



طرح نگهداشت و افزایش تولید ۲۷ مخزن

**DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF
EXISTING ELECT. BUILDING**

نگهداشت و افزایش تولید میدان نفتی بینک

D01	JAN. 2025	IFA	K.Ahmadi	M.Fakharian	S.Faramarzpour	
D00	DEC. 2023	IFC	K.Ahmadi	M.Fakharian	S.Faramarzpour	
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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

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک																									
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REVISION RECORD SHEET

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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک																									
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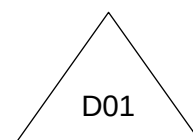
1.0 INTRODUCTION

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.

GENERAL DEFINITION

The following terms shall be used in this document.



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

2.0 SCOPE

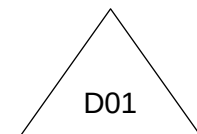
The scope of this document is to prepare minimum requirement in order to provide "Data Sheets for Main HVAC Equipment "and is issued for Detail Design Phase of project.

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BK	GCS	PEDCO	120	HV	DT	0002	D01																			

3.0 NORMATIVE REFERENCES

3.1 LOCAL CODES AND STANDARDS

- IPS Iranian petroleum standards
- INBC Iranian National Building Code



3.2 INTERNATIONAL CODES AND STANDARDS

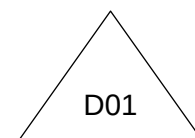
- ASTM American Society for Testing Materials Relevant Parts
- API 610 Centrifugal Pumps for General Refinery Service, 10th Edition
- ISO 15156 Petroleum and Natural Gas Industries. Materials for use in H2S Containing Environments in Oil and Gas Production
- AMCA Air Movement and Control Association
- ANSI American National Standards Institute.
- ASHRAE American Society of Heating, Refrigeration and Air-conditioning Engineer
- ASTM American Society for Testing and Material
- BOCA Building Officials and Code Administrators international
- BS British Standards
- CIBSE Chartered Institute of Building Services Engineers.
- NFPA National fire protection association
- SBCCI Southern Building Code Congress International
- SMACNA Sheet Metal and Air Conditioning Contractors' National Association
- AWWA American Water Works Association
- ASME The American Society of Mechanical Engineers

Note: The latest issued or revised edition of all above mentioned codes and standards shall be considered as reference.

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BK	GCS	PEDCO	120	HV	DT	0002	D01																			

3.3 ENVIRONMENTAL DATA

- ▶ Latitude 29° 73' N
- ▶ Longitude 50° 35' E
- ▶ Elevation 10 m
- ▶ Summer dry bulb temperature : 41° C
- ▶ Summer wet bulb temperature : 30.5° C
- ▶ Summer daily range temperature : 15.0° C
- ▶ Winter dry bulb temperature : 6° C
- ▶ Winter relative humidity : 78%



Refer to "Process Basis of Design; Doc. No BK-GNRAL-PEDCO-000-PR-DB-0001.

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BK	GCS	PEDCO	120	HV	DT	0002	D01																			

4.0 DATA SHEET FOR AIR CONDITIONING UNIT (SPLIT UNIT)

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UNIT IDENTITY			REF. CODE FOR EQUIPMENT		
			TYPE	BLDG. NAME	TAG NO.
			Wall Mounted Type Split Unit	Elect. Building	202-SUI/SUO-GCSEB-01
Descriptions			Technical Requirement		Manufacturer Proposal
Service Area			Capacitor Bank		
Quantity			2 Set (2 Indoor & 2 Outdoor)		
Operation Condition			1 Duty / 1 Standby		
Design Condition	Summer	DB. Temp. (°C)	41.0		
		WB. Temp. (°C)	30.5		
	Winter	DB. Temp. (°C)	6.0		
	Elevation (M)		10.0		
Ambient Temperature For Condenser Air Inlet (°C)			50.0		
Total Actual Cooling Capacity @ Ambient Temp./ Each (Kw- Btu/Hr)			8.49 - 28980		
Heating Capacity / Each (Kw- Btu/Hr)			0.66 - 2258		
Heat Pump			Yes		
Supply Air Flow (Cmh)			(*)		
Indoor Air Temp. (°C)		Summer	30		
		Winter	10		
Power Consumption (Kw)			(*)		
Electric Power			230/1/50		
Size (Cm) Indoor - Outdoor			(*)		
Weight (Kg) Indoor - Outdoor			(*)		
Filter			Washable or Replacement Filter		
Refrigerant Type			R410A or R134A		
Fan Motor IP		Indoor Unit	IP-44		
		Outdoor Unit	IP-44		
Fan Motor Shall Be Explosion Proof			No		
Maximum Allowable Noise Level dB.		Indoor Unit	45		
		Outdoor Unit	65		
Area Classification			Non-Hazardous		
Model			(*)		
Dimensions & Weight (Mm – Kg)			(*)		
Remark s:			With Thermostat & All Standard Accessory-T3		

Note: Cooling capacity shall be rated for site outdoor temperature and indoor set point.

