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طرح نگهداشت و افزایش تولید 27 مخزن

PMR FOR PRESSURE VESSELS

نگهداشت و افزایش تولید میدان نفتی بینک

D01	JUL. 2022	IFI	H. Adineh	M.Fakharian	M.Mehrshad	
D00	FEB. 2022	IFI	H. Adineh	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

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

 <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>																	
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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	Deleted		
7	V-2107	Glycol Sump Drum	1
8	V-2201	Flare K.O. Drum	1
9	V-2202	Close Drain Drum	1
10	V-2203	Instrument Air Receiver	1
11	V-2204	Nitrogen Receiver	1
12	V-2205	Fuel Gas K.O. Drum	1
13	V-2206	Diesel Oil Drum	1

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	BK	GCS	PEDCO	120	ME	MR	0003	D01	

3.0 REFERENCE / ATTACHED DOCUMENTS

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

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

The proposed deviations/comments list shall include as minimum:



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

If no exceptions or clarifications exist, either for the complete referenced document or an individual paragraph, 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 supplier shall supply Pressure Vessel that completely assembled and tested. The scope of supply is detailed at para. 5.1 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.

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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

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]	[]	

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Description	Required by Purchaser	Bidder's Proposal (*)	Remarks
16. Temporary blinds for hydro test	[X]	[]	
17. Material Certificates for all parts	[X]	[]	
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-Vendor List (If applicable) 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]	[]	

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

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							D01	

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

5.4 EXCLUSION

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

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6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the quality control plan issued by VENDOR and approved by the PURCHASER before the award of the order. The QC plan shall at least be according to the “دستورالعمل بازرسی خرید و ساخت کالا” (Doc. No. ICE-EID-MI-SP01-Rev01), the “دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات” (Doc. No. ICE-EID-MI-SP02-REV-01), and data sheets (if any).

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.

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-suppliers.



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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 eighteen (18) months from the date of delivery or twelve (12) months from the installation date of each equipment/packages at site.

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

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

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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.

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

12.0 SPECIAL NOTES

12.1 KICK-OFF MEETING (KOM)

After the order is awarded, Vendor shall, upon receipt of Purchaser's notice, dispatch sufficient number of qualified personnel to Purchaser's office at Vendor's cost to hold the Kick-Off Meeting to confirm the procedure at least for the following categories:

- Detail procedures for correspondence, document delivery plan and Purchaser's review method and etc. shall be established.
- Document Handling procedure
- Production plan / time schedule
- Quality Control
- VPIS (Vendor Print Index Schedule)

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- Invoicing procedure
- Shipping document
- Other Technical Points

12.2 PRE-INSPECTION MEETING (PIM)

Before starting the fabrication and inspection jobs, a pre-inspection meeting (PIM) will be held (at VENDOR shop or Purchaser's office based on Purchaser decision) with presence of Purchaser and Third Party Inspector representatives.

12.3 TECHNICAL QUOTATION SHALL INCLUDE THE FOLLOWING ITEMS AS A MINIMUM:

- Proposal No., date and revision
- Purchaser's Requisition number
- Approximate shipping weight and dimension
- Special tools and test equipment list
- Completed Purchaser's Data Sheets
- Description of System
- Completed TBA Form
- Completed Attachment #1 (Filled designated cells)
- Filled, signed and stamped Exception, Deviation and Alternative list
- Signed and stamped pages of this Material Requisition and cover page of attachments
- Time schedule
- Earliest delivery date(s)
- Vendors reference list
- QC Plan
- Quality system certificates (ISO...)
- Origin of material being quoted (country, place and name of manufacturer)
- All technical documentation and Drawings shall be in English language.
- Purchaser or CLIENT's acceptance of Vendor's drawings or data with or without comments does not relieve VENDOR of the responsibility of complying with all

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terms, conditions, codes, standards, requirements of this requisition and project specifications.

- Purchaser reserves the right to review and comment on vendor documents that have previously been accepted with or without comments based on project requirement.
- Proven technologies only shall be considered in the selection of equipment. Vendor shall submit reference list with at least two years trouble-free running experience in similar duty and environment to those specified within quotations stage.
- This Requisition sets out the minimum requirements and does not relieve VENDOR of his full responsibility for the design and reliable operation of the elements supplied. Therefore VENDOR will be liable for the correct operation of any auxiliary elements involved.
- In the preparation of their proposal, Vendor shall fulfill all the provisions of this Requisition even if they differ from the standard supply. Whenever VENDOR cannot comply with the present Requisition for technical reasons, it shall be stated in detail in the Exception, Deviation and Alternative list (Attachment #3).
- For satisfactory system performance and full compliance with the attached specification, all required accessories and/or components shall be provided by Vendor whether or not requested devices are herein specified.
- Bidders may supplement their basic quotations with alternative design of significant advantages such as improving performance, delivery date, costs, etc. The supplement shall be provided with proper evidence/justification and shall be subjected to Purchaser's written approval prior to start of the work although the base offer shall be always in line with the inquiry.
- Any comments on drawing and/or Vendor data which will be submitted in accordance with Vendor document approval process shall be incorporated by Vendor and shall not affect the contracted price as far as they are in line with the requirements of this specification and/or good industrial engineering practice.
- Purchaser reserves the right to change the delivery sequence, interval and timing in order to meet the requirements of the site erection or overall construction sequence, etc. Upon Purchaser's change requests of the delivery sequence, interval and timing, Vendor shall control and expedite his work and delivery process.
- No protection, paint or other filling shall be applied to the contract works before they

