



نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

PMR FOR PRESSURE VESSELS

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D03	0003	MR	ME	120	PEDCO	GCS	BK

شماره صفحه: ۱ از ۲۴

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PMR FOR PRESSURE VESSELS

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D03	SEP. 2024	IFI	V.Amjadi	M.Fakharian	M. Sadeghian	
D02	JUL. 2023	IFI	H. Adineh	M.Fakharian	A.M.Mohseni	
D01	JUL. 2022	IFI	H. Adineh	M.Fakharian	M.Mehrshad	
D00	FEB. 2022	IFI	H. Adineh	M.Fakharian	M.Mehrshad	

Class: 3

CLIENT Doc. Number: F0Z-709221

Status:

- IDC: Inter-Discipline Check
- IFC: Issued For Comment
- IFA: Issued For Approval
- AFD: Approved For Design
- AFC: Approved For Construction
- AFP: Approved For Purchase
- AFQ: Approved For Quotation
- IFI: Issued For Information
- AB-R: As-Built for CLIENT Review
- AB-A: As-Built –Approved



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شماره پیمان:

PMR FOR PRESSURE VESSELS

شماره صفحه: ۲ از ۲۴

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	ME	MR	0003	D03

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 /PURCHASER:	Joint Venture of : Hirgan Energy – Design & Inspection (D&I) Companies
VENDOR:	The firm or person who will fabricate/supply 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.

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## 2.0 GENERAL

- This document presents the item material requisitions for Contractor's use as appropriate.
- This material requisition covers the requirements for the design, manufacturing, testing and supply of Pressure Vessels 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.
- VENDOR's supply shall include:



No.	Item	Description	QTY.
1	V-2101A/B/C	1st Stage G.C. Suction Drums	3
2	V-2102A/B/C	2nd Stage G.C. Suction Drums	3
3	V-2103	Discharge Gas K.O. Drum	1
4	V-2104	Slug Catcher	1
5	V-2105	Inlet Gas K.O. Drum	1
6	V-2107	Glycol Sump Drum	1
7	V-2201	Flare K.O. Drum	1
8	V-2202	Close Drain Drum	1
9	V-2203	Instrument Air Receiver	1
10	V-2204	Nitrogen Receiver	1
11	V-2205	Fuel Gas K.O. Drum	1
12	V-2206	Diesel Oil Drum	1

## 3.0 REFERENCE / ATTACHED DOCUMENTS

- Specified documents in attachment 1 shall be considered as a part of this material Requisition.

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

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

The proposed deviations/comments list shall include as minimum:

- Reference for the involved specification, chapter and paragraph.
- Technical justification for the non-compliance.
- Detailed description of the proposed alternative.


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

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

#### 4.0 SUBJECT OF THE SUPPLY

The VENDOR shall supply Pressure Vessel that completely assembled and tested. The scope of supply is detailed at para. 5.1 The VENDOR 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.

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## 5.0 LIMITS OF SUPPLY

### 5.1 SCOPE OF SUPPLY

Vendor's technical proposal shall include but not be limited to, equipment, materials specified in the following table. Here under articles marked with "X" shall be within Vendor's Scope of Supply and articles marked with "O" shall be considered as optional.

Description	Required by Purchaser	Bidder's Proposal (*)	Remarks
1. Equipment and/or Materials (Including Certificates) (Refer to Table "1")	[ X ]	[ ]	
2. All Welded Internals/External attachment	[ X ]	[ ]	
3. Insulation support clips and rings (where applicable)	[ X ]	[ ]	
4. Paint	[ X ]	[ ]	
5. Gasket, Bolts, Nuts and Washers For Nozzles With Companion Flanges, Internal Flanges, Blinded Flanges	[ X ]	[ ]	
6. Name plate made of stainless steel and its support bracket	[ X ]	[ ]	
7. Temporary support for transportation, if necessary	[ X ]	[ ]	
8. Davit/hinge & safe inter lock for Closures	[ X ]	[ ]	
9. Material for External surface preparation	[ X ]	[ ]	
10. Other Traps accessories, appurtenances and penetrations as defined in the Pressure Vessel data sheet	[ X ]	[ ]	
11. Inhibition materials against internal corrosion for transportation and longtime storage at stockyard	[ X ]	[ ]	
12. Spare parts for insurance, construction, pre commissioning, commissioning and start-up as per Att#5	[ X ]	[ ]	
13. Spare Parts for Two Years Operation As Per Att#5	[ O ]	[ ]	
14. Special tools for erection, maintenance and all required tests	[ O ]	[ ]	
15. Consumable materials such as welding electrodes and etc.	[ X ]	[ ]	
16. Temporary blinds for hydro test	[ X ]	[ ]	
17. Material Certificates for all parts	[ X ]	[ ]	

