





|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>  |  |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |     |    |                             |
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| <p>شماره پیمان:<br/>053 – 073 – 9184</p>  | <table border="1"> <tr> <th colspan="8">PMR FOR PIPES</th> </tr> <tr> <td>نسخه</td> <td>سریال</td> <td>نوع مدرک</td> <td>رشته</td> <td>تسهیلات</td> <td>صادر کننده</td> <td>بسته کاری</td> <td>پروژه</td> </tr> <tr> <td>D00</td> <td>0001</td> <td>MR</td> <td>PI</td> <td>120</td> <td>PEDCO</td> <td>GCS</td> <td>BK</td> </tr> </table> | PMR FOR PIPES   |      |         |            |           |       |  |  | نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه | D00 | 0001 | MR | PI | 120 | PEDCO | GCS | BK | <p>شماره صفحه : 1 از 19</p> |
| PMR FOR PIPES   |   |   |      |         |            |           |       |  |  |      |       |          |      |         |            |           |       |     |      |    |    |     |       |     |    |                             |
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## طرح نگهداشت و افزایش تولید 27 مخزن

### PMR FOR PIPES

#### نگهداشت و افزایش تولید میدان نفتی بینک



|  |           |                                |              |             |              |                 |
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| D00  | NOV. 2022 | IFI                            | M.Noori      | M.Fakharian | M.Mehrshad   |                 |
| Rev.   | Date      | Purpose of Issue/Status        | Prepared by: | Checked by: | Approved by: | CLIENT Approval |
| Class:3  |           | CLIENT Doc. Number: F0Z-709243 |              |             |              |                 |
| <b>Status:</b><br>IDC: Inter-Discipline Check<br>IFC: Issued For Comment<br>IFA: Issued For Approval<br>AFD: Approved For Design<br>AFC: Approved For Construction<br>AFP: Approved For Purchase<br>AFQ: Approved For Quotation<br>IFI: Issued For Information<br>AB-R: As-Built for CLIENT Review<br>AB-A: As-Built –Approved |           |                                |              |             |              |                 |

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|  <p>NISOC</p> | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>   |  |       |          |            |           |            |           |       |     |      |    |    |     |       |     |    |                             |
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### REVISION RECORD SHEET



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## 1.0 INTRODUCTION

Binak oilfield in Bushehr province is a part of the southern oilfields of Iran, is located 20 km northwest of Genaveh city.

With the aim of increasing production of oil from Binak oilfield, an EPC/EPD Project has been defined by NIOC/NISOC and awarded to Petro Iran Development Company (PEDCO). Also PEDCO (as General Contractor) has assigned the EPC-packages of the Project to "Hirgan Energy - Design and Inspection" JV.

As a part of the Project, a New Gas Compressor Station (adjacent to existing Binak GCS) shall be constructed to gather of 15 MMSCFD (approx.) associated gases and compress & transfer them to Siahmakan GIS.



### GENERAL DEFINITION

The following terms shall be used in this document.

|                              |  |
|------------------------------|--|
| CLIENT:                      | National Iranian South Oilfields Company (NISOC)   |
| PROJECT:                     | Binak Oilfield Development – Surface Facilities; New Gas Compressor Station  |
| EPD/EPC CONTRACTOR (GC):     | Petro Iran Development Company (PEDCO)   |
| EPC CONTRACTOR:              | Joint Venture of : Hirgan Energy – Design & Inspection(D&I) Companies  |
| VENDOR:                      | The firm or person who will fabricate the equipment or material.   |
| EXECUTOR:                    | Executor is the party which carries out all or part of construction and/or commissioning for the project.          |
| THIRD PARTY INSPECTOR (TPI): | The firm appointed by EPD/EPC CONTRACTOR (GC) and approved by CLIENT (in writing) for the inspection of goods..    |
| SHALL:                       | Is used where a provision is mandatory.  |
| SHOULD:                      | Is used where a provision is advisory only.  |
| WILL:                        | Is normally used in connection with the action by CLIENT rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR. |
| MAY:                         | Is used where a provision is completely discretionary.   |

