

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS OF WELL PADS							شماره صفحه: ۱ از ۶	
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	SSGRL	PEDCO	110	EL	DT	0011		D03

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS OF WELL PADS

نگهداشت و افزایش تولید میدان نفتی بینک

D03	Apr. 2023	AFC	H.Shakiba	M.Fakharian	M.Mehrshad	
D02	Jul. 2022	IFA	H.Shakiba	M.Fakharian	M.Mehrshad	
D01	May. 2022	IFA	H.Shakiba	M.Fakharian	M.Mehrshad	
D00	Sep.2021	IFC	M.Asgharnejad	M.Fakharian	Sh.Ghalikar	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 1

Client Doc. Number: F0Z-707396

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

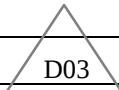
 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک																	
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BK	SSGRL	PEDCO	110	EL	DT	0011	D03											

REVISION RECORD SHEET

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3	X	X	X	X	
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک								
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	BK	SSGRL	PEDCO	110	EL	DT	0011	D03	

Technical Data Sheet for Distribution & Lighting Panels of Well Pads			
ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
1	SITE CONDITION		
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	Indoor, Wall Mounted, Surface/ Flush	
2	GENERAL INFORMATION		
2.1	Tag Numbers	Well XX-DP01 (Distribution Panel for Switchgear Building (Indoor))	
		Well XX-DP02 (Distribution Panel for Security Building (Indoor))	
		Well XX-DP03 (Distribution Panel for Outdoor Area (Indoor))	
2.2	Quantity	3 Set for Each Well Pad	
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	Single Line Diagram For LV Power Distribution Panel of Well Pads (BK-SSGRL-PEDCO-110-EL-SL-0003)	
3	ELECTRICAL DATA		
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)	
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	

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Technical Data Sheet for Distribution & Lighting Panels of Well Pads			
ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
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	
4	ENCLOSURE DATA		
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)	2mm/2mm	D03
4.9	Painting	For Corrosive & Hot Atmosphere	
4.10	Thickness	Min. 60μ	
4.11	Type	Epoxy Powder Elector Static	
4.12	Weight	By Vendor	
5	CIRCUIT BREAKERS		
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-SSGRL-PEDCO-110-EL-SL-0003"	
5.5	Internal Protections for MCCB	According to "BK-SSGRL-PEDCO-110-EL-SL-0003" Thermal Over Load (49) & Instantaneous O/C 50) are Required	
5.6	Incoming C.B Aux. Switches	Yes	
5.7	Incoming C.B Trip Switches	Yes	
5.8	Rated Current	According to "BK-SSGRL-PEDCO-110-EL-SL-0003"	
5.9	Outgoing Circuit Breakers Type	According to "BK-SSGRL-PEDCO-110-EL-SL-0003"	
6	LV FUSES		
6.1	Manufacturer	By Vendor	

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Technical Data Sheet for Distribution & Lighting Panels of Well Pads			
ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
6.2	Type Designation	gG	
6.3	Rated Voltage	690V	
6.4	Service Voltage	400V	
6.5	Rated Current	According to "BK-SSGRL-PEDCO-110-EL-SL-0003"	
7	CURRENT TRANSFORMERS		
7.1	Manufacturer / Type	By Vendor	
7.2	Rated Secondary Current	5A, 1A, According to "BK-SSGRL-PEDCO-110-EL-SL-0003"	
7.3	Accuracy Class	Metering: 1.0, Protection: 5P10	
8	AMMETERS		
8.1	Manufacturer / Type	By Vendor	
8.2	Operating Range	According to "BK-SSGRL-PEDCO-110-EL-SL-0003"	
8.3	Accuracy Class	1.5	
9	VOLTMETERS		
9.1	Manufacturer / Type	By Vendor	
9.2	Operating Range	According to "BK-SSGRL-PEDCO-110-EL-SL-0003"	
9.3	Accuracy Class	1.5	
10	CONTACTORS		
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-SSGRL-PEDCO-110-EL-SL-0003"	
11	PHOTOCELL		
11.1	Constructed	5A,230 V,50Hz	
11.2	Degree of Protection	IP55 ,Heavy Duty Type	
11.3	Opseration Type	Fail Safe & Adjustable	
12	LABLE		
12.1	Language	English	
12.2	Material	Stainless Steel-Screwed/Reverted	

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Technical Data Sheet for Distribution & Lighting Panels of Well Pads			
ITEM	DESCRIPTION	REQUIREMENT	SUPPLIER DATA
12.3	Main Label (Front / Back)	Engraved / Black Font-White Background	
13	PANEL WIRING		
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)	
14	PANEL TERMINAL		
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)	
15	ACCESSORIES		
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	

This data sheet is valid for all 6 numbers of well pads as follow:

Well Number BK-12

Well Number BK-15

Well Number BK-05

Well Number W-046S

Well Number W-007S

Well Number BK-14

Therefore in item 2.1, "Well XX" is:

XX: BK-12, BK-15, BK-05, W-046S, W-007S, BK-14