

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 شرکت توسعه و پارس		
	DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)						 		
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	EL	DT	0006	D02	

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)

نگهداشت و افزایش تولید میدان نفتی بینک

D02	Jul.2022	AFC	H.Shakiba	M.Fakharian	M.Mehrshad	
D01	May.2022	IFA	H.Shakiba	M.Fakharian	M.Mehrshad	
D00	Feb.2022	IFC	H.Shakiba	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

CLIENT Doc. Number: F0Z-709023

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
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

پسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

EL

نوع مدرک

DT

سریال

0006

نسخه

D02

شماره صفحه: ۲ از ۷

REVISION RECORD SHEET

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2	X	X	X		
3	X	X			
4	X	X			
5	X	X			
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 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته EL	نوع مدرک DT	سریال 0006	نسخه D02	شماره صفحه: ۷ از ۳
Explosion Proof LV LCS Type B1										
A	Electrical Specification			Purchaser Requirement			Vendor Data			
Equipment Tag Number										
1. General data	1.1	Reference Document			BK-GNRAL-PEDCO-000-EL-SP-0008 IPS-M-EL-161(2)					
	1.2	Type of LCS according to IPS			B1-LV-EX					
	1.3	Type of Protection			EEX"d"					
	1.4	Explosion Group			IIB					
	1.5	Temperature Class			T3					
	1.6	Zone			2					
	1.7	Degree of Protection			IP 65					
	1.8	Average Ambient Temperature			Max 55 °C, Min 5 °C					
	1.9	Elevation from Sea Level			12.5 m					
	1.10	Maximum Humidity			100%					
	1.11	Location			Binak Oilfield in Busheher Province					
	1.12	Isolation Voltage			1000V					
2. Technical Data	2.1	Control Voltage			230 Vac					
	2.2	Breaking Current			10 A					
	2.3	Cable			7×2.5 mm2					
	2.4	Cable Gland with PVC Shroud			Required					
	2.5	Number of Gland			2					
	2.6	Size of Terminal			4 mm2 with Spare Terminal					
	2.7	Termination			Wired to Device Terminal					
	2.8	Material/Thickness			Cast Iron or Copper Free Aluminum					
	2.9	Current Rating			N/A					
	2.10	No. of Terminal			10 No.					
	2.11	Color Code			RAL 7032					
3. Accessories	3.1	Stop Push Button: Red Color & Stay Put (Mushroom type), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.2	Start Push Button: Green Color & Spring Return Type, Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.3	Selector Switch: 3Position, Local/Of/Remote or (Hand/off/Auto), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.4	Earth Terminal: Required, Internal & External, External is 25mm2.								
	3.5	Cable Gland: M32 Size, EEX"d", ZONE 2,IIB, T3, Nickle Plated Brass, one of enteries shall be equipped with Exd Stopper Plug.								
	3.6	Installation Type with all Accessories: BK-GNRAL-PEDCO-000-EL-DW-0004								
	3.7	Tag Identification: Stainless Steel & Attached with Mechanical Non-Corrosive Hardware.								
B	General Note									
1	Type of Control Cable is CU/XLPE/SWA/PVC or CU/XLPE/LC/SWA/PVC									
2										
3										

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 HIRGAN ENERGY		
		DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته EL	نوع مدرک DT	سریال 0006	نسخه D02	شماره صفحه: ۴ از ۷
Explosion Proof LV LCS Type B2										
A		Electrical Specification			Purchaser Requirement			Vendor Data		
Equipment Tag Number										
1. General data	1.1	Reference Document			BK-GNRAL-PEDCO-000-EL-SP-0008 IPS-M-EL-161(2)					
	1.2	Type of LCS according to IPS			B2-LV-EX					
	1.3	Type of Protection			EEX"d"					
	1.4	Explosion Group			IIB					
	1.5	Temperature Class			T3					
	1.6	Zone			2					
	1.7	Degree of Protection			IP 65					
	1.8	Average Ambient Temperature			Max 55 °C, Min 5 °C					
	1.9	Elevation from Sea Level			12.5 m					
	1.10	Maximum Humidity			100%					
	1.11	Location			Binak Oilfield in Busheