



نگهداشت و افزایش تولید میدان نفتی بینک  
فعالیت های روزمینی در بسته های کاری تحت الارض

تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری  
BK05



شماره پیمان:

053 - 073 - 9184

PMR FOR TRANSFORMERS - BK05

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D00	0001	MR	EL	110	PEDCO	BK05	BK

شماره صفحه: 1 از 19

## طرح نگهداشت و افزایش تولید 27 مخزن

## PMR FOR TRANSFORMERS - BK05

نگهداشت و افزایش تولید میدان نفتی بینک

D00	Jul. 2022	IFC	H.Shakiba	M.Fakharian	M.Mehrshad	
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- 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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## 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, required modifications on BK05 work over well (with electric power supply) shall be done.

### GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields Company (NISOC)
PROJECT:	Binak Oilfield Development –Modifications on BK05 Work over Well & Electrification Facilities
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.

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

No.	Item	Description	Total QTY.
1	Distribution Power Transformer	-Oil Immersed, Hermitically Sealed With Pillow Nitrogen -250 KVA, 11/0.42 KV, 50 Hz, DYN11, Z=4% -ONAN -Equipped with cable box & wheels	1

## 3.0 REFERENCE / ATTACHED DOCUMENTS

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

### d. Deviations

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

The proposed deviations/comments list shall include as minimum:

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

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

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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 power transformer of well pads. 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 a safe operation, taking into account process data and installation conditions such as area classification and climatic conditions.

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

#### 5.0 LIMITS OF SUPPLY

##### 5.1 SCOPE OF SUPPLY

###### 5.1.1 MAIN DESCRIPTION

Power Transformer 11/0.42 KV Acc. to “Data Sheets for Power Transformers of Well Pads” “BK-SSGRL-PEDCO-110-EL-DT-0010”.

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.

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- Production schedule indicating main quality manufacturing processes, inspection and tests.
- Qualification of all personnel performing tests to be reviewed by the inspector
- Supplier shall also provide the description of the following quality activities:
  - o Sub suppliers products quality
  - o Quality check and identification of the materials and equipment entering in their manufacturing shop.
- Calibration of test instruments and equipment
- Provide detailed specifications and data sheets.

#### 5.1.2 SPARE PARTS

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

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

#### 5.1.3 OTHER ITEMS

Special tools required for installation and maintenance

### 5.2 EXCLUSIONS

Not Applicable

### 5.3 BATTERY LIMITS

Not Applicable

## 6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the quality control plan issued by the supplier and approved by the PURCHASER before the award of the order. The QC plan shall at least be according to the PROJECT ITP PROCEDURE (Doc. No. ICE-EID-MI-SP01-Rev01) and data sheets (if any).

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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 per clause 1 **“GENERAL DEFINITION”**

## 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.

## 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



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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.

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

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## ATTACHMENT 1

### 11.1 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	D05
<b>Electrical</b>			
2	BK-GNRAL-PEDCO-000-EL-SP-0004	Specification for Transformers	D03
3	BK-SSGRL-PEDCO-110-EL-DT-0010	Data Sheets for Power Transformers of Well Pads	D01
4	BK-SSGRL-PEDCO-110-EL-SL-0002	Single Line Diagram For LV Switchgear of Well Pads	D02
5	BK-SSGRL-PEDCO-110-EL-PY-0008	Electrical Equipment Arrangement Layout for Switchgear Building of Well Pads	D00
<b>General</b>			
6	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی، خرید و ساخت کالا	-
7	E&D-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی و راهبری دوسالانه	-

## ATTACHMENT 2

### 11.2 VENDOR DOCUMENTS MIN. REQUIREMENT

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)
<b>MANAGEMENT</b>						
001	Vendor Document Index and Schedule (See attachment 2)	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			



نگهداشت و افزایش تولید میدان نفتی بینک  
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BK05



شماره پیمان:

053 - 073 - 9184

PMR FOR TRANSFORMERS – BK05

پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	BK05	PEDCO	110	EL	MR	0001	D00