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have been inspected, tested and approved.

- Spare parts for erection, pre-commissioning, commissioning and start-up:
- The erection, pre-commissioning, commissioning and start-up spare parts shall be supplied together with the equipment (If requested as per Scope of Supply of this MR). All spare parts shall comply with the same standard and spec. as the original equipment and shall be fully interchangeable with the original parts.
- Supply of Spare Part for two years of operation (If requested as per Scope of Supply of this MR), shall be within Vendor's scope of supply. All spare parts shall comply with the same standard and spec. as the original equipment and shall be fully interchangeable with the original parts.
- Vendor shall provide utility summary within proposal stage.
- VENDOR's quotation shall be in strict conformity with conditions stated in this material requisition and any attached documents. Exceptions, deviations and alternatives will be valid only if approved by PURCHASER. Vendor shall confirm full compliance with the project specification requirements except the deviation listed and Purchaser has no responsibility to discover any more deviations or alternative in other parts of Vendor proposal than the agreed submitted list.
- It is Vendor's responsibility to supply/carry out all devices/measures to achieve proper and safe operation, hence if any additional device(s) is needed in VENDOR's battery limit as result of HAZOP study and it could not be proven to eliminate by Vendor's representative(s) in related HAZOP meeting, shall be supplied by Vendor, without cost impact.
- Vendor shall confirm all purchaser reference documents (with considering revision numbers) which have been attached to MR for providing his technical proposal. After each stage of clarification the revised documents and new applicable documents (if any) will be sent to Vendor and the aforementioned list shall be updated as well. Vendor is responsible to consider all consequences regarding the changes in project documents and specifications through whole BID stage. After P.O. placement no cost impact could be accepted.
- All material should be specified according to ASTM. In case non ASTM, AISI, ASME or SAE materials are applied, Vendor shall submit material equivalent comparison table with ASTM; classification such as C.S or S.S is not acceptable.

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- First filling requirements (lube oil, grease, water/glycol ...) shall be supplied by Vendor. Required lube oil for flushing of rotating equipment shall also be included in Vendor scope.
- Scope of supply and work shall be fully based on Scope of supply and work in this Material Requisition (Deleted).
- Name plates shall be made up of stainless steel.
- Certifications as following shall be supplied by Vendor:
- Material Certification (For pressure parts)
- Material Certification (For Non Pressure parts)
- SPIR (Spare Part Interchangeability/Identification Report) shall be fully filled out by Vendor after purchaser order.
- The minimum ship loose items to be considered and informed to Purchaser.
- All tie-in point connections at B.L. shall be flanged type in accordance with ANSI B16.5 and PMS of the project. Otherwise, mating flanges with bolts, nuts and gaskets shall be supplied by Vendor and considered in the base price.
- Tie-ins shall be designed so that movements and rotation tend to zero and allowable imposed loads and moments from piping conform to those values that specified in Appendix N of "Specification for Pressure Vessels"; Doc. No. "BK-GNRAL-PEDCO-000-ME-SP-0001".
- All gaskets shall be asbestos free.
- Vendor shall provide site supervision for construction, pre-commissioning, commissioning, and start-up according to agree per-diem rates. And Vendor shall issue a detailed program for site erection estimating the number of man/day required for supervision and specifying the technical qualification and experience for the personnel deemed necessary for the erection of the equipment after PO.
- All package (equipment, interconnecting piping...) paintings including final painting shall be carried out at Vendor shop prior to delivery to site as per project paint specification.
- Sound pressure level of equipment shall be less than 85 dB at 1 meter of noise source otherwise noise attenuation covers shall be supplied by Vendor.
- Vendor has already been informed regarding Purchaser's utility conditions and in

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case any device is needed to meet Vendor's equipment requirements (such as amplifier, regulator, etc.) shall be supplied by Vendor.

