



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



شماره پیمان:

053 - 073 - 9184

DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D01	0016	DT	EL	120	PEDCO	GCS	BK

شماره صفحه: 1 از 6

## طرح نگهداشت و افزایش تولید 27 مخزن

## DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D01	Jul. 2022	IFA	H.Shakiba	M.Fakharian	M.Mehrshad	
D00	May. 2022	IFC	H.Shakiba	M.Fakharian	M.Mehrshad	

Class:2

CLIENT Doc. Number: F0Z-709032

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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REVISION RECORD SHEET

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2	X	X			
3	X	X			
4	X	X			
5	X	X			
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BK	GCS	PEDCO	120	EL	DT	0016	D01

شماره صفحه: 3 از 6

**Technical Data Sheet for Distribution & Lighting Panels**

ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
<b>1</b>	<b>SITE CONDITION</b>		
1.1	Location	Binak Oilfield in Bushehr Province	
1.2	Max. Outdoor Ambient Temperature	52°C	
1.3	Min. Outdoor Ambient Temperature	5°C	
1.4	Direct Sunlight Temperature	85°C	
1.5	Maximum Relative Outdoor Humidity	100%	
1.6	Altitude	12.5 m Above Sea Level	
1.7	Installation Method	Direct Buried Cable	
<b>2</b>	<b>GENERAL INFORMATION</b>		
2.1	Tag Numbers	GCS-400-NDP-01 (Process Area Normal Distribution Panel (Outdoor-Safe)) GCS-400-EDP-01 (Process Area Emergency Distribution Panel (Outdoor-Safe)) GCS-400-NDP-02 (Utility Area Normal Distribution Panel (Outdoor-Safe)) GCS-400-EDP-02 (Utility Area Emergency Distribution Panel (Outdoor-Safe)) GCS-400-NDP-CRM (Control Room Normal Distribution Panel (Indoor-Safe)) GCS-400-EDP-CRM (Control Room Emergency Distribution Panel (Indoor-Safe)) GCS-400-NDP-SWHVAC (Switchgear HVAC Panel (Indoor-Safe))	
2.2	Quantity	1 Set of Each In Item 2.1	
2.3	Application Standard	IPS-E-EL-100, IPS-M-EL-143(3) IPS-M-EL-161(2)	
2.4	Manufacturer	By Vendor	
2.5	Related Document	Distribution & Lighting Panels Single Line Diagram (BK-GCS-PEDCO-120-EL-SL-0004)	
<b>3</b>	<b>ELECTRICAL DATA</b>		
3.1	System Voltage/ Frequency	400V AC / 50Hz	
3.2	Voltage Variation/ Frequency Variation	±10 / ± 5%	
3.3	Insulation Voltage	0.6/1KV	
3.4	Rated Power Frequency Withstand Voltage	2.5 KV	
3.5	Rated Impulse Withstand Voltage	8 KV	
3.6	No. of Phases / Wires	3Ph+N+PE	
3.7	Control Voltage	230VAC (With Isolating Transformer if Any)	



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BK	GCS	PEDCO	120	EL	DT	0016	D01

شماره صفحه: 4 از 6

**Technical Data Sheet for Distribution & Lighting Panels**

ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
3.8	Space Heater Voltage	230VAC	
3.9	Internal/ External Voltage Supply	Internal	
3.10	Main Bus-Bar Rating	According to SLD (Item 2.5)	
3.11	Bus-Bars Material	Indoor: Heat Shrink Copper Outdoor: Silver Plated Copper	
3.12	Bus Bar Insulation	Dielectric Insulation	
3.13	Bus Bars Joints	Silver Plated	
3.14	Earth Bus-Bar Size	By Vendor	
3.15	Rated Short Circuit Current	According to SLD (Item 2.5)	
3.16	Type Of System Grounding	TNS / Solid Earthed	
<b>4</b>	<b>ENCLOSURE DATA</b>		
4.1	Enclosure Type	Wall Mounted , Fixed Type, Front Access	
4.2	Degree of Protection	Indoor: IP 42, Outdoor: IP 54	
4.3	Cable Entry	Bottom via Gland	
4.4	Outgoing Feeder	Cable, Bottom	
4.5	Material	Painted Sheet Steel	
4.6	Finish Color	RAL 7032	
4.7	Dimensions (HxWxD)	By Vendor	
4.8	Sheet Steel Thickness (Body/Frame)	Free Standing: 2mm/2mm Wall Mounted: 1.5mm/2mm	
4.9	Painting	For Corrosive & Hot Atmosphere	
4.10	Thickness	Min. 60μ	
4.11	Type	Epoxy Powder Elector Static	
4.12	Weight	By Vendor	
<b>5</b>	<b>CIRCUIT BREAKERS</b>		
5.1	Manufacturer / Type	By Vendor	
5.2	Rated Operating Voltage	690V AC	
5.3	Service Voltage	400V AC	
5.4	Incoming Circuit Breaker Type	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
5.5	Internal Protections for MCCB	According to "BK-GCS-PEDCO-120-EL-SL-0004", Thermal Over Load (49) & Instantaneous O/C 50) are Required	
5.6	Incoming C.B Aux. Switches	Yes	