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Description	Required by Purchaser	Bidder's Proposal (*)	Remarks
18. All documents and certificates for CLIENT approval as required	[ X ]	[ ]	
19. All certificates requested in this specification	[ X ]	[ ]	
20. Nozzles and Closure	[ X ]	[ ]	

(\*) : Bidder to put "C" as confirmation or "D" as deviation and to fill the related form (Att. #3) accordingly.

Commissioning and start-up spare parts shall be listed in a separate SPIR form (Att. #5 If requested).

During bid stage and if requested by the Purchaser, Vendor shall submit a detail list of spare parts for two years of operation (Based on Project's Spare Part requirements)

#### NOTES:



Sub-Vendors shall be from the latest edition of MOP(Iran Ministry of Petroleum)-AVL. Sub-Vendors list shall be specified and it will be subject to Purchaser's Approval.

Vendor shall confirm and clarify suitability of above mentioned scope of supply based on technical aspect, safe operation, his experience and industrial normal practices


## 5.2 SCOPE OF WORK

Scope of WORK includes all items specified in documents, mentioned in "LIST OF REFERENCE / APPLICABLE DOCUMENTS", included in clause 5.2.

Vendor's technical proposal shall include but not be limited to works specified in the following table. Hereunder Articles marked with "X" shall be within Vendor's Scope of Work and articles marked with "O" shall be considered as optional.

Description	Required by Purchaser	Bidder's Proposal (*)	Remarks
1. Engineering Design and Documentation	[ X ]	[ ]	
2. Strength calculation and stress analysis based on the relevant specifications and codes, FEA where required by PURCHASER	[ X ]	[ ]	



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Description	Required by Purchaser	Bidder's Proposal (*)	Remarks
3. Strength calculation and stress analysis based on the relevant specifications and codes, FEA where required by PURCHASER	[ X ]	[ ]	
4. Preparation of shop/site pre-fabrication, inspection, test and installation procedures	[ X ]	[ ]	
5. PWHT or Stress relieving, if required	[ X ]	[ ]	
6. External surface preparation	[ X ]	[ ]	
7. Guarantee of the suitability of all used materials (chemical composition, mechanical properties and origin of materials)	[ X ]	[ ]	
8. Equipment identification	[ X ]	[ ]	
9. Sub-Vendor Coordination	[ X ]	[ ]	
10. Rust prevention for transportation and long time storage and any provisions against corrosive during shipment to site	[ X ]	[ ]	
11. Marking, packing and Loading on the truck (for transportation)	[ X ]	[ ]	
12. Documentation as per the requirements of this specification	[ X ]	[ ]	
13. Reinforcement for transportation, and loading/unloading during shipping (It is Vendor responsibility to define the necessity of reinforcements)	[ X ]	[ ]	
14. Quantity and Size of anchor bolts, relevant B.C.D and finalized loading data including erection, operating and hydro test shear and moment due to wind and earthquake	[ X ]	[ ]	
15. Document control and submissions to Purchaser for review/ comments/ final filling and uploading them progressively	[ X ]	[ ]	
16. As built drawings and documents	[ X ]	[ ]	

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## NOTES:

(\*Bidder to put "C" as confirmation or "D" as deviation and to fill the related form (Att. #3) accordingly.