- Manifold flange connection with block valve at the edge of base plate for terminal point with purchaser for all utility services shall be supplied by vendor.
- Motor sunshade, air finned tube coolers sunshade, cooling fan for air fin coolers (if required) shall be supplied by vendor.
- Coupling guards shall be non-sparking type.
- Provision of PDMS 3D Model (or exported model in *.dgn format) is in Vendor scope.
- Vendor's supervisor, who is to be dispatched to site for installation, start-up inspection, repair and maintenance of equipment supplied by Vendor, shall perform his duty for all equipment including materials provided by his subcontractor.
- Vendor's supervisor shall be sufficiently qualified to perform his duty. Vendor shall provide a resume of expected personnel for Purchaser's approval. Purchaser has right to reject the supervisor proposed by Vendor and to appoint alternative personnel.
- The duty of the Supervisor shall include, but not be limited to the following:
 - 1) Witnessing of unpacking inspection of the goods
 - 2) Supervising and giving direction of assembling and installation
 - 3) Checking of the leveling and alignment
 - 4) Checking of the equipment performance
 - 5) Adjustment of safety device and instruments
 - 6) Supervising of preparation of start-up
 - 7) Supervising and giving direction of start-up operation
 - 8) Executing and/or supervising and giving direction for assembling disassembling, inspection and repair.
 - 9) Preparing of inspection and test records and miscellaneous reports
 - 10) To monitor activities time schedule
 - 11) Supervising and giving technical assistance for maintenance service(s).
- Vendor shall identify and be responsible for damages to properties and/or personnel injuries resulted from the gross negligence of the Supervisor while performing duty.
- Any other points as per Purchase Order (PO).

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ATTACHMENT #1

LIST OF REFERENCE / APPLICABLE DOCUMENTS



No.	Document No.	Document Title	Rev.
Process			
1	BK-GNRAL-PEDCO-000-PR-DB-0001	Process Basis of Design	D07
2	BK-GNRAL-PEDCO-000-PR-DC-0001	Process Design Criteria	D02
Mechanical			
3	BK-GNRAL-PEDCO-000-ME-DC-0001	Mechanical Design Criteria	D02
4	BK-GNRAL-PEDCO-000-ME-SP-0001	Specification for Pressure Vessels	D02
5	BK-GCS-PEDCO-120-ME-DT-0001	Mechanical Data Sheets For Inlet Gas K.O. Drum	D02
6	BK-GCS-PEDCO-120-ME-DT-0002	Mechanical Data Sheets For 1st Stage G.C. Suction Drums	D03
7	BK-GCS-PEDCO-120-ME-DT-0004	Mechanical Data Sheets For 2nd Stage G.C. Suction Drums	D03
8	BK-GCS-PEDCO-120-ME-DT-0006	Mechanical Data Sheets For Discharge Gas K.O. Drum	D02
9	BK-GCS-PEDCO-120-ME-DT-0007	Mechanical Data Sheets For Diesel Oil Drum	D00
10	BK-GCS-PEDCO-120-ME-DT-0008	Mechanical Data Sheets For Instrument Air Receiver	D01
11	BK-GCS-PEDCO-120-ME-DT-0009	Mechanical Data Sheets For Nitrogen Receiver	D02
12	BK-GCS-PEDCO-120-ME-DT-0010	Mechanical Data Sheets For Close Drain Drum	D01
13	BK-GCS-PEDCO-120-ME-DT-0012	Mechanical Data Sheets For Flare K.O. Drum	D01
14	BK-GCS-PEDCO-120-ME-DT-0013	Mechanical Data Sheets For Fuel Gas K.O. Drum	D01
15	BK-GCS-PEDCO-120-ME-DT-0014	Mechanical Data Sheets For Slug Catcher	D01
16	Deleted		
17	BK-GCS-PEDCO-120-ME-DT-0036	Mechanical Data Sheets For Glycol sump drum	D01
General Document & Procedures			
18	BK-GNRAL-PEDCO-000-QC-PR-0015	Specification for Welding Procedure	D00
19	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00
20	ICE-EID-MI-SP01	دستور العمل بازرسی، خرید و ساخت کالا	D01
21	E&D-QC-SP-1	دستور العمل تامین قطعات یدکی راه اندازی و راهبری دو سالانه	D01
22	ICE-EID-MI-SP02	دستور العمل انتخاب سطح بازرسی کالا و تجهیزات	D01
23	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) requirements	D00
Civil			
24	BK-GNRAL-PEDCO-000-ST-DW-0002	Standard Drawing for Anchor Bolts	D02
25	BK-GNRAL-PEDCO-000-ST-SP-0003	Specification for Fabrication of Steel Structures	D02
26	BK-GNRAL-PEDCO-000-ST-SP-0005	Specification for Erection of Steel Structures	D02

