

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

.04 - .14 - 4114

PMR FOR CHEMICAL INJECTION PACKAGES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	ME	MR	8000	D05

شماره صفحه: ۱ از ۲۶

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PMR FOR CHEMICAL INJECTION PACKAGES

نگهداشت و افزایش تولید میدان نفتی بینک

Class: 3		CLIENT Doc. Number: F0	Z-709229			
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D00	AUG.2022	IFI	H. Adineh	M.Fakharian	M.Mehrshad	
D01	NOV.2022	IFI	H. Adineh	M.Fakharian	M.Mehrshad	
D02	JUL.2023	IFI	H. Adineh	M.Fakharian	A.M.Mohseni	
D03	FEB.2024	IFI	H.Ghadyani	M.Fakharian	S.Faramarzpour	
D04	JUL.2024	IFI	V.Amjadi	M.Fakharian	M.Sadeghian	
D05	NOV.2024	FI	V.Amjadi	M.Fakharian	M.Sadeghian	

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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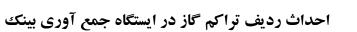
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REVISION RECORD SHEET

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1.0 INTRODUCTION

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

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

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

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT: National Iranian South Oilfields Company (NISOC)

PROJECT: Binak Oilfield Development - Surface Facilities; New

Gas Compressor Station

EPD/EPC CONTRACTOR (GC): Petro Iran Development Company (PEDCO)

EPC CONTRACTOR Joint Venture of : Hirgan Energy – Design & Inspection

/PURCHASER: (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 Chemical Injection Packages 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	PK-2207	Corrosion Inhibitor Package	1

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, the vendor shall be considered to be in full compliance with the relevant document.

The 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.



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4.0 SUBJECT OF THE SUPPLY

The vendor shall supply Chemical Injection Packages that completely assembled and tested. The scope of supply is detailed at para. 5. 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.

5.0 LIMITS OF SUPPLY

5.1 SCOPE OF SUPPLY

5.1.1 MAIN DESCRIPTION

- Corrosion Inhibitor Injection Tank
- Corrosion Inhibitor Injection Mixer
- Four Corrosion Inhibitor Injection Pumps
- Chemical Loading Pump
- Pulsation Dampeners
- Pressure Relief Valves Mounted Within The Package Baseplate
- Calibration Pots
- Piping and All Instrumentation and Wiring within the Package for safe operation.
- On-skid cabling, tray and fittings
- Anti-condensation heaters for motor
- Outdoor MCC for Auxiliaries Electrical Load (if any)
- Outdoor mounted Electrical/control UCP
- Chemical Injection attachments / components as shown in Chemical Injection Package P&ID, data sheets and specified in related specification.
- Structural steel works and supply (including all access platforms and ladders) (If required)
- Design and supply of anchor bolts / nuts with templates and liners.
- All nozzles shall be in accordance with ASME requirements.
- Piping, tubing, manifolds, pipe supports, valves & fitting, etc within the package.
- Preheating and post weld heat treatment (If required) at shop.



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- Complete surface preparation, painting, coating, and galvanizing (if any) at shop.
- Spare parts for erection, pre-commissioning, commissioning, and start-up
- Spare parts for two years of operation
- Special tools for erection, maintenance and normal operation.
- WPS. PQR and WPQ.
- All other necessary components not called for here.
- 5.1.2 Packing including suitable protection for both sea transport and road transport on rough tracks.
- 5.1.3 Preservation suitable for 18 months at outdoor conditions of the site environment.
- 5.1.4 Drawings, documentation and certification in accordance with para. 7.0 of this requisition.
- 5.1.5 Prime vendor to include total package technical co-ordination.
- 5.1.6 First filling of lubricants.
- 5.1.7 Engineering services.

The vendor shall assume overall responsibility for the design, manufacture, assembly, test and performance of all equipment/devices/items supplied as indicated in this requisition. This shall include, but not be limited to:

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



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- 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.

