

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

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض عمومی و مشترک																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING</th></tr><tr><th>نسخه</th><th>سریال</th><th>نوع مدرک</th><th>رشته</th><th>تسهیلات</th><th>صادر کننده</th><th>بسته کاری</th><th>پروژه</th></tr><tr><td>D01</td><td>0003</td><td>DT</td><td>HV</td><td>120</td><td>PEDCO</td><td>GCS</td><td>BK</td></tr></table>	DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	D01	0003	DT	HV	120	PEDCO	GCS	BK	شماره صفحه ۲: از ۱۳
DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
D01	0003	DT	HV	120	PEDCO	GCS	BK																			

REVISION RECORD SHEET

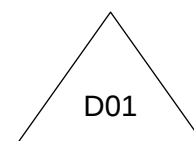
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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																	
D01	0003	DT	HV	120	PEDCO	GCS	BK																	

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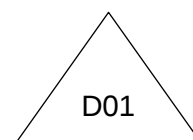
1.0 INTRODUCTION

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

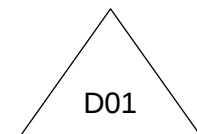
The scope of this document is to prepare minimum requirement in order to provide "Data Sheets for Main HVAC Equipment "and is issued for Detail Design Phase of project.

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BK	GCS	PEDCO	120	HV	DT	0003	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

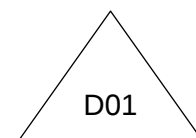
- ASTM American Society for Testing Materials Relevant Parts
- API 610 Centrifugal Pumps for General Refinery Service, 10th Edition
- ISO 15156 Petroleum and Natural Gas Industries. Materials for use in H2S Containing Environments in Oil and Gas Production
- AMCA Air Movement and Control Association
- 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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پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	HV	DT	0003	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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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING							شماره صفحه: ۷ از ۱۳
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	GCS	PEDCO	120	HV	DT	0003	D01

4.0 DATA SHEET FOR SPLIT PACKAGE UNIT

D01

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Split Package Unit	Control Building (Existing & Extension)	1202-PU-GCSCB-01
DESCRIPTIONS		Technical Requirement		Manufacturer Proposal
Location	Condensing Unit	Control Building Roof		
	Air Handling Unit	Control Building HVAC Room		
Quantity		1+1 (Duty + Standby)		
Ambient Design Condition	Summer DB. Temp (°C)	41.0		
	Summer WB. Temp (°C)	30.5		
	Winter DB. Temp (°C)	6.0		
	Elevation (M)	10		
Ambient Temperature For Condenser Air Inlet		50		
Total Actual Cooling Load Capacity (Kw)		159.0 * 1.1 (+ 10% Over Capacity)= 174.9		
Sensible Cooling Load Capacity (Kw)		81.1		
Entering Air DB / WB (°C)		32.1 / 24.8		
Leaving Air DB / WB (°C)		14.4 / 14.0		
Outdoor Air DB / WB (°C)		41.0 / 30.5		
Cooling Coil Type		DX		
Heating Load Capacity (Kw)		52.4 * 1.1 (+ 10% Over Capacity)= 57.64		
Entering Air Db (Heating Coil) (°C)		14.5°C		
Leaving Air Db (Heating Coil) (°C)		35.0°C		
Heating Coil Type		Electrical		
Type Of Heating Coil Capacity Control		SCR (Thyristor Type)		
AHU Section Supply Air Flow (L/S)		4520		
AHU Section Return Air Flow (L/S)		2555		
AHU Section Fresh Air Flow (L/S)		1965		
Unit Type		Split Type		
Compressor Type		Reciprocating / Screw		
Type Of Capacity Control		Unloader (Reciprocating)/Step Control (Screw)		
Condensing Temp (°C)		60 (*)		
AHU Section Fan Type		Centrifugal		
External Static Pressure (Pa)		579.2		

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DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	HV	DT	0003	D01																			

Total Static Pressure (Pa)		(*)	
Cooling DX Coil Material		Copper Tube, Aluminum Fine (Cooling DX Coil Coated With Anti-Corrosion Material)	
Supply Air Section		Equipped With Motorized Damper	
Mixing Box Section		Equipped With Motorized Damper	
Filter Section	Pre-Filter (Before Fan)	Pf1: Al Washable Filter, Pf2: Efficiency G3 (85%)	
	Final-Filter (After Fan)	Efficiency F7 (85%)	
Total Power Consumption (Kw)		(*)	
Electric Power		400-420 V / 3 PH / 50 HZ	
No. Of Segment		2	
Dimension (Cm) W*L*H	AHU Section	(*)	
	Condensing Unit Section	(*)	
Weight (Kg)	AHU Section	(*)	
	Condensing Unit Section	(*)	
Refrigerant Type		R-134 A / R-410 A	
Fan Motor IP	Supply Fan	Ip-45	
	Condenser Fan	IP-45	
Compressor IP		Ip-45	
Maximum Allowable Noise Level		Indoor: 40-45 db. Outdoor: 65 db.	
Model		(*)	
Remarks:		(*) To Be Specified By Manufacturer	