شماره صفحه: 11 از 19

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)
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>HSE</b>						
011	HSE Procedure		6C+E		6C+E	
012	Noise & Vibrations Calculations / Reports (If any)		6C+E		6C+E	
013	ESD Instructions		6C+E		6C+E	
<b>INTERFACE</b>						
014	Electrical & Instrumentation Cable Schedule (for all systems)		6C+E		6C+E	
015	Electrical & Instrumentation Wiring Drawings (for all systems)		6C+E		6C+E	
016	Package Data Sheets	4N	6C+E		6C+E	
020	Reliability, Availability, Maintainability Calculations/Reports	4N	6C+E		6C+E	
021	Performance Curves		6C+E		6C+E	
022	PFD's	4N	6C+E		6C+E	
023	Functional Description		6C+E		6C+E	
024	General Arrangements Drawings	4N	6C+E		6C+E	
025	Mechanical Equipment List	3N	6C+E		6C+E	
026	Electrical Equipment List	3N	6C+E		6C+E	
027	Control, Instrument & Cable List		6C+E		6C+E	
028	Interface Block Diagrams	3N	6C+E		6C+E	
029	Junction Box, Local Panels & Cabinets: wiring diagrams & termination drawings		6C+E		6C+E	

	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری <b>BK05</b>								
	<b>PMR FOR TRANSFORMERS – BK05</b>								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری BK05	صادر کننده PEDCO	تسهیلات 110	رشته EL	نوع مدرک MR	سریال 0001	نسخه D00	شماره صفحه : 12 از 19

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)
030	Functional Logic Diagram		6C+E		6C+E	
031	P & ID's	3N	6C+E		6C+E	
032	Utility Consumption List	3N	6C+E		6C+E	
033	Power Supply Requirements	3N	6C+E		6C+E	
034	Single Line Diagram	3N	6C+E		6C+E	
035	Earthing Details	3N	6C+E		6C+E	
036	Weight / Centre of Gravity Drawings & Data's		6C+E		6C+E	
037	External Static and Dynamic Forces & Moments (present during test, start-up, normal/maximum operation, shutdown, and other conditions of service)		6C+E		6C+E	
038	Wind and Seismic Loads including shear and moment forces on supports and foundation.		6C+E		6C+E	
039	Anchor Bolt Details Drawings (incl. size, type, locations relative to the equipment center-lines in three planes).		6C+E		6C+E	
040	Ladder & Platform Detail Drawing		6C+E		6C+E	
041	Steel Structure Detail Drawing		6C+E		6C+E	
<b>ENGINEERING</b>						
042	Detailed Functional Design Specification		6C+E		6C+E	
043	Detailed Overall Description		6C+E		6C+E	
044	Mechanical Detailed Specifications (one per component)		6C+E		6C+E	
045	Detailed Design / Fabrication Drawings for Equipment & Auxiliary Parts		6C+E		6C+E	
046	Cross Sectional Drawings with Part Lists		6C+E		6C+E	
047	Assembly Drawings		6C+E		6C+E	
048	Design Calculation Notes		6C+E		6C+E	
049	Pressure Parts Calculations		6C+E		6C+E	
050	Piping Detailed Specifications (one per component)		6C+E		6C+E	



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شماره صفحه: 13 از 19

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	Piping Routing		6C+E		6C+E	
052	Valves & Instruments Location Drawings (incl. provisions for operational and maintenance access)		6C+E		6C+E	
053	Electrical Detailed Specifications (one per component)		6C+E		6C+E	
054	Electrical Cables Routing (incl. cable trays & junction boxes)		6C+E		6C+E	
055	Electrical Equipment Location Drawings (incl. provisions for operational and maintenance access)		6C+E		6C+E	
056	Protection Device Operating Curves		6C+E		6C+E	
057	Electrical Control Schematics		6C+E		6C+E	
058	Instrument & Control Detailed Specifications (one per component)		6C+E		6C+E	
059	Instrument cables routing (incl. cable trays & junction boxes)		6C+E		6C+E	
060	Instrument Equipment Location Drawings (incl. provisions for operational and maintenance access)		6C+E		6C+E	
061	Hook-Up Diagrams		6C+E		6C+E	
062	Wiring Loops Diagrams		6C+E		6C+E	
063	Instrument Control Schematics		6C+E		6C+E	
064	Instrument Mounting & Housing Instructions		6C+E		6C+E	
065	Power Distribution & Consumption		6C+E		6C+E	
066	Cause & Effect Charts		6C+E		6C+E	
067	Original Software for Control & Monitoring System		6C+E		6C+E	
068	Software System Specifications		6C+E		6C+E	
069	Approximate Weight & Dimension	4N				
070	Shipping Detail Drawing		6C+E		6C+E	
071	Final Data Book		6C+E		6C+E	



