | X                                    |
| 51                              | FAT Test Report / Certificates                                                                                           |  | (5)            | 4W                   | A              | (5)            | X                                    |
| 52                              | SAT Test Report / Certificates                                                                                           |                                                                                     | (5)            | 4W                   | A              | (5)            | X                                    |
| 53                              | Performance Test Report / Certificates                                                                                   |                                                                                     | (5)            | 4W                   | A              | (5)            | X                                    |
| 54                              | Material Test Certificates                                                                                               |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 55                              | Calibration Curves of Control Equipment                                                                                  |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 56                              | Calibration Test Certificates                                                                                            |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |
| 57                              | Surface Preparation & Coating Reports                                                                                    |                                                                                     | (5)            | 4W                   | A              | (5)            |                                      |
| 58                              | Hydrostatic / Pneumatic Testing Certificates                                                                             |                                                                                     | (5)            | 4W                   | I              | (5)            | X                                    |

|                                                                                            |                                                                                                                                                                                                                                                                 |                                                                                                              |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|------------|----------|-------|----------|-------|------|----|-------|-------|-----|----|----|------|-----|--|
| <br>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>                      | <br>شماره صفحه : 16 از 19 |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
| شماره پیمان:                                                                               | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                                                                                                                                                                                              |                                                                                                              |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
| 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>0004</td><td>D02</td></tr></table> | پروژه                                                                                                        | بسته کاری | صادر کننده | تسهیلات  | رشته  | نوع مدرک | سریال | نسخه | BK | W007S | PEDCO | 110 | IN | MR | 0004 | D02 |  |
| پروژه                                                                                      | بسته کاری                                                                                                                                                                                                                                                       | صادر کننده                                                                                                   | تسهیلات   | رشته       | نوع مدرک | سریال | نسخه     |       |      |    |       |       |     |    |    |      |     |  |
| BK                                                                                         | W007S                                                                                                                                                                                                                                                           | PEDCO                                                                                                        | 110       | IN         | MR       | 0004  | 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 |                             |
| 59                      | Welding Consumable Certificate (if any)         |             | (5)            | 4W                | I           | (5)         | X                           |
| 60                      | Test & Inspection Reports                       |             | (5)            | 4W                | A           | (5)         |                             |
| 61                      | Rust Prevention Report                          |             | (5)            | 4W                | A           | (5)         |                             |
| 62                      | Non-Conformities Report                         |             | (5)            | 4W                | A           | (5)         |                             |
| 63                      | Letter of Conformity                            |             | (5)            | 4W                | A           | (5)         |                             |
| 64                      | Welding Inspection Reports                      |             | (5)            | 4W                | A           | (5)         | X                           |
| 65                      | VT Inspection Report                            |             | (5)            | 4W                | A           | (5)         | X                           |
| 66                      | Monthly Progress Report                         |             | (5)            | 4W                | A           | (5)         |                             |
| INSTALLATION            |                                                 |             |                |                   |             |             |                             |
| 67                      | Sub-Assembly Documentation                      |             | (5)            | 4W                | A           | (5)         |                             |
| 68                      | Sub-Assembly Drawings                           |             | (5)            | 4W                | A           | (5)         |                             |
| 69                      | Erection/Installation Manual (if required)      |             | (5)            | 4W                | A           | (5)         |                             |
| 70                      | Name Plate Documents                            | 4N          | (5)            | 4W                | A           | (5)         |                             |
| 71                      | Handling, Transportation & Storage Instructions | 4N          | (5)            | 4W                | A           | (5)         |                             |
| 72                      | Unpacking & Inspection Instructions             |             | (5)            | 4W                | A           | (5)         |                             |
| 73                      | Preliminary Packing List                        |             | (5)            | 4W                | A           | (5)         |                             |
| 74                      | Packing List                                    |             | (5)            | 4W                | A           | (5)         |                             |
| OPERATION & MAINTENANCE |                                                 |             |                |                   |             |             |                             |
| 75                      | Operating Instructions                          |             | (5)            | 4W                | A           | (5)         |                             |
| 76                      | Maintenance Instructions                        |             | (5)            | 4W                | A           | (5)         |                             |
| 77                      | Commissioning & Start-up Manual                 |             | (5)            | 4W                | A           | (5)         |                             |
| 78                      | List of Spare Parts Commissioning & Start-up    | 4N          | (5)            | 4W                | A           | (5)         |                             |
| 79                      | List of Spare Parts 2 Years Operation           | 4N          | (5)            | 4W                | A           | (5)         |                             |
| 80                      | List of Special Tools                           | 4N          | (5)            | 4W                | A           | (5)         |                             |
| 81                      | Lube Oil Schedule                               |             | (5)            | 4W                | A           | (5)         |                             |
| 82                      | Software Manual (incl. Troubleshooting)         |             | (5)            | 4W                | A           | (5)         |                             |