D01

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	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	PEDCO	120	HV	DT	0003	D01	

5.0 DATA SHEET FOR EXHAUST FAN

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Utility Ex. Fan	Control Building (Existing & Extension)	1202-EF-GCSCB-01
DESCRIPTIONS		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Quantity		1		
Type		Utility Ex. Fan		
Location		Locker + Prayer Room + Store		
Service		Exhaust		
Flow Rate (L/S)		420		
External Static Pressure (Pa)		238		
Maximum Fan RPM		(*)		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	400/3/50		
	Protection Class	IP-45		
Fan Efficiency (%)		(*)		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Outside/ Inside Noise Level @ 1 Meter From Unit (db)		45 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		(*) To Be Specified By Vendor		

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	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سریال	
	BK	GCS	PEDCO	120	HV	DT	0003	D01

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Utility Ex. Fan	Control Building (Existing & Extension)	1202-EF-GCSCB-02
DESCRIPTIONS		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Quantity		1		
Type		Utility Ex. Fan		
Location		Pantry + Dining Room		
Service		Exhaust		
Flow Rate (L/S)		420		
External Static Pressure (Pa)		249.172		
Maximum Fan RPM		(*)		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	400/3/50		
	Protection Class	IP-45		
Fan Efficiency (%)		(*)		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Outside/ Inside Noise Level @ 1 Meter From Unit (db)		45 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		(*) To Be Specified By Vendor		

D01

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	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	PEDCO	120	HV	DT	0003	D01	

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Utility Ex. Fan	Control Building (Existing & Extension)	1202-EF-GCSCB-03
DESCRIPTIONS		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Quantity		2 (1 Duty + 1 Standby)		
Type		Utility Ex. Fan		
Location		Battery Room (Extension)		
Service		Exhaust		
Flow Rate (L/S)		520		
External Static Pressure (Pa)		218.30		
Maximum Fan RPM		(*)		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	400/3/50		
	Protection Class	IP-45		
Fan Efficiency (%)		(*)		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Outside/ Inside Noise Level @ 1 Meter From Unit (db)		45 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		(*) To Be Specified By Vendor		

D01

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض عمومی و مشترک																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL 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>0003</td><td>D01</td></tr></table>	DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING								پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	HV	DT	0003	D01	شماره صفحه: ۱۲ از ۱۳
DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	HV	DT	0003	D01																			

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Utility Ex. Fan	Control Building (Existing & Extension)	1202-EF-GCSCB-04
DESCRIPTIONS		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Quantity		2 (1 Duty + 1 Standby)		
Type		Utility Ex. Fan		
Location		Battery Room (Existing)		
Service		Exhaust		
Flow Rate (L/S)		90		
External Static Pressure (Pa)		213.60		
Maximum Fan RPM		(*)		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	400/3/50		
	Protection Class	IP-45		
Fan Efficiency (%)		(*)		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Outside/ Inside Noise Level @ 1 Meter From Unit (db)		45 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		(*) To Be Specified By Vendor		

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING CONTROL BUILDING							شماره صفحه: ۱۳ از ۱۳	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	HV	DT	0003		D01

UNIT IDENTITY		REF. CODE FOR EQUIPMENT		
		TYPE	BLDG. NAME	TAG NO.
		Utility Ex. Fan	Control Building (Existing & Extension)	1202-EF-GCSCB-05
DESCRIPTIONS		Technical Requirement		Manufacturer Proposal
Unit Location		Roof		
Quantity		1		
Type		Inline Axial Ex. Fan		
Location		Lavatory + Shower + Locker (Existing)		
Service		Exhaust		
Flow Rate (L/S)		335		
External Static Pressure (Pa)		217.53		
Maximum Fan RPM		(*)		
Motor	Type	Electrical Motor		
	Horse Power	(*)		
	Voltage / Phase / Cycle	400/3/50		
	Protection Class	IP-45		
Fan Efficiency (%)		(*)		
Type Of Bearings		Direct Driven Electric Motor		
Maximum Sound Level (db.)		(*)		
Allowable Outside/ Inside Noise Level @ 1 Meter From Unit (db)		45 (*)		
Approximate Overall Dimensions (Mm)		(*)		
Approximate Operating Weight (Kg)		(*)		
Casing Material		(*)		
Propeller Material		(*)		
Fan Motor Shall Be Explosion Proof		No		
Model		(*)		
Remarks :		(*) To Be Specified By Vendor		

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