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BK	BK05	PEDCO	110	EL	MR	0001	D00

شماره صفحه: 14 از 19

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)
072	Pressure Loss Calculations		6C+E		6C+E	
073	Lubrication System Detailed Specifications / Drawings		6C+E		6C+E	
074	Cooling System Detailed Specifications/Drawings		6C+E		6C+E	
075	Shaft Sealing System Detailed Specifications/Drawings	4N	6C+E		6C+E	
076	Completed Equipment Datasheets	4N	6C+E		6C+E	
077	Calculation sheets for safety valves, control valves & orifice plate		6C+E		6C+E	
078	Complex loop & automation descriptions, list of alarms & shutdown with set points		6C+E		6C+E	
079	Electrical Equipment Catalogue	3N	6C+E		6C+E	
080	Electrical Interface Block Diagrams		6C+E		6C+E	
081	Local Control Station of motors wiring diagram, termination drawing and general arrangement		6C+E		6C+E	
082	Gear System Detailed Specifications / Drawings		6C+E		6C+E	
083	Coupling System Detailed Specifications / Drawings		6C+E		6C+E	
<b>PROCUREMENT</b>						
084	List of Sub-Suppliers ( table giving: part of equipment, tag no., sub-supplier reference)(5.1.3)	4N			6C+E	
085	Unpriced copy of sub-orders		6C+E			
<b>MANUFACTURING</b>						
086	Weld and NDT Map		6C+E		6C+E	
087	Surface Preparation and Painting Procedures		6C+E		6C+E	
088	Heat Treatment Procedures		6C+E		6C+E	
089	Welding Procedure Specification (including repair procedures).		6C+E		6C+E	



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BK	BK05	PEDCO	110	EL	MR	0001	D00

شماره صفحه: 15 از 19

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)
090	Welder Qualification Procedure		6C+E		6C+E	
091	Fabrication Degree	3N				
<b>TESTING</b>						
092	Hydrostatic / Pneumatic Testing Procedure		6C+E		6C+E	
093	Performance & Functional Test Procedure		6C+E		6C+E	
094	Non-Destructive Testing/Examination Procedures		6C+E		6C+E	
095	Factory Acceptance Test (FAT) Procedure		6C+E		6C+E	
<b>RECORDS, REPORTS &amp; CERTIFICATES</b>						
097	Material Conformity Certificate		6C+E		6C+E	
098	Testing Authority Approval Certificate (if any)		6C+E		6C+E	
099	Hazardous Area Certificates.		6C+E		6C+E	
100	Ingress Protection Certificate		6C+E		6C+E	
101	Conformity Certificates (sub-supplier/equipment)		6C+E		6C+E	
102	Material Certificates Identification Diagram. (cross-reference material location ; certificates for critical components)		6C+E		6C+E	
103	Welding Procedure Qualification Record		6C+E		6C+E	
104	Welder Qualification Records.		6C+E		6C+E	
105	NDT Operator Qualifications		6C+E		6C+E	
106	Detailed NDT Reports		6C+E		6C+E	
107	Weld/ NDT Identification Diagram. (Cross-reference weld locations, WPS, welders, NDT reports).		6C+E		6C+E	
108	Dimensional Control Reports		6C+E		6C+E	
109	Hardness Test Reports		6C+E		6C+E	
110	PWHT Charts & Reports, including calibration records of recorders (for each		6C+E		6C+E	



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BK	BK05	PEDCO	110	EL	MR	0001	D00