5.1.8 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&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)

5.1.9 OTHER ITEMS

- Special tools required for installation and maintenance including package internals dismantling cradle (a qualified and complete list has to be included in the bid documentation)
- Name plate
- Painting of all items in accordance with "Painting Specification".
- Preparation for shipment
- Packing for sea freight transportation
- Stairs, ladders and walkways if required
- Free access to manufacturing plants for the PURCHASER's inspectors
- Certificates or declarations of conformance (as required) of all Ex-equipment.
- Daily rate for erection supervision (separate price)
- Daily rate for commissioning and start-up supervision (separate price)
- Training for customer's personnel (separate price)
- KOM
- Technical/Clarification meeting
- Pre-Inspection Meeting

5.2 EXCLUSIONS

The following items are excluded by the vendor scope of supply and will be provided by purchaser:

- Concrete foundation (which shall be anyway designed based on vendor's technical data)
- Instrument air supply
- Nitrogen supply (if any)
- Electrical supply



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- Interconnecting power cables among each skid mounted terminal boxes and remote switch gear
- Interconnecting cabling, serial link, between the remotely mounted unit control panel and the process control system in the main control room
- Connection to plant earthing system
- Transport from receiving port to site
- Shelter for Packages
- · Site erection

5.3 BATTERY LIMITS

The battery limits are summarized as follows:

- a) Process
- Inlet and outlet flanges on skid
- b) Instrumentation and control
- terminal strips inside junction boxes at skid edges
- terminal strips inside unit control panel
- terminal strips inside UCP for integrated safety system (ESD and F&G) connections
- terminal strips inside UCP for IRP connections
- c) Electrical
- Incoming Power Supply of Local MCC
- Incoming Power Supply of AC or DC UPS (if Any)
- Earth Bosses on Skids.

6.0 INSPECTION AND TESTS

The equipment shall be inspected and tested in accordance with the Inspection &Test plan (ITP) issued by the vendor and approved by the CLIENT and EPC/EPD CONTRACTOR(GC) before the award of the order. The Inspection & Test plan (ITP) shall be at least according to the Commodity Procurement and Manufacturing Inspection Instruction (Docs .Nos. ICE-EID-MI-SP01-Rev01), Inspection Level of Commodity and Equipment (Docs .Nos. ICE-EID-MI-SP02-Rev01) and Data Sheets. The 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 Test /Site Acceptance Test and Quality Assurance requirements shall be considered in vendor responsibility as per project specification.



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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 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, 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.

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.



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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 (E&C -QC-SP-1)
- 3) 2 years operational spare parts (E&C -QC-SP-1)
- 4) Packing & transportation
- 5) Other fee (if any)



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ATTACHMENT 1



11.1 <u>LIST OF REFERENCE / APPLICABLE DOCUMENTS</u>

No.	Document No.	Document Title	Rev.
Proce	ess		
1	Process Basis of Design	BK-GNRAL-PEDCO-000-PR-DB-0001	D08
2	Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001	D05
3	Process Design Criteria	BK-GNRAL-PEDCO-000-PR-DC-0001	D02
4	P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018	D09
5	Duty Specification for Chemical Injection Package	BK-GCS-PEDCO-120-PR-SP-0004	D04
6	Chemical Consumption List	BK-GCS-PEDCO-120-PR-LI-0005	D05
Mech	anical		
6	Mechanical Design Criteria	BK-GNRAL-PEDCO-000-ME-DC-0001	D04
7	Specification For Chemical Injection Package	BK-GCS-PEDCO-120-ME-SP-0008	D02
8	Specification For Pressure Vessels	BK-GNRAL-PEDCO-000-ME-SP-0001	D03
9	Specification For Atmospheric Above Ground Welded Steel Tanks	BK-GNRAL-PEDCO-000-ME-SP-0002	D03
10	Standard Detail Drawing For Pressure Vessels and Heat Exchangers	BK-GNRAL-PEDCO-000-ME-DW-0001	D02
Pipir	ng & Material		
11	Piping Design Criteria	BK-GNRAL-PEDCO-000-PI-DC-0001	D03
12	Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001	D06
13	Specification For Painting	BK-GNRAL-PEDCO-000-PI-SP-0006	D04
14	Piping Corrosion Study & Material Selection Report	BK-GCS-PEDCO-120-PI-RT-0001	D05
15	Specification For Metallic Pipes	BK-GNRAL-PEDCO-000-PI-SP-0004	D06
16	Specification For Fittings, Flanges, Gaskets and Bolts	BK-GNRAL-PEDCO-000-PL-SP-0005	D03
17	Specification For Welding of Plant Piping System	BK-GNRAL-PEDCO-000-PI-SP-0011	D02
18	Specification For Manual Valves	BK-GNRAL-PEDCO-000-PI-SP-0009	D01
19	Unit Plot Plan Drawing	BK-GCS-PEDCO-120-PI-PY-0001	D05
20	Specification For the Design of Piping in Mechanical Packages	BK-GNRAL-PEDCO-000-PI-SP-0003	D02
21	Specification For Lining (Internal Protection of Equipment by Painting)	BK-GNRAL-PEDCO-000-PI-SP-0007	D03
22	Specification For Piping Cleaning and Flushing	BK-GNRAL-PEDCO-000-PI-SP-0017	D03