The Design and Construction shall comply with all Regulations of the Project Defined Codes and Standards.

All document to be submitted with vendor's proposal shall be in reproducible(s) according to attachment #2 requirements and be written in English.

All documents and drawings shall state the name of purchaser work No., Identification No. and the name of commodity.

Vendor should submit the commercial quotation according to procurement instruction for proposal commercial part.

All prefabricated components or loose-supplied components shall be clearly identified by suitable marking method in order to simplify field handling, storage and erection.

All rolled plates shall be shipped on temporary saddles to prevent any deformation during handling and storage (such temporary saddles shall be supplied by VENDOR)





### 5.3 SPARE PARTS

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

- Spare parts for erection, pre-commissioning, commissioning and start-up; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&C-QC-SP-1).
- Spare parts for two years operation; a qualified and complete list based on PROJECT SPARE PART SUPPLY PROCEDURE (Doc. No. E&C-QC-SP-1).
- Capital spare parts (as option / if any)

### 5.4 EXCLUSION

- Deluge system
- Foundation anchor bolts
- Traps foundation
- Civil work at site
- Instrumentation

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<p>شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<p><b>PMR FOR PRESSURE VESSELS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">پروژه</td> <td style="width: 10%;">بسته کاری</td> <td style="width: 10%;">صادر کننده</td> <td style="width: 10%;">تسهیلات</td> <td style="width: 10%;">رشته</td> <td style="width: 10%;">نوع مدرک</td> <td style="width: 10%;">سریال</td> <td style="width: 10%;">نسخه</td> </tr> <tr> <td>BK</td> <td>GCS</td> <td>PEDCO</td> <td>120</td> <td>ME</td> <td>MR</td> <td>0003</td> <td>D03</td> </tr> </table>	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	ME	MR	0003	D03	<p>شماره صفحه : ۱۱ از ۲۴</p>
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه											
BK	GCS	PEDCO	120	ME	MR	0003	D03											

## 6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the Inspection & Test plan (ITP) issued by VENDOR and approved by the "PURCHASER, GC & CLIENT" after the award of the order. The Inspection & Test plan (ITP) shall at least be according to the Commodity Procurement and Manufacturing Inspection Instruction (Doc. No. ICE-EID-MI-SP01-Rev01), Inspection Level of Commodity and Equipment (Doc. No. ICE-EID-MI-SP02-REV-01), and data sheets. VENDOR shall in any case conduct all the tests required by contractual documents, specifications, codes and standards, manufacturer standard quality system and keep the relevant documentation. All required manufacturing and function test/ inspection also Factory Acceptance Tests/ Site Acceptance Test and Quality Assurance requirements shall be considered in VENDOR responsibility as pre-project specification.

## 7.0 VENDOR DOCUMENTATION REQUIREMENTS & SCHEDULE

- Vendor document shall be according to attachment 2 of this document.
- All documents, preliminary or final, are to be stamped and signed by VENDOR.
- Failure in dispatch of the required documents shall cause the supply to be considered as unfulfilled.
- PURCHASER's approval does not relieve vendor, in any way, from his obligation to fulfill the requirements of the purchase order documents.
- All vendor drawings and documents shall be in English language.

All drawings and documents are to be identified as per clause 1 "**GENERAL DEFINITION**"

## 8.0 UNIT RESPONSIBILITY

VENDOR shall be responsible for the design, engineering, co-ordination, supply, manufacturing/fabrication 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-VENDORS.

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BK	GCS	PEDCO	120	ME	MR	0003	D03											

## 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 (24) months from the date of delivery or twelve (18) months from the installation date of each equipment/packages at site.

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 Equipment for correct and safe operation based on project requirement during Equipment 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 Equipment operation at site before P.O; otherwise, VENDOR shall be hold responsible for any corresponding deviation from expectations from the Equipment/Devices/Items.

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## 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

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

- 1) Material and Fabrication for each Section Separately
- 2) Pre-commissioning & commissioning spare parts (E&C-QC-SP-1)
- 3) 2 years operational spare parts (E&C-QC-SP-1)
- 4) Packing & loading on truck
- 5) Other fee (if any)



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### ATTACHMENT #1



### LIST OF REFERENCE / APPLICABLE DOCUMENTS

No.	Document No.	Document Title	Rev.
<b>Process</b>			
1	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis of Design	D08
2	BK-GNRAL-PEDCO-000-PR-DC-0001	Process Design Criteria	D02
<b>Mechanical</b>			
3	BK-GNRAL-PEDCO-000-ME-DC-0001	Mechanical Design Criteria	D04
4	BK-GNRAL-PEDCO-000-ME-SP-0001	Specification for Pressure Vessels	D03
5	BK-GCS-PEDCO-120-ME-DT-0001	Mech. D/Sh. For Inlet Gas K.O. Drum	D04
6	BK-GCS-PEDCO-120-ME-DT-0002	Mech. D/Sh. For 1st Stage G.C. Suction Drums	D05
7	BK-GCS-PEDCO-120-ME-DT-0004	Mech. D/Sh. For 2nd Stage G.C. Suction Drums	D05
8	BK-GCS-PEDCO-120-ME-DT-0006	Mech. D/Sh. For Discharge Gas K.O. Drum	D04
9	BK-GCS-PEDCO-120-ME-DT-0007	Mech. D/Sh. For Diesel Oil Drum	D03
10	BK-GCS-PEDCO-120-ME-DT-0008	Mech. D/Sh. For Instrument Air Receiver	D03
11	BK-GCS-PEDCO-120-ME-DT-0009	Mech. D/Sh. For Nitrogen Receiver	D04
12	BK-GCS-PEDCO-120-ME-DT-0010	Mech. D/Sh. For Close Drain Drum	D03
13	BK-GCS-PEDCO-120-ME-DT-0012	Mech. D/Sh. For Flare K.O. Drum	D03
14	BK-GCS-PEDCO-120-ME-DT-0013	Mech. D/Sh. For Fuel Gas K.O. Drum	D03
15	BK-GCS-PEDCO-120-ME-DT-0014	Mech. D/Sh. For Slug Catcher	D03
16	BK-GCS-PEDCO-120-ME-DT-0036	Mech. D/Sh. For Glycol sump drum	D03
<b>General</b>			
17	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00
18	ICE-EID-MI-SP01	دستور العمل بازرسی، خرید و ساخت کالا	D01
19	E&C-QC-SP-1	دستور العمل تامین قطعات بدکی راه اندازی و راهبری دو سالانه	D01
20	ICE-EID-MI-SP02	دستور العمل انتخاب سطح بازرسی کالا و تجهیزات	D01
21	BK-GNRAL-PEDCO-000-QC-PR-0022	Spec. For Final Data Book (FDB) requirements	D00
<b>Structure</b>			
22	BK-GNRAL-PEDCO-000-ST-DW-0002	Standard Drawing for Anchor Bolts	D02
23	BK-GNRAL-PEDCO-000-ST-SP-0003	Specification for Fabrication of Steel Structures	D02
24	BK-GNRAL-PEDCO-000-ST-SP-0005	Specification for Erection of Steel Structures	D02
25	BK-GNRAL-PEDCO-000-ST-SP-0006	Specification for Fireproofing	D03
<b>Piping &amp; Material</b>			
26	BK-GNRAL-PEDCO-000-PI-SP-0008	Spec. for Material Requirements in Sour service	D02
27	BK-GCS-PEDCO-120-PI-SP-0001	Piping Material Specification (PMS)	D06
28	BK-GNRAL-PEDCO-000-PI-SP-0005	Spec. for Fittings, Flanges, Gaskets and Bolts	D02

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BK	GCS	PEDCO	120	ME	MR	0003	D03											

No.	Document No.	Document Title	Rev.
29	BK-GNRAL-PEDCO-000-PI-SP-0006	Specification for Painting	D04
30	BK-GNRAL-PEDCO-000-PI-SP-0007	Specification for Lining	D03
31	BK-GNRAL-PEDCO-000-PI-SP-0001	Specification for color coding and marking	D02
32	BK-GNRAL-PEDCO-000-PI-SP-0017	Specification for Cleaning and Flushing	D03
33	BK-GNRAL-PEDCO-000-PI-SP-0019	Specification for Insulation	D02
<b>Drawing</b>			
34	BK-GNRAL-PEDCO-000-ME-DW-0002	Standard Detail Drawing for Pressure Vessel	D02

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## ATTACHMENT #2



### VENDOR DOCUMENTS MIN. REQUIREMENT

Item No.	Document	With Bid Copies No./Type (7)	TIME SCHEDULE			
			For Review		Final Issue	
			Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
<b>MANAGEMENT</b>						
001	Vendor Document Index and Schedule (Deleted)	4N	6C+E		6C+E	
002	Organization Brief	3N	6C+E			
003	Schedule Level 1, 2, 3 & 4 showing Engineering, Procurement, Fabrication, Inspection, Testing, and Delivery Plan.	4N	6C+E		6C+E	
004	Physically Progress Report (Every 2 Weeks)		6C+E			
005	Project Organization Chart	3N	6C+E			
006	Reference List	3N				
007	Vendor Catalogue	3N				
<b>QUALITY</b>						
008	Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)	4N			6C+E	
009	Preliminary Inspection and Test Plan	4N				
010	Inspection and Test Plan		6C+E		6C+E	
<b>INTERFACE</b>						
012	General Arrangements Drawings		6C+E		6C+E	
013	Earthing Details		6C+E		6C+E	
014	Weight / Centre of Gravity Drawings & Data's	4N	6C+E		6C+E	
015	External Static and Dynamic Forces & Moments (present during test, start-up, normal/maximum operation, shutdown, and other conditions of service)	4N	6C+E		6C+E	



 <b>نکهداشت و افزایش تولید میدان نفتی بینک</b> <b>سطح الارض</b> <b>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</b>									
	<b>PMR FOR PRESSURE VESSELS</b>								
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Item No.	Document	With Bid	TIME SCHEDULE				
			For Review		Final Issue		
			Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
016	Wind and Seismic Loads including shear and moment forces on supports and foundation.		6C+E			6C+E	
017	Anchor Bolt Details Drawings (incl. size, type, locations relative to the equipment center-lines in three planes).	4N	6C+E			6C+E	
018	Earthing Details	3N	6C+E			6C+E	020
019	Weight / Centre of Gravity Drawings & Data's	3N	6C+E			6C+E	021
020	External Static and Dynamic Forces & Moments (present during test, start-up, normal/maximum operation, shutdown, and other conditions of service)		6C+E			6C+E	022
<b>ENGINEERING</b>							
021	Breakdown Weight and Dimensions of Equipment		6C+E			6C+E	
022	Mechanical Design Calculation Book (Including Lifting & WRC, ...)/ Local Stress Analysis		6C+E			6C+E	
023	General Arrangement Drawing including Loading Table/ Nozzle list and any required information		6C+E			6C+E	
024	Nozzles & Manholes Detail Drawing		6C+E			6C+E	
025	Ladder & Platform Detail Drawings (Including Dimensions, weight, ...)		6C+E			6C+E	
026	Internal Attachment Detail Drawing		6C+E			6C+E	
027	External Attachment Detail Drawing		6C+E			6C+E	
028	Pipe Clips Detail Drawing		6C+E			6C+E	
029	Name Plate Detail Drawing		6C+E			6C+E	
030	Template/ Gauge Plate Detail Drawing		6C+E			6C+E	
031	Developed Drawings (including		6C+E			6C+E	