(*)To Be Specified By Vendor

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UNIT IDENTITY			REF. CODE FOR EQUIPMENT		
			TYPE	BLDG. NAME	TAG NO.
			Cassette Type Split Unit	Elect. Building	202-SUI/SUO-GCSEB-02
Descriptions			Technical Requirement		Manufacturer Proposal
Service Area			High Voltage Room		
Quantity			4 Set (4 Indoor & 4 Outdoor)		
Operation Condition			2 Duty / 2 Standby		
Design Condition	Summer	DB. Temp. (°C)	41.0		
		WB. Temp. (°C)	30.5		
	Winter	DB. Temp. (°C)	6.0		
		Elevation (M)		10.0	
Ambient Temperature For Condenser Air Inlet (°C)			50.0		
Total Actual Cooling Capacity @ Ambient Temp./ Each (Kw- Btu/Hr)			9.06 - 30955		
Heating Capacity / Each (Kw- Btu/Hr)			0.50 - 1736		
Heat Pump			Yes		
Supply Air Flow (Cmh)			(*)		
Indoor Air Temp. (°C)	Summer		30		
	Winter		10		
Power Consumption (Kw)			(*)		
Electric Power			400/3/50		
Size (Cm) Indoor - Outdoor			(*)		
Weight (Kg) Indoor - Outdoor			(*)		
Filter			Washable or Replacement Filter		
Refrigerant Type			R410A or R134A		
Fan Motor IP	Indoor Unit		IP-44		
	Outdoor Unit		IP-44		
Fan Motor Shall Be Explosion Proof			No		
Maximum Allowable Noise Level dB.	Indoor Unit		45		
	Outdoor Unit		65		
Area Classification			Non-Hazardous		
Model			(*)		
Dimensions & Weight (Mm – Kg)			(*)		
Remark s:			With Thermostat & All Standard Accessory-T3		

Note: Cooling capacity shall be rated for site outdoor temperature and indoor set point.

(*)To Be Specified By Vendor

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BK	GCS	PEDCO	120	HV	DT	0002	D01																			

UNIT IDENTITY			REF. CODE FOR EQUIPMENT		
			TYPE	BLDG. NAME	TAG NO.
Descriptions			Technical Requirement		Manufacturer Proposal
Service Area			Low Voltage Room		
Quantity			4 Set (4 Indoor & 4 Outdoor)		
Operation Condition			2 Duty / 2 Standby		
Design Condition	Summer	DB. Temp. (°C)	41.0		
		WB. Temp. (°C)	30.5		
	Winter	DB. Temp. (°C)	6.0		
		Elevation (M)		10.0	
Ambient Temperature For Condenser Air Inlet (°C)			50.0		
Total Actual Cooling Capacity @ Ambient Temp./ Each (Kw- Btu/Hr)			15.30 - 52256		
Heating Capacity / Each (Kw- Btu/Hr)			0.47 - 1601		
Heat Pump			Yes		
Supply Air Flow (Cmh)			(*)		
Indoor Air Temp. (°C)		Summer	30		
		Winter	10		
Power Consumption (Kw)			(*)		
Electric Power			400/3/50		
Size (Cm) Indoor - Outdoor			(*)		
Weight (Kg) Indoor - Outdoor			(*)		
Filter			Washable or Replacement Filter		
Refrigerant Type			R410A or R134A		
Fan Motor IP		Indoor Unit	IP-44		
		Outdoor Unit	IP-44		
Fan Motor Shall Be Explosion Proof			No		
Maximum Allowable Noise Level dB.		Indoor Unit	45		
		Outdoor Unit	65		
Area Classification			Non-Hazardous		
Model			(*)		
Dimensions & Weight (Mm – Kg)			(*)		
Remark s:			With Thermostat & All Standard Accessory-T3		

Note: Cooling capacity shall be rated for site outdoor temperature and indoor set point.
(*)To Be Specified By Vendor.

D01

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING ELECT. BUILDING</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>HV</td><td>DT</td><td>0002</td><td>D01</td></tr></table>	DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING ELECT. BUILDING								پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	HV	DT	0002	D01	شماره صفحه: ۱۰ از ۱۱
DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING ELECT. BUILDING																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	HV	DT	0002	D01																			

5.0 DATA SHEET FOR FAN FILTER UNIT

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Horizontal	Elect. Building	1202-FFU-GCSEB-01
Descriptions		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Service Area		Capacitor Bank + CO2 Room		
Quantity		1		
Type		Horizontal Fan Filter Unit		
Service		Supply Air		
Flow Rate (L/S)		181.3		
External Static Pressure (Pa)		166.474		
Maximum Fan RPM		1500		
Filter	Sand Tarp Louver	Yes (Before Intake Damper)		
	V-Type Aluminum Filter	Yes (Before Fan)		
	Bag Filter (95% Efficiency)	Yes (After Fan)		
Motorize Damper (With All Accessories)	Intake	Opposite Blade (**)		
	Outlet	No		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	230/1/50		
	Protection Class	IP-45		
Fan Efficiency (%)		(*)		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Noise Level @ 1 Meter From Unit (db)		65 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		Equipped With Bird Mesh		

Note: Total Pressure Drop (External + Internal) Shall Be Specified By Vendor. Fan Motor Shall Be Selected for Maximum Power Plus 20% Spare Capacity.

(*)To Be Specified By Vendor.

(**)Actuated for Shutting off by F&G System Signal.

D01

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
شماره پیمان:	DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING ELECT. BUILDING							شماره صفحه ۱۱ از ۱۱	
۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	HV	DT	0002		D01

6.0 DATA SHEET FOR EXHAUST FAN

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Utility Ex. Fan	Elect. Building	1202-EF-GCSEB-01
Descriptions		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Service Area		Capacitor Bank + CO2 Room		
Quantity		1		
Type		Utility Ex. Fan		
Service		Exhaust		
Flow Rate (L/S)		181.3		
External Static Pressure (Pa)		189.118		
Maximum Fan RPM		(*)		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	230/1/50		
	Protection Class	IP-45		
Fan Efficiency (%)		1500		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Noise Level @ 1 Meter From Unit (db)		65 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		Equipped With Bird Mesh and Gravity Damper		

Note: Total Pressure Drop (External + Internal) Shall Be Specified By Vendor. Fan Motor Shall Be Selected for Maximum Power Plus 20% Spare Capacity.

(*)To Be Specified By Vendor.

D01