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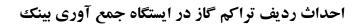
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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
BK	GCS	PEDCO	120	ME	MR	8000	D05		

شماره صفحه: ۱۳ از ۲۶

No.	Document No.	Document Title	Rev.
23	NDT Plan For steel Structures	BK-GNRAL-PEDCO-000-QC-PR-0041	D00
24	Specification For Material Requirements in Sour service	BK-GNRAL-PEDCO-000-PI-SP-0008	D02
25	Specification For Color Coding and Marking	BK-GNRAL-PEDCO-000-PI-SP-0001	D02
26	Specification For Plant Piping Systems Pressure Testing	BK-GNRAL-PEDCO-000-PI-SP-0010	D03
Struc	cture		
27	Structural Design Criteria	BK-GNRAL-PEDCO-000-ST-DC-0001	D02
28	Standard Drawing For Anchor Bolts	BK-GNRAL-PEDCO-000-ST-DW-0002	D02
29	Specification For Concrete Work	BK-GNRAL-PEDCO-000-ST-SP-0001	D03
Instr	ument & Control		
30	Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001	D04
31	Specification For Instrument and Control of package Unit System (PU)	BK-GNRAL-PEDCO-000-IN-SP-0004	D02
32	Specification For Pressure Safety Valves(PSV)	BK-GNRAL-PEDCO-000-IN-SP-0007	D05
33	Specification For On-off /Shut Down Valves(ESDV/MOV)	BK-GNRAL-PEDCO-000-IN-SP-0006	D03
34	Specification For Instrument/F&G Cables	BK-GNRAL-PEDCO-000-IN-SP-0010	D02
35	Instrument Hook-Up Diagram	BK-GCS-PEDCO-120-IN-DG-0002	D04
Elect	rical		
36	Specification For Electrical Requirements of Packaged Units	BK-GNRAL-PEDCO-000-EL-SP-0011	D03
37	Specification For LV Switchgear & Motor Control Centers	BK-GNRAL-PEDCO-000-EL-SP-0001	D03
38	Specification For LV Induction Motors	BK-GNRAL-PEDCO-000-EL-SP-0010	D03
39	Specification For Distribution & Lighting Panels	BK-GNRAL-PEDCO-000-EL-SP-0013	D03
40	Specification For Power & Control Cables	BK-GNRAL-PEDCO-000-EL-SP-0014	D03
41	Data Sheets For LV Induction Motors	BK-GCS-PEDCO-120-EL-DT-0008	D03
Safe	ty		
42	Specification for Hazardous Area Classification	BK-GNRAL-PEDCO-000-SA-SP-0002	D03
43	Hazardous Area Classification Layout	BK-GCS-PEDCO-120-SA-PY-0002	D02
Gene	ral		
44	ICE-EID-MI-SP01-Rev01	دستورالعمل بازرسی، خرید و ساخت کالا	-
45	E&C-QC-SP-1	دستورالعمل تامین قطعات یدکی راه اندازی وراهبری دو سالانه	D01







شماره پیمان:

 $\textbf{.} \Delta \textbf{m} = \textbf{.} \textbf{V} \textbf{m} - \textbf{9} \textbf{1} \Delta \textbf{f}$

	PMR FOR CHEMICAL INJECTION PACKAGES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
BK	GCS	PEDCO	120	ME	MR	8000	D05	

شماره صفحه: ۱۶ از ۲۶

No.	Document No.	Document Title	Rev.
46	ICE-EID-MI-SP02-REV-01	دستورالعمل انتخاب سطح بازرسی کالا و تجهیزات	D01
47	BK-GNRAL-PEDCO-000-QC-PR-0022	Specification For Final Data Book (FDB) Requirements	D00
48	BK-GNRAL-PEDCO-000-QC-PR-0045	Packing, Marking, Transportation Procedure	D00



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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GCS	PEDCO	120	ME	MR	8000	D05			