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			Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)		
	exploded drawings)								
032	Breakdown Weight and Dimensions of Equipment		6C+E		6C+E				
033	Mechanical Design Calculation Book (Including Lifting & WRC, ...)/ Local Stress Analysis		6C+E		6C+E				
034	Welding Book (Including WPS, PQR & Weld Map)		6C+E		6C+E				
035	NDE & Inspection Procedures		6C+E		6C+E				
036	NDT map		6C+E		6C+E				
037	Rust prevention, Surface Preparation/ Painting Procedure		6C+E		6C+E				
038	Painting procedure		6C+E		6C+E				
039	Hydro-Test Procedures		6C+E		6C+E				
040	Repair Procedure (If Any)		6C+E		6C+E				
041	PWHT / PFHT Procedure (If Required)		6C+E		6C+E				
042	As Built Drawings		6C+E		6C+E				
043	Bolt Tightening Procedure		6C+E		6C+E				
044	Marked-up Mechanical Data Sheet (as per As Built Drawing)		6C+E		6C+E				
045	Parts/Material List		6C+E		6C+E				
<b>PROCUREMENT</b>									
046	Sub Vendor List	4N			6C+E				
047	Sub-Contractor List		6C+E						
048	Packing List								
049	Loose Parts List								
<b>MANUFACTURING</b>									
050	Weld and NDT Map		6C+E		6C+E				

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شماره پیمان:	<b>PMR FOR PRESSURE VESSELS</b>						شماره صفحه: ۱۹ از ۲۴	
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	BK	GCS	PEDCO	120	ME	MR	0003	D03

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
			Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)
051	Surface Preparation and Painting Procedures		6C+E		6C+E	
052	Heat Treatment Procedures		6C+E		6C+E	
053	Welding Procedure Specification (including repair procedures).		6C+E		6C+E	
054	Welder Qualification Procedure		6C+E		6C+E	
055	Fabrication Degree	3N				
<b>TESTING</b>						
056	Hydrostatic / Pneumatic Testing Procedure		6C+E		6C+E	
057	Non-Destructive Testing/Examination Procedures		6C+E		6C+E	
<b>RECORDS, REPORTS &amp; CERTIFICATES</b>						
058	Material Conformity Certificate		6C+E		6C+E	
059	Testing Authority Approval Certificate (if any)		6C+E		6C+E	
060	Ingress Protection Certificate		6C+E		6C+E	
061	Conformity Certificates (sub-VENDOR/equipment)		6C+E		6C+E	
062	Material Certificates Identification Diagram. (cross-reference material location ; certificates for critical components)		6C+E		6C+E	
063	Welding Procedure Qualification Record		6C+E		6C+E	
064	Welder Qualification Records.		6C+E		6C+E	
065	NDT Operator Qualifications		6C+E		6C+E	
066	Detailed NDT Reports		6C+E		6C+E	
067	Weld/ NDT Identification Diagram. (Cross-reference weld locations, WPS, welders, NDT reports).		6C+E		6C+E	
068	Dimensional Control Reports		6C+E		6C+E	
069	Hardness Test Reports		6C+E		6C+E	
070	PWHT Charts & Reports, including calibration records of recorders (for each		6C+E		6C+E	

 <b>شماره پیمان:</b> ۰۵۳ - ۰۷۳ - ۹۱۸۴	<b>نگهداشت و افزایش تولید میدان نفتی بینک</b> <b>سطح الارض</b> <b>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</b>							 شماره صفحه : ۲۰ از ۲۴
	<b>PMR FOR PRESSURE VESSELS</b>							
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	ME	MR	0003	D03



Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
			Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)
	heat treatment)					
071	Surface Preparation & Coating Reports		6C+E		6C+E	
072	Hydrostatic / Pneumatic Testing Certificates		6C+E		6C+E	
073	Welding Consumable Certificate		6C+E		6C+E	
074	Inspection and Test Reports(if any)		6C+E		6C+E	
075	Rust Prevention Report		6C+E		6C+E	
076	Non-Conformities Report		6C+E		6C+E	
077	Painting Operator Certification Record		6C+E		6C+E	
<b>INSTALLATION</b>						
078	Sub-Assembly Documentation		6C+E		6C+E	
079	Sub-Assembly Drawings		6C+E		6C+E	
080	Erection/Installation Manual (if required)		6C+E		6C+E	
081	Name Plate Documents		6C+E		6C+E	
082	Handling, Transportation & Storage Instructions		6C+E		6C+E	
083	Unpacking & Inspection Instructions		6C+E			
084	Preliminary Packing List	4N				
085	Packing List		6C+E		6C+E	
<b>OPERATION &amp; MAINTENANCE</b>						
086	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	136
087	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	136
<b>VENDOR FINAL DOCUMENTS</b>						
088	Vendor Final Book				6C+E	
089	All others documents (if required) will be listed in the order		6C+E			