شماره صفحه: 16 از 19

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)					
111	Pressure Test Reports / Certificates		6C+E		6C+E	
112	FAT Test Report / Certificates		6C+E		6C+E	
113	Performance Test Report / Certificates		6C+E		6C+E	
114	Noise & Vibration Test Report / Certificates		6C+E		6C+E	
115	Electric Motor Type Test Report (if any)		6C+E		6C+E	
116	Electric Motor Routine Test Report		6C+E		6C+E	
117	Cable Continuity and Resistance Test Reports		6C+E		6C+E	
118	Calibration Curves of Control Equipment		6C+E		6C+E	
119	Calibration Test Certificates		6C+E		6C+E	
120	Surface Preparation & Coating Reports		6C+E		6C+E	
121	Hydrostatic / Pneumatic Testing Certificates		6C+E		6C+E	
122	Welding Consumable Certificate		6C+E		6C+E	
123	Inspection and Test Reports(if any)		6C+E		6C+E	
124	Rust Prevention Report		6C+E		6C+E	
125	Non-Conformities Report		6C+E		6C+E	
<b>INSTALLATION</b>						
126	Sub-Assembly Documentation		6C+E		6C+E	
127	Sub-Assembly Drawings		6C+E		6C+E	
128	Erection/Installation Manual (if required)		6C+E		6C+E	
129	Name Plate Documents		6C+E		6C+E	
130	Handling, Transportation & Storage Instructions		6C+E		6C+E	
131	Unpacking & Inspection Instructions		6C+E			
132	Preliminary Packing List	4N				
132	Packing List		6C+E		6C+E	
<b>OPERATION &amp; MAINTENANCE</b>						



	<b>نگهداشت و افزایش تولید میدان نفتی بینک</b> <b>فعالیت های روزمینی در بسته های کاری تحت الارض</b> <b>تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری</b> <b>BK05</b>								
	<b>PMR FOR TRANSFORMERS – BK05</b>								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری BK05	صادر کننده PEDCO	تسهیلات 110	رشته EL	نوع مدرک MR	سریال 0001	نسخه D00	شماره صفحه: 17 از 19

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)
133	Operating Instructions		6C+E		6C+E	
134	Maintenance Instructions (if required)		6C+E		6C+E	
135	Commissioning & Start-up Manual		6C+E		6C+E	
136	List of Spare Parts Commissioning & Start-up	4N	6C+E		6C+E	
136	List of Spare Parts 2 Years Operation	4N	6C+E		6C+E	
137	List of Special Tools	4N	6C+E		6C+E	
138	Lube Oil Schedule		6C+E		6C+E	
139	Software Manual (incl. Troubleshooting)		6C+E		6C+E	
140	Consumables List		6C+E		6C+E	
141	Function Test Procedure		6C+E		6C+E	
<b>OTHERS</b>						
142	All others documents (if required) will be listed in the order		6C+E			
<b>NOTES:</b> (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						

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک  فعالیت های روزمینی در بسته های کاری تحت الارض  تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری  <b>BK05</b></p>																	
<p>شماره پیمان: 053 - 073 - 9184</p>	<p><b>PMR FOR TRANSFORMERS – BK05</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>BK05</td> <td>PEDCO</td> <td>110</td> <td>EL</td> <td>MR</td> <td>0001</td> <td>D00</td> </tr> </table>	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	BK05	PEDCO	110	EL	MR	0001	D00	<p>شماره صفحه : 18 از 19</p>
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه											
BK	BK05	PEDCO	110	EL	MR	0001	D00											

### ATTACHMENT 3

#### 11.3 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  فعالیت های روزمینی در بسته های کاری تحت الارض  تسهیلات برق رسانی و انجام اصلاحات مربوط به چاه تعمیری  <b>BK05</b></p>																	
<p>شماره پیمان: 053 - 073 - 9184</p>	<p><b>PMR FOR TRANSFORMERS – BK05</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>BK05</td> <td>PEDCO</td> <td>110</td> <td>EL</td> <td>MR</td> <td>0001</td> <td>D00</td> </tr> </table>	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	BK05	PEDCO	110	EL	MR	0001	D00	<p>شماره صفحه: 19 از 19</p>
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه											
BK	BK05	PEDCO	110	EL	MR	0001	D00											

## ATTACHMENT 4

### 11.4 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