## 2.0 SCOPE

- This document presents the long lead item material requisitions for Contractor's use as appropriate.

|  |  |           |            |         |      |          |       |      |   |
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- This material requisition covers the requirements for the design, manufacturing, testing and supply of Pipes 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:

All items listed in MTO For Pipes Doc NO. "BK-GCS-PEDCO-120-PI-MT-0001"

### 3.0 NORMATIVE REFERENCES

- Specified documents in attachment 1 shall be considered as a part of this material Requisition.
- All codes and standards which have been referenced in above mentioned specs shall be considered.
- In case of any conflict between the contents of this document or any discrepancy between this document and other project documents or reference standards, this issue must be reported to the CLIENT. The final decision in this situation will be made by CLIENT.
- Deviations

Any exceptions/clarifications to codes/standards and specifications listed in attachment 1 must be clearly stated in a separate dedicated section of the proposal in the format submitted in attachment 3.

The proposed deviations/comments list shall include as minimum:

- Reference for the involved specification, chapter and paragraph.
- 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 items listed in MTO For Pipes Doc NO."BK-GCS-PEDCO-120-PI-MT-0001".The scope of supply is detailed at para. 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 safe operation, taking into account process data and installation conditions such as area classification and climatic conditions.

The grade of shop assembly of the equipment/devices/items supplied shall be at maximum extent to facilitate site erection and pre-commissioning activities.

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## 5.0 LIMITS OF SUPPLY

### 5.1 SCOPE OF SUPPLY

#### 5.1.1 MAIN DESCRIPTION

The scope of supply includes items listed in MTO For Pipes Doc NO.” BK-GCS-PEDCO-120-PI-MT-0001”



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 organization and procedures that shall be submitted for approval.
  - Plan for HOLD points in the production process proposed to PURCHASER for witness or approval particular activities.
  - Production schedule indicating main quality manufacturing processes, inspection and tests.
  - Qualification of all personnel performing tests to be reviewed by the inspector
  - Supplier shall also provide the description of the following quality activities:
    - Sub suppliers products quality
    - Quality check and identification of the materials and equipment entering in their manufacturing shop.
- Calibration of test instruments and equipment
- Provide detailed specifications and data sheets

#### 5.1.2 SPARE PARTS

Following items shall be considered (supplied) and included in the bid documentation:

- Spare parts for commissioning and start-up; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (If Applied)
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (If Applied)
- Capital spare parts (as option / if any)

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### 5.1.3 OTHER ITEMS



- No protection, paint or filling shall be applied to the subject materials, before they have been inspected and successfully tested, and approved by purchaser's inspector. After approval and before dispatching, each part of the subject materials shall be thoroughly cleaned and appropriately protected and packed in accordance with the requirements of purchaser / shipper /carriers, and suitably for prolonged storage.
- Any technical information and data (specifications, drawings, etc.), furnished with the requisition, shall be returned to purchaser, after the successful bidder is announced.
- Packing materials cases shall be included in the proposed price, and are property of purchaser.
- In the event of any conflict of information, clarification in writing shall be obtained from the purchaser.
- Each piece or items of piping material shall be covered by DIN standard no. DIN 50049 / BS EN 10204 / ISO 10474, Type 3.1 certificate (or certificates). The vendor shall submit type 3.1 material certificates giving the results of the chemical analysis and of the mechanical tests carried out in accordance with the requirements of the reference codes and standards.
- All straight length of pipe shall be supplied as follows:  
2" and larger in Double Random Length with Bevelled Ends according to ASME B16.25
- Individual length shall be furnished in accordance with requirements of Table 11 API 5L-2012 standard.
- Engineering Standard of "IPS-M-PI-190" shall be referred to latest Rev which is (3)
- In this stage of PMR, ONLY PIPE SIZE of "4" INCHES shall be supplied by vendor.
- Quotations shall clearly specify the length offered for each item description (Single Random or Double Random).
- Carbon steel materials shall be impact tested and heat treated according to project specifications BK-GNRAL-PEDCO-000-PI-SP-0004.
- All Materials specified with NACE shall meet the requirements of Sour Services. Sour services' materials shall meet the requirement of NACE MR0175/ISO 15156 standard. All materials under sour conditions shall be tested and resistant to HIC and SSCC according to circumstances of "Specification For Metallic Pipes Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0004".

### 5.2 EXCLUSIONS

No exclusion is applicable

### 5.3 BATTERY LIMITS

No battery limit is applicable

|   |  |           |            |         |      |          |       |   |      |
|---|--|-----------|------------|---------|------|----------|-------|---|------|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br><br>053 – 073 – 9184  | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 8 از 19  |      |
|   | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|   | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |

## 6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the quality control plan issued by the supplier and approved by the PURCHASER before the award of the order. The QC plan shall at least be according to the PROJECT ITP PROCEDURE and data sheets (if any).

Continuous inspection of manufacturing, at the manufacturer's plant (Level 1), together with the superior supervision and approval of CLIENT's technical inspection, shall be done by TPI.

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

## 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 follows:

|                          |   |
|--------------------------|---|
| CLIENT:                  | National Iranian South Oilfields Company (NISOC)                            |
| PROJECT:                 | Binak Oilfield Development – Surface Facilities; New Gas Compressor Station |
| EPD/EPC CONTRACTOR (GC): | Petro Iran Development Company (PEDCO)                                      |
| EPC CONTRACTOR:          | Joint Venture of : Hirgan Energy – Design & Inspection(D&I) Companies       |

## 8.0 UNIT RESPONSIBILITY

VENDOR shall be responsible for the design, engineering, co-ordination, supply, delivery, testing, final check-out and satisfactory operation of the equipment/devices/items. The engineering coordination also includes responsibility for handing and expediting drawings.

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

|  |  |           |            |         |      |          |       |   |      |
|--|--|-----------|------------|---------|------|----------|-------|---|------|
| <br>NISOC | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br><br>053 – 073 – 9184   | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 9 از 19  |      |
|  | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|  | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |

## 9.0 GUARANTEE AND WARRANTY

All material and Equipment/Devices/Items in VENDOR's scope of work/supply shall be guaranteed by VENDOR.

The guarantee period shall be twenty four (24) months from the date of delivery or twelve (12) months from the date of mechanical completion, whichever occurs later.

VENDOR shall guarantee the performance of supplied items (if any).

VENDOR shall guarantee that the Equipment/Device/Item is suitable for the operating conditions herein specified, and that all materials and components are free from any defects; verifications of all calculations are in VENDOR's responsibility.

VENDOR shall unconditionally guarantee the materials and workmanship of all material and/or services. If, within the guarantee period, any defects occur which are due to faulty material and/or services included in his scope (design, manufacturing, inspection, testing, supply & etc.), VENDOR shall, at his own expense, repair or adjust the condition, or replace the material and/or services to the complete satisfaction of CLIENT's representative. These repairs, replacement or adjustments shall be made only at such time as will be least detrimental to the operation of the CLIENT's business.

VENDOR warrants promptly repairing or replacing the defective parts in the warranty period.

Vendor shall ensure a correct and safe operation of the unit, providing all safety protection Devices.

Vendor shall be responsible for the safe, reliable, continuous functioning of the Equipment/Devices/Items.

VENDOR is fully responsible for the design of package for correct and safe operation based on project requirement during package life time; therefore, VENDOR shall specify any documents/specifications which may be required for design, manufacture and finalizing of Equipment/Devices/Items to avoid any problems during the package operation at site before P.O; otherwise, VENDOR shall be hold responsible for any corresponding deviation from expectations from the Equipment/Devices/Items.