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BK	GCS	PEDCO	120	EL	DT	0016	D01

شماره صفحه: 5 از 6

**Technical Data Sheet for Distribution & Lighting Panels**

ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
5.7	Incoming C.B Trip Switches	Yes	
5.8	Rated Current	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
5.9	Outgoing Circuit Breakers Type	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
<b>6</b>	<b>LV FUSES</b>		
6.1	Manufacturer	By Vendor	
6.2	Type Designation	gG	
6.3	Rated Voltage	690V	
6.4	Service Voltage	400V	
6.5	Rated Current	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
<b>7</b>	<b>CURRENT TRANSFORMERS</b>		
7.1	Manufacturer / Type	By Vendor	
7.2	Rated Secondary Current	5A, 1A, According to "BK-GCS-PEDCO-120-EL-SL-0004"	
7.3	Accuracy Class	Metering: 1.0, Protection: 5P10	
<b>8</b>	<b>AMMETERS</b>		
8.1	Manufacturer / Type	By Vendor	
8.2	Operating Range	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
8.3	Accuracy Class	1.5	
<b>9</b>	<b>VOLTMETERS</b>		
9.1	Manufacturer / Type	By Vendor	
9.2	Operating Range	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
9.3	Accuracy Class	1.5	
<b>10</b>	<b>CONTACTORS</b>		
10.1	Manufacturer / Type	By Vendor	
10.2	Rated Voltage	400V AC	
10.3	Coil Voltage	230V AC	
10.4	Duty	AC3	
10.5	Aux. Switches	Yes	
10.6	Rated Current	According to "BK-GCS-PEDCO-120-EL-SL-0004"	
<b>11</b>	<b>PHOTOCELL</b>		



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BK	GCS	PEDCO	120	EL	DT	0016	D01

شماره صفحه: 6 از 6

**Technical Data Sheet for Distribution & Lighting Panels**

ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
11.1	Constructed	5A,230 V,50Hz	
11.2	Degree of Protection	IP55 ,Heavy Duty Type	
11.3	Operation Type	Fail Safe & Adjustable	
<b>12</b>	<b>LABLE</b>		
12.1	Language	English	
12.2	Material	Stainless Steel-Screwed/Reverted	
12.3	Main Label (Front / Back)	Engraved / Black Font-White Background	
<b>13</b>	<b>PANEL WIRING</b>		
13.1	Manufacturer	By Vendor	
13.2	Type	CU/PVC	
13.3	Power Wire Color	R: Red, S: Yellow, T: Blue, Neutral: Black PH: Red, Neutral: Black	
13.4	Signal Wire Color (Voltage Presence Indicator)	Red (L1), Green (L2), Yellow (L3)	
<b>14</b>	<b>PANEL TERMINAL</b>		
14.1	Manufacturer	By Vendor	
14.2	Model NO.	By Vendor	
14.3	Type	Solderless Clamp Type-Flame Retardant	
14.4	Rated Voltage	According to IEC	
14.5	Size	Min. 4sqmm & AS Per SLD	
14.6	Color	Neutral (Blue) / PE (Green/ Yellow)	
<b>15</b>	<b>ACCESSORIES</b>		
15.1	Panel Lighting	Yes	
15.2	Space Heater with Thermostat	Yes	
15.3	Door Key	Yes	
15.4	Gland Plate (Undrilled)	Yes	
15.5	Gland Plate Type (Normal/Non-Magnetic)	Normal	
15.6	Terminal Lugs	Yes	
15.7	Commissioning Spare Parts	Yes	
15.8	Two Year Operation Spare Parts	Yes	
15.9	Routine Test	Witnessed & Report	
15.10	Type Test Certificate (if Required)	Certificate	

Note 1: All required accessories shall be considered by vendor.