شماره صفحه: ۱۵ از ۲۶

ATTACHMENT 2

11.2 <u>VENDOR DOCUMENTS MIN. REQUIREMENT</u>

		With Bid		TIME S	CHEDULE	
ė.		with Bid	For Re	view	Final Issue	
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
MANA	GEMENT					
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				
QUALI	TY					
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	
HSE						
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	
INTER	FACE					
014	Electrical & Instrumentation Cable Schedule (for all systems)		6C+E		6C+E	
015	Electrical & Instrumentation Wiring		6C+E		6C+E	



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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GCS	PEDCO	120	ME	MR	8000	D05			

شماره صفحه: ۱٦ از ۲۶

		Wid Bid		TIME SCHEDULE					
ġ		With Bid	For Re	view	Final Issue				
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)			
	Drawings (for all systems)								
016	Package Data Sheets	4N	6C+E		6C+E				
017	Reliability, Availability, Maintainability Calculations/Reports	4N	6C+E		6C+E				
018	Performance Curves		6C+E		6C+E				
019	PFD's	4N	6C+E		6C+E				
020	Functional Description		6C+E		6C+E				
021	General Arrangements Drawings	4N	6C+E		6C+E				
022	Mechanical Equipment List	3N	6C+E		6C+E				
023	Electrical Equipment List	3N	6C+E		6C+E				
024	Control, Instrument & Cable List		6C+E		6C+E				
025	Interface Block Diagrams	3N	6C+E		6C+E				
026	Junction Box, Local Panels & Cabinets: wiring diagrams & termination drawings		6C+E		6C+E				
027	Functional Logic Diagram		6C+E		6C+E				
028	P & ID's	3N	6C+E		6C+E				
029	Utility Consumption List	3N	6C+E		6C+E				
030	Power Supply Requirements	3N	6C+E		6C+E				
031	Single Line Diagram	3N	6C+E		6C+E				
032	Earthing Details	3N	6C+E		6C+E				
033	Weight / Centre of Gravity Drawings & Data's		6C+E		6C+E				
034	External Static and Dynamic Forces & Moments (present during test, start-up, normal/maximum operation, shutdown, and other conditions of service)		6C+E		6C+E				
035	Wind and Seismic Loads including shear and moment forces on supports and foundation.		6C+E		6C+E				
036	Anchor Bolt Details Drawings (incl. size, type, locations relative to the equipment center-lines in three planes).		6C+E		6C+E				



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	PMR FOR CHEMICAL INJECTION PACKAGES									
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GCS	PEDCO	120	ME	MR	8000	D05			

شماره صفحه: ۱۷ از ۲۶

		With Did		TIMES	CHEDULE	
ġ		With Bid	For Re	view	Fina	l Issue
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
037	Ladder & Platform Detail Drawing		6C+E		6C+E	
0038	Steel Structure Detail Drawing		6C+E		6C+E	
ENGIN	EERING					
039	Detailed Functional Design Specification		6C+E		6C+E	
040	Detailed Overall Description		6C+E		6C+E	
041	Mechanical Detailed Specifications (one per component)		6C+E		6C+E	
042	Detailed Design / Fabrication Drawings for Equipment & Auxiliary Parts		6C+E		6C+E	
043	Cross Sectional Drawings with Part Lists		6C+E		6C+E	
044	Assembly Drawings		6C+E		6C+E	
045	Design Calculation Notes		6C+E		6C+E	
046	Pressure Parts Calculations		6C+E		6C+E	
047	Painting Operator Qualification Record		6C+E		6C+E	
048	Piping Detailed Specifications (one per component)		6C+E		6C+E	
049	Piping Routing		6C+E		6C+E	
050	Valves & Instruments Location Drawings (incl. provisions for operational and maintenance access)		6C+E		6C+E	
051	Electrical Detailed Specifications (one per component)		6C+E		6C+E	
052	Electrical Cables Routing (incl. cable trays & junction boxes)		6C+E		6C+E	
053	Electrical Equipment Location Drawings (incl. provisions for operational and maintenance access)		6C+E		6C+E	
054	Protection Device Operating Curves		6C+E		6C+E	
055	Electrical Control Schematics		6C+E		6C+E	
056	Instrument & Control Detailed Specifications (one per component)		6C+E		6C+E	
057	Instrument cables routing (incl. cable		6C+E		6C+E	



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شماره پیمان:

 $\bullet \Delta T = \bullet V T - 91 \Lambda F$

	PMR FOR CHEMICAL INJECTION PACKAGES									
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GCS	PEDCO	120	ME	MR	8000	D05			