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27	BK-GNRAL-PEDCO-000-ST-SP-0006	Specification for Fireproofing	D03
Piping & Material			
28	BK-GNRAL-PEDCO-000-PI-SP-0011	Specification of welding of plant piping system & NDT	D00
29	BK-GNRAL-PEDCO-000-PI-SP-0008	Specification for Material Requirements in Sour service	D00
30	BK-GCS-PEDCO-120-PI-SP-0001	Piping Material Specification (PMS)	D01
31	BK-GNRAL-PEDCO-000-PI-DC-0001	Piping Design Criteria	D03
32	BK-GNRAL-PEDCO-000-PI-SP-0005	Specification for Fittings, Flanges, Gaskets and Bolts	D02
33	BK-GNRAL-PEDCO-000-PI-SP-0006	Specification for Painting	D04
34	BK-GNRAL-PEDCO-000-PI-SP-0007	Specification for lining (internal protection of equipment by painting)	D00
35	BK-GNRAL-PEDCO-000-PI-SP-0001	Specification for color coding and marking	D00
36	BK-GNRAL-PEDCO-000-PI-SP-0017	Specification for Cleaning and Flushing	D02
37	BK-GNRAL-PEDCO-000-PI-SP-0019	Specification for Insulation	D02
Drawing			
38	BK-GNRAL-PEDCO-000-ME-DW-0002	Standard Detail Drawing for Pressure Vessel	D01

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ATTACHMENT #2

D01

VENDOR DOCUMENTS MIN. REQUIREMENT

Item No.	Document	With Bid	TIME SCHEDULE			
		Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Final Issue	
					Copies No./Type (1)	Calendar days (3)
MANAGEMENT						
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				
QUALITY						
008	Quality Assurance Manual /Quality Management System Certificate (according to latest rev. of ISO)	4N			6C+E	
009	Preliminary Inspection and Test Plan	4N				
010	Inspection and Test Plan		6C+E		6C+E	
INTERFACE						
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	

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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
ENGINEERING						
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	

	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	PMR FOR PRESSURE VESSELS							شماره صفحه : 23 از 29	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	ME	MR	0003	D01	

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)
031	Developed Drawings (including exploded drawings)		6C+E		6C+E	
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	
PROCUREMENT						
046	Sub Vendor List	4N			6C+E	
047	Sub-Contractor List		6C+E			
048	Packing List					
049	Loose Parts List					

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053-073-9184	PMR FOR PRESSURE VESSELS							شماره صفحه : 24 از 29	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	ME	MR	0003	D01	

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)
MANUFACTURING						
050	Weld and NDT Map		6C+E		6C+E	
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				
TESTING						
056	Hydrostatic / Pneumatic Testing Procedure		6C+E		6C+E	
057	Non-Destructive Testing/Examination Procedures		6C+E		6C+E	
RECORDS, REPORTS & CERTIFICATES						
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-supplier/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	

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>							 شرکت توسعه ترابریان 	
شماره پیمان: 053 – 073 – 9184	PMR FOR PRESSURE VESSELS							شماره صفحه : 25 از 29	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	ME	MR	0003	D01	

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)
069	Hardness Test Reports		6C+E		6C+E	
070	PWHT Charts & Reports, including calibration records of recorders (for each heat treatment)		6C+E		6C+E	
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	
INSTALLATION						
077	Sub-Assembly Documentation		6C+E		6C+E	
078	Sub-Assembly Drawings		6C+E		6C+E	
079	Erection/Installation Manual (if required)		6C+E		6C+E	
080	Name Plate Documents		6C+E		6C+E	
081	Handling, Transportation & Storage Instructions		6C+E		6C+E	
082	Unpacking & Inspection Instructions		6C+E			
083	Preliminary Packing List	4N				
084	Packing List		6C+E		6C+E	
OPERATION & MAINTENANCE						
085	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	136
086	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	136
VENDOR FINAL DOCUMENTS						
087	Vendor Final Book				6C+E	
088	All others documents (if required) will be listed in the order		6C+E			

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	PMR FOR PRESSURE VESSELS							شماره صفحه : 26 از 29	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	ME	MR	0003	D01	

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)

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

D01



 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	PMR FOR PRESSURE VESSELS							شماره صفحه : 27 از 29	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	ME	MR	0003	D01	

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: 053 – 073 – 9184</p>	PMR FOR PRESSURE VESSELS								<p>شماره صفحه : 28 از 29</p>
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	PPL	PEDCO	320	ME	MR	0001	D01	

ATTACHMENT #4

SUB VENDOR LIST

(To be in accordance with MOP)

Item No.	Material Description	Proposed Sub-Vendor

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	PMR FOR PRESSURE VESSELS								شماره صفحه : 29 از 29
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	PPL	PEDCO	320	ME	MR	0001	D01	

ATTACHMENT #5

SPARE PARTS LIST

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

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