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																	
<p>شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<p><b>PMR FOR PRESSURE VESSELS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>GCS</td> <td>PEDCO</td> <td>120</td> <td>ME</td> <td>MR</td> <td>0003</td> <td>D03</td> </tr> </table>	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	ME	MR	0003	D03	<p>شماره صفحه : ۲۱ از ۲۴</p>
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه											
BK	GCS	PEDCO	120	ME	MR	0003	D03											

Item No.	Document	With Bid	TIME SCHEDULE			
			For Review		Final Issue	
			Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)

**NOTES:**

- (1) N= Number of document, C=Copy, E=Electronic Copy
- (2) Starting from date of order placement
- (3) Starting from reception of documentation without comments
- (4) First issue of the document is subjected to the release of payment milestone as per purchase order
- (5) Calendar days after reception of drive data
- (6) Prior to testing
- (7) One copy each bid copy
- (8) List of Documents will be Finalized in Vendor Document Index and Schedule
- (9) List of Documents will be finalized in Vendor Document Index and Schedule.

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																	
<p>شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<p><b>PMR FOR PRESSURE VESSELS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>GCS</td> <td>PEDCO</td> <td>120</td> <td>ME</td> <td>MR</td> <td>0003</td> <td>D03</td> </tr> </table>	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	ME	MR	0003	D03	<p>شماره صفحه : ۲۲ از ۲۴</p>
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه											
BK	GCS	PEDCO	120	ME	MR	0003	D03											

### 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>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																							
<p>شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<p>PMR FOR PRESSURE VESSELS</p> <table border="1"> <tr> <td>نسخه</td> <td>سریال</td> <td>نوع مدرک</td> <td>رشته</td> <td>تسهیلات</td> <td>صادرکننده</td> <td>بسته کاری</td> <td>پروژه</td> </tr> <tr> <td>D03</td> <td>0003</td> <td>MR</td> <td>ME</td> <td>120</td> <td>PEDCO</td> <td>GCS</td> <td>BK</td> </tr> </table>							نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D03	0003	MR	ME	120	PEDCO	GCS	BK	<p>شماره صفحه: ۲۳ از ۲۴</p>
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																	
D03	0003	MR	ME	120	PEDCO	GCS	BK																	

ATTACHMENT #4

**SUB VENDOR LIST**

(TO BE IN ACCORDANCE WITH MOP-AVL)

Item No.	Material Description	Proposed Sub-Vendor

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																							
<p>شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<p>PMR FOR PRESSURE VESSELS</p> <table border="1"> <tr> <td>نسخه</td> <td>سریال</td> <td>نوع مدرک</td> <td>رشته</td> <td>تسهیلات</td> <td>صادرکننده</td> <td>بسته کاری</td> <td>پروژه</td> </tr> <tr> <td>D03</td> <td>0003</td> <td>MR</td> <td>ME</td> <td>120</td> <td>PEDCO</td> <td>GCS</td> <td>BK</td> </tr> </table>							نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D03	0003	MR	ME	120	PEDCO	GCS	BK	<p>شماره صفحه : ۲۴ از ۲۴</p>
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																	
D03	0003	MR	ME	120	PEDCO	GCS	BK																	

**ATTACHMENT #5**

**SPARE PARTS LIST**

(Based on E & C- QC- SP-1)

(TABLE 1-14) PRESSURE VESSELS & TANKS	
ITEMS	QUANTITIES