شماره صفحه: ۱۸ از ۲۶

		Maria Bill		TIME S	CHEDULE	
ġ		With Bid	For Re	view	Final Issue	
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
	trays & junction boxes)					
058	Instrument Equipment Location Drawings (incl. provisions for operational and maintenance access)		6C+E		6C+E	
059	Hook-Up Diagrams		6C+E		6C+E	
060	Wiring Loops Diagrams		6C+E		6C+E	
061	Instrument Control Schematics		6C+E		6C+E	
062	Instrument Mounting & Housing Instructions		6C+E		6C+E	
063	Power Distribution & Consumption		6C+E		6C+E	
064	Cause & Effect Charts		6C+E		6C+E	
065	Original Software for Control & Monitoring System		6C+E		6C+E	
066	Software System Specifications		6C+E		6C+E	
067	Approximate Weight & Dimension	4N				
068	Shipping Detail Drawing		6C+E		6C+E	
069	Final Data Book		6C+E		6C+E	
070	Pressure Loss Calculations		6C+E		6C+E	
071	Lubrication System Detailed Specifications / Drawings		6C+E		6C+E	
072	Cooling System Detailed Specifications/Drawings		6C+E		6C+E	
073	Shaft Sealing System Detailed Specifications/Drawings	4N	6C+E		6C+E	
074	Completed Equipment Datasheets	4N	6C+E		6C+E	
075	Calculation sheets for safety valves, control valves & orifice plate		6C+E		6C+E	
076	Complex loop & automation descriptions, list of alarms & shutdown with set points		6C+E		6C+E	
077	Electrical Equipment Catalogue	3N	6C+E	·	6C+E	
078	Electrical Interface Block Diagrams		6C+E		6C+E	
079	Local Control Station of motors wiring diagram, termination drawing and		6C+E		6C+E	



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



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	PMR FOR CHEMICAL INJECTION PACKAGES									
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GCS	PEDCO	120	ME	MR	8000	D05			

شماره صفحه: ۱۹ از ۲۶

		With Did		TIMES	SCHEDULE	
ġ.		With Bid	For Re	view	Fina	l Issue
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)
	general arrangement					
080	Gear System Detailed Specifications / Drawings		6C+E		6C+E	
081	Coupling System Detailed Specifications / Drawings		6C+E		6C+E	
PROC	UREMENT					
082	List of Sub-vendors (table giving: part of equipment, tag no., sub-vendor reference)(5.1.3)	4N			6C+E	
083	Unpriced copy of sub-orders		6C+E			
MANU	FACTURING					
084	Weld and NDT Map		6C+E		6C+E	
085	Surface Preparation and Painting Procedures		6C+E		6C+E	
086	Heat Treatment Procedures		6C+E		6C+E	
087	Welding Procedure Specification (including repair procedures).		6C+E		6C+E	
088	Welder Qualification Procedure		6C+E		6C+E	
089	Fabrication Degree	3N				
TESTII	NG	T .				
090	Hydrostatic / Pneumatic Testing Procedure		6C+E		6C+E	
091	Performance & Functional Test Procedure		6C+E		6C+E	
092	Non-Destructive Testing/Examination Procedures		6C+E		6C+E	
093	Factory Acceptance Test (FAT) Procedure		6C+E		6C+E	
094	SAT Procedure		6C+E		6C+E	
RECO	RDS, REPORTS & CERTIFICATES					
095	Material Conformity Certificate		6C+E		6C+E	
096	Testing Authority Approval Certificate (if any)		6C+E		6C+E	



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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GCS	PEDCO	120	ME	MR	8000	D05			