## 10.0 DEVIATION

VENDOR's proposal shall be prepared in strict compliance with the requirements set forth in the relevant specifications of tender documents.



VENDOR shall include in his proposal the statement of compliance with the tender documents should VENDOR wish to submit exception to the requirements of tender documents. They shall be submitted for PURCHASER's approval.

## 11.0 PRICE BREAKDOWN

Breakdown price of following items shall be included in the proposal, as well as total price.

|   |  |           |           |         |      |          |       |   |
|---|--|-----------|-----------|---------|------|----------|-------|---|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |           |         |      |          |       |  |
| شماره پیمان:<br><br>053 – 073 – 9184  | PMR FOR PIPES  |           |           |         |      |          |       | شماره صفحه : 10 از 19   |
|   | پروژه  | بسته کاری | صادرکننده | تسهیلات | رشته | نوع مدرک | سریال |   |
|   | BK   | GCS       | PEDCO     | 120     | PI   | MR       | 0001  |   |
|   |  |           |           |         |      |          | D00   |   |



- 1) Material and Fabrication for each Section Separately
- 2) Pre-commissioning & commissioning spare parts (If Applied)
- 3) 2 years operational spare parts (If Applied)
- 4) Packing & transportation
- 5) Other fee (if any)



|   |  |           |            |         |      |          |       |   |      |
|---|--|-----------|------------|---------|------|----------|-------|---|------|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br><br>053 – 073 – 9184  | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 11 از 19   |      |
|   | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|   | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |

## ATTACHMENT 1

### LIST OF REFERENCE / APPLICABLE DOCUMENTS

| No.    | Document No.                  | Document Title                                       | Rev.   |
|--------|-------------------------------|--|--------|
| Piping |                               |  |        |
| 1      | BK-GCS-PEDCO-120-PI-MT-0001   | MTO For Pipes  | D01    |
| 2      | BK-GNRAL-PEDCO-000-PI-SP-0004 | Specification For Metallic Pipes                     | D02    |
| 3      | BK-GNRAL-PEDCO-000-PI-SP-0006 | Specification For Painting                           | D02    |
| 4      | BK-GNRAL-PEDCO-000-PI-SP-0011 | Specification for Welding of Plant Piping System     | D00    |
| 5      | BK-GNRAL-PEDCO-000-PI-SP-0001 | Specification For Color Coding and Marking           | D00    |
| 6      | BK-GNRAL-PEDCO-000-QC-PR-0022 | Specification For Final Data Book (FDB) Requirements | D00    |
| 7      | ICE-EID-MI-SP01               | دستورالعمل بازرسی خرید و ساخت کالا                   | Rev.01 |
| 8      | ICE-EID-MI-SP02               | دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات          | Rev.01 |



|  |  |           |           |         |      |          |       |      |   |
|--|--|-----------|-----------|---------|------|----------|-------|------|---|
| <br>NISOC | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |           |         |      |          |       |      |  |
| شماره پیمان:<br><br>053 – 073 – 9184   | PMR FOR PIPES  |           |           |         |      |          |       |      | شماره صفحه : 12 از 19   |
|  | پروژه  | بسته کاری | صادرکننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |   |
|  | BK   | GCS       | PEDCO     | 120     | PI   | MR       | 0001  | D00  |   |

|   |  |           |            |         |      |          |       |   |      |
|---|--|-----------|------------|---------|------|----------|-------|---|------|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br>053 - 073 - 9184  | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 13 از 19   |      |
|   | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|   | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |




## ATTACHMENT 2

### VENDOR DOCUMENTS MIN. REQUIREMENT



| ITEM NO.   | DOCUMENT   | WITH BID                  | TIME SCHEDULE             |                      |                           |                         |
|------------|--|---------------------------|---------------------------|----------------------|---------------------------|-------------------------|
|            |  |                           | FOR REVIEW                |                      | FINAL ISSUE               |                         |
|            |  | COPIES<br>NO./TYPE<br>(7) | COPIES<br>NO./TYPE<br>(1) | SOLAR<br>DAYS<br>(2) | COPIES<br>NO./TYPE<br>(1) | CALENDAR<br>DAYS<br>(3) |
| MANAGEMENT |  |                           |                           |                      |                           |                         |
| 001        | VENDOR DOCUMENT INDEX AND SCHEDULE   | 4N                        | 6C+E                      |                      | 6C+E                      |                         |
| 002        | ORGANIZATION BRIEF   | 3N                        | 6C+E                      |                      |                           |                         |
| 003        | SCHEDULE LEVEL 1, 2, 3 & 4 SHOWING<br>ENGINEERING, PROCUREMENT,<br>FABRICATION, INSPECTION, TESTING, AND<br>DELIVERY PLAN. | 4N                        | 6C+E                      |                      | 6C+E                      |                         |
| 004        | PHYSICALLY PROGRESS REPORT (EVERY 2<br>WEEKS))   |                           | 6C+E                      |                      |                           |                         |
| 005        | PROJECT ORGANIZATION CHART   | 3N                        | 6C+E                      |                      |                           |                         |
| 006        | REFERENCE LIST   | 3N                        |                           |                      |                           |                         |
| 007        | VENDOR CATALOGUE   | 3N                        |                           |                      |                           |                         |
| QUALITY    |  |                           |                           |                      |                           |                         |
| 008        | QUALITY ASSURANCE MANUAL /QUALITY<br>MANAGEMENT SYSTEM CERTIFICATE<br>(ACCORDING TO LATEST REV. OF ISO)                    | 4N                        |                           |                      | 6C+E                      |                         |
| 009        | PRELIMINARY INSPECTION AND TEST PLAN   | 4N                        |                           |                      |                           |                         |
| 010        | INSPECTION AND TEST PLAN   |                           | 6C+E                      |                      | 6C+E                      |                         |
| HSE        |  |                           |                           |                      |                           |                         |
| 011        | HSE PROCEDURE  |                           | 6C+E                      |                      | 6C+E                      |                         |

|   |  |           |            |         |      |          |       |   |      |
|---|--|-----------|------------|---------|------|----------|-------|---|------|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br>053 - 073 - 9184  | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 14 از 19   |      |
|   | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|   | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |

| ITEM NO.      | DOCUMENT   | WITH BID                  | TIME SCHEDULE             |                      |                           |                         |
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| ENGINEERING   |  |                           |                           |                      |                           |                         |
| 012           | ITEM LIST INCLUDING CODE, MATERIAL, DESCRIPTION, SIZE, QTY, ETC.                                 | 4N                        | 6C+E                      |                      | 6C+E                      |                         |
| PROCUREMENT   |  |                           |                           |                      |                           |                         |
| 013           | LIST OF SUB-SUPPLIERS ( TABLE GIVING: PART OF EQUIPMENT, TAG NO., SUB-SUPPLIER REFERENCE)(5.1.3) | 4N                        |                           |                      | 6C+E                      |                         |
| 014           | UN-PRICED COPY OF FINAL TECHNICAL MAIN ORDER AND SUB ORDERS                                      |                           | 6C+E                      |                      |                           |                         |
| 015           | PRELIMINARY PACKING LIST   | 4N                        |                           |                      |                           |                         |
| 016           | PACKING LIST   |                           | 6C+E                      |                      | 6C+E                      |                         |
| MANUFACTURING |  |                           |                           |                      |                           |                         |
| 017           | WELD AND NDT MAP   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 018           | SURFACE PREPARATION AND PAINTING PROCEDURES  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 019           | HEAT TREATMENT PROCEDURES  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 020           | WELDING PROCEDURE SPECIFICATION (INCLUDING REPAIR PROCEDURES).                                   |                           | 6C+E                      |                      | 6C+E                      |                         |
| TESTING       |  |                           |                           |                      |                           |                         |
| 021           | HYDROSTATIC / PNEUMATIC TESTING PROCEDURE  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 022           | NON-DESTRUCTIVE TESTING/EXAMINATION PROCEDURES   |                           | 6C+E                      |                      | 6C+E                      |                         |