|                                                                                            |                                                                                                                                                                                                                                                                 |                                                                                     |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------------|----------|-------|----------|-------|------|----|-------|-------|-----|----|----|------|-----|--|
| <br>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 ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                                           | شماره صفحه : 17 از 19                                                               |           |            |          |       |          |       |      |    |       |       |     |    |    |      |     |  |
| 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>0004</td><td>D02</td></tr></table> | پروژه                                                                               | بسته کاری | صادر کننده | تسهیلات  | رشته  | نوع مدرک | سریال | نسخه | BK | W007S | PEDCO | 110 | IN | MR | 0004 | D02 |  |
| پروژه                                                                                      | بسته کاری                                                                                                                                                                                                                                                       | صادر کننده                                                                          | تسهیلات   | رشته       | نوع مدرک | سریال | نسخه     |       |      |    |       |       |     |    |    |      |     |  |
| BK                                                                                         | W007S                                                                                                                                                                                                                                                           | PEDCO                                                                               | 110       | IN         | MR       | 0004  | 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 |                             |
| 83     | Consumables List                                               |             | (5)            | 4W                | A           | (5)         |                             |
| 84     | Function Test Procedure                                        |             | (5)            | 4W                | A           | (5)         | X                           |
| OTHERS |                                                                |             |                |                   |             |             |                             |
| 85     | Vendor Final Book                                              |             | (5)            | 4W                | A           | (5)         | X                           |
| 86     | 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) "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.

|                                                                                   |                                                                                                                                                                                                                                            |                                                                                     |            |         |      |          |       |      |                       |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|---------|------|----------|-------|------|-----------------------|
|  | <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:<br><br>053 – 073 – 9184                                              | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF<br>BINAK B/C MANIFOLD                                                                                                                                                                      |                                                                                     |            |         |      |          |       |      | شماره صفحه : 18 از 19 |
|                                                                                   | پروژه                                                                                                                                                                                                                                      | بسته کاری                                                                           | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |                       |
|                                                                                   | BK                                                                                                                                                                                                                                         | W007S                                                                               | PEDCO      | 110     | IN   | MR       | 0004  | D02  |                       |

### ATTACHMENT 3

#### DEVIATIONS / EXCEPTIONS TO JOB SPECIFICATION

Requisition No.:

Description:

Equipment No.:

| Item No. | Description of proposed exception | Recommended revision to job specification | Reason for proposed exception | Effect on base proposal if CONTRACTOR rejects exception |
|----------|-----------------------------------|-------------------------------------------|-------------------------------|---------------------------------------------------------|
|          |                                   |                                           |                               |                                                         |

|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک</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:<br>053 – 073 – 9184                                                  | <table><tr><th colspan="8">PMR FOR ON/OFF &amp; SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>W007S</td><td>PEDCO</td><td>110</td><td>IN</td><td>MR</td><td>0004</td><td>D02</td></tr></table> | PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                  |         |      |          |       |      |  |  | پروژه | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه | BK | W007S | PEDCO | 110 | IN | MR | 0004 | D02 | شماره صفحه : 19 از 19 |
| PMR FOR ON/OFF & SHUTDOWN VALVES - EXTENSION OF BINAK B/C MANIFOLD                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |       |       |     |    |    |      |     |                       |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                                                                                                                           | صادر کننده                                                                          | تسهیلات | رشته | نوع مدرک | سریال | نسخه |  |  |       |           |            |         |      |          |       |      |    |       |       |     |    |    |      |     |                       |
| BK                                                                                | W007S                                                                                                                                                                                                                                                                                                                                                               | PEDCO                                                                               | 110     | IN   | MR       | 0004  | D02  |  |  |       |           |            |         |      |          |       |      |    |       |       |     |    |    |      |     |                       |

#### 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 |
|----------|---------------------------------------|-----------------------------------|-------------------------------------|---------------------------------|
|          |                                       |                                   |                                     |                                 |