شماره صفحه: ۲۰ از ۲۶

		Maria Bill	TIME SCHEDULE				
ġ		With Bid	For Review		Final Issue		
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)	
097	Hazardous Area Certificates.		6C+E		6C+E		
098	Ingress Protection Certificate		6C+E		6C+E		
099	Conformity Certificates (subvendor/equipment)		6C+E		6C+E		
100	Material Certificates Identification Diagram. (cross-reference material location; certificates for critical components)		6C+E		6C+E		
101	Welding Procedure Qualification Record		6C+E		6C+E		
102	Welder Qualification Records.		6C+E		6C+E		
103	NDT Operator Qualifications		6C+E		6C+E		
104	Detailed NDT Reports		6C+E		6C+E		
105	Weld/ NDT Identification Diagram. (Cross-reference weld locations, WPS, welders, NDT reports).		6C+E		6C+E		
106	Dimensional Control Reports		6C+E		6C+E		
107	Hardness Test Reports		6C+E		6C+E		
108	PWHT Charts & Reports, including calibration records of recorders (for each heat treatment)		6C+E		6C+E		
109	Pressure Test Reports / Certificates		6C+E		6C+E		
110	FAT Test Report / Certificates		6C+E		6C+E		
111	Performance Test Report / Certificates		6C+E		6C+E		
112	Noise & Vibration Test Report / Certificates		6C+E		6C+E		
113	Electric Motor Type Test Report (if any)		6C+E		6C+E		
114	Electric Motor Routine Test Report		6C+E		6C+E		
115	Cable Continuity and Resistance Test Reports		6C+E		6C+E		
116	Calibration Curves of Control Equipment		6C+E		6C+E		
117	Calibration Test Certificates		6C+E		6C+E		
118	Surface Preparation & Coating Reports		6C+E		6C+E		
119	Hydrostatic / Pneumatic Testing		6C+E		6C+E		



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

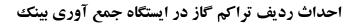
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PMR FOR CHEMICAL INJECTION PACKAGES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	l
BK	GCS	PEDCO	120	ME	MR	8000	D05	

شماره صفحه: ۲۱ از ۲۶

		Wat Bill	TIME SCHEDULE				
ġ		With Bid	For Review		Fina	l Issue	
Item No.	Document	Copies No./Type (7)	Copies No./Type (1)	Solar days (2)	Copies No./Type (1)	Calendar days (3)	
	Certificates						
120	Welding Consumable Certificate		6C+E		6C+E		
121	Inspection and Test Reports(if any)		6C+E		6C+E		
122	Rust Prevention Report		6C+E		6C+E		
123	Non-Conformities Report		6C+E		6C+E		
INSTA	LLATION						
124	Sub-Assembly Documentation		6C+E		6C+E		
125	Sub-Assembly Drawings		6C+E		6C+E		
126	Erection/Installation Manual (if required)		6C+E		6C+E		
127	Name Plate Documents		6C+E		6C+E		
128	Handling, Transportation & Storage Instructions		6C+E		6C+E		
129	Unpacking & Inspection Instructions		6C+E				
130	Preliminary Packing List	4N					
131	Packing List		6C+E		6C+E		
OPERA	ATION & MAINTENANCE						
132	Operating Instructions		6C+E		6C+E		
133	Maintenance Instructions (if required)		6C+E		6C+E		
134	Commissioning & Start-up Manual		6C+E		6C+E		
135	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		
136	List of Special Tools	4N	6C+E		6C+E		
137	Lube Oil Schedule		6C+E		6C+E		
138	Software Manual (incl. Troubleshooting)		6C+E		6C+E		
139	Consumables List		6C+E		6C+E		
140	Function Test Procedure		6C+E		6C+E		
OTHER	RS						
141	All others documents (if required) will be		6C+E				







شماره پیمان:

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PMR FOR CHEMICAL INJECTION PACKAGES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
BK	GCS	PEDCO	120	ME	MR	8000	D05	

شماره صفحه: ۲۲ از ۲۶

Item No.	Document	With Bid		TIME SCHEDULE			
		With Bid	For Review		Final Issue		
		Copies	Copies	Solar	Copies	Calendar	
		No./Type	No./Type		No./Type (1)	days (3)	
		(1)	(' '	(2)	(')	(0)	
	listed in the order						

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



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PINIR FOR CHEMICAL INJECTION PACKAGES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
BK	GCS	PEDCO	120	ME	MR	8000	D05	

شماره صفحه: ۲۳ از ۲۶

ATTACHMENT 3

Requisition No.:

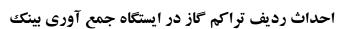
Equipment No.:

Description:

11.3 <u>DEVIATIONS / EXCEPTIONS TO JOB SPECIFICATION</u>

ason for Effect on base proposal if CONTRACTOR rejects exception







پيمان.	ساره

.04 - . 14 - 9114

PMR FOR CHEMICAL INJECTION PACKAGES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
BK	GCS	PEDCO	120	ME	MR	8000	D05	

شماره صفحه: ۲۶ از ۲۶

ATTACHMENT 4

Requisition No.:

Description:

11.4 ALTERNATIVES TO JOB SPECIFICATION

Equipment No.:							
Item No.	Job Specification No. & Paragraph No.	Requirements of Job Specification	Description of Proposed Alternative	Reason for Proposed Alternative			