|  |  |           |            |         |      |          |       |      |   |
|--|--|-----------|------------|---------|------|----------|-------|------|---|
| <br>NISOC | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |      | <br>شرکت توسعه ترابریان<br> |
| شماره پیمان:<br>053 – 073 – 9184   | PMR FOR PIPES  |           |            |         |      |          |       |      | شماره صفحه : 15 از 19   |
|  | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه |   |
|  | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  | D00  |   |

| ITEM NO.                        | DOCUMENT   | WITH BID                  | TIME SCHEDULE             |                      |                           |                         |
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| RECORDS, REPORTS & CERTIFICATES |  |                           |                           |                      |                           |                         |
| 023                             | MATERIAL CONFORMITY CERTIFICATE  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 024                             | CONFORMITY CERTIFICATES (SUB-SUPPLIER/EQUIPMENT)   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 025                             | MATERIAL CERTIFICATES IDENTIFICATION DIAGRAM. (CROSS-REFERENCE MATERIAL LOCATION ; CERTIFICATES FOR CRITICAL COMPONENTS) |                           | 6C+E                      |                      | 6C+E                      |                         |
| 026                             | WELDING PROCEDURE QUALIFICATION RECORD   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 027                             | NDT OPERATOR QUALIFICATIONS  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 028                             | DETAILED NDT REPORTS   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 029                             | WELD/ NDT IDENTIFICATION DIAGRAM. (CROSS-REFERENCE WELD LOCATIONS, WPS, WELDERS, NDT REPORTS).                           |                           | 6C+E                      |                      | 6C+E                      |                         |
| 030                             | DIMENSIONAL CONTROL REPORTS  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 031                             | HARDNESS TEST REPORTS  |                           | 6C+E                      |                      | 6C+E                      |                         |
| 032                             | HEAT TREATMENT CERTIFICATE   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 033                             | PWHT CHARTS & REPORTS, INCLUDING CALIBRATION RECORDS OF RECORDERS (FOR EACH HEAT TREATMENT)                              |                           | 6C+E                      |                      | 6C+E                      |                         |
| 034                             | CORROSION RESISTANCE TEST CERTIFICATE (HIC, SSC, ETC.) IF APPLICABLE   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 035                             | PICKLING AND PASSIVATION CERTIFICATE   |                           | 6C+E                      |                      | 6C+E                      |                         |

|   |  |           |            |         |      |          |       |   |      |
|---|--|-----------|------------|---------|------|----------|-------|---|------|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br>053 - 073 - 9184  | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 16 از 19   |      |
|   | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|   | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |



| ITEM NO.                        | DOCUMENT  | WITH BID                  | TIME SCHEDULE             |                      |                           |                         |
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| 036                             | PRESSURE TEST REPORTS / CERTIFICATES                    |                           | 6C+E                      |                      | 6C+E                      |                         |
| 037                             | SURFACE PREPARATION & COATING REPORTS                   |                           | 6C+E                      |                      | 6C+E                      |                         |
| 038                             | INSPECTION AND TEST REPORTS(IF ANY)                     |                           | 6C+E                      |                      | 6C+E                      |                         |
| 039                             | RUST PREVENTION PROCEDURE / REPORT                      |                           | 6C+E                      |                      | 6C+E                      |                         |
| 040                             | NON-CONFORMITIES REPORT                                 |                           | 6C+E                      |                      | 6C+E                      |                         |
| 041                             | FINAL VENDOR QC & DATA BOOKS                            |                           | 6C+E                      |                      | 6C+E                      |                         |
| TRANSPORTATION AND INSTALLATION |   |                           |                           |                      |                           |                         |
| 042                             | SHIPPING VOLUME INFORMATION                             | 4N                        |                           |                      |                           |                         |
| 043                             | SHIPPING LIST   |                           |                           |                      | 6C+E                      |                         |
| 044                             | UNPACKING & INSPECTION INSTRUCTIONS                     |                           | 6C+E                      |                      |                           |                         |
| 045                             | LIFTING, LOADING, UNLOADING & TRANSPORTATION PROCEDURES |                           | 6C+E                      |                      | 6C+E                      |                         |
| 046                             | PRESERVATION & LONG TERM STORAGE PROCEDURES             |                           | 6C+E                      |                      | 6C+E                      |                         |
| 047                             | ERECTION/INSTALLATION MANUAL (IF REQUIRED)              |                           | 6C+E                      |                      | 6C+E                      |                         |
| OPERATION & MAINTENANCE         |   |                           |                           |                      |                           |                         |
| 048                             | LIST OF SPARE PARTS COMMISSIONING & START-UP            | 4N                        | 6C+E                      |                      | 6C+E                      |                         |



شماره صفحه : 17 از 19

| نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |
|------|-------|----------|------|---------|------------|-----------|-------|
| D00  | 0001  | MB       | PI   | 120     | PEDCO      | GCS       | BK    |

| ITEM NO.   | DOCUMENT  | WITH BID                  | TIME SCHEDULE             |                      |                           |                         |
|--|---|---------------------------|---------------------------|----------------------|---------------------------|-------------------------|
|  |   |                           | FOR REVIEW                |                      | FINAL ISSUE               |                         |
|  |   | COPIES<br>NO./TYPE<br>(7) | COPIES<br>NO./TYPE<br>(1) | SOLAR<br>DAYS<br>(2) | COPIES<br>NO./TYPE<br>(1) | CALENDAR<br>DAYS<br>(3) |
| 049  | LIST OF SPARE PARTS 2 YEARS OPERATION                             | 4N                        | 6C+E                      |                      | 6C+E                      |                         |
| OTHERS   |   |                           |                           |                      |                           |                         |
| 050  | ALL OTHERS DOCUMENTS (IF REQUIRED)<br>WILL BE LISTED IN THE ORDER |                           | 6C+E                      |                      |                           |                         |
| <p>NOTES:</p> <p>(1) N= NUMBER OF DOCUMENT, C=COPY, E=ELECTRONIC COPY</p> <p>(2) STARTING FROM DATE OF ORDER PLACEMENT</p> <p>(3) STARTING FROM RECEPTION OF DOCUMENTATION WITHOUT COMMENTS</p> <p>(4) FIRST ISSUE OF THE DOCUMENT IS SUBJECTED TO THE RELEASE OF PAYMENT MILESTONE AS PER PURCHASE ORDER</p> <p>(5) CALENDAR DAYS AFTER RECEPTION OF DRIVE DATA</p> <p>(6) PRIOR TO TESTING</p> <p>(7) ONE COPY EACH BID COPY</p> |   |                           |                           |                      |                           |                         |

|  |  |           |            |         |      |          |       |   |      |
|--|--|-----------|------------|---------|------|----------|-------|---|------|
| <br>NISOC | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br><br>053 – 073 – 9184   | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 18 از 19   |      |
|  | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|  | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |

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

|  |  |           |            |         |      |          |       |   |      |
|--|--|-----------|------------|---------|------|----------|-------|---|------|
| <br>NISOC | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |           |            |         |      |          |       |  |      |
| شماره پیمان:<br><br>053 – 073 – 9184   | PMR FOR PIPES  |           |            |         |      |          |       | شماره صفحه : 19 از 19   |      |
|  | پروژه  | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال |   | نسخه |
|  | BK   | GCS       | PEDCO      | 120     | PI   | MR       | 0001  |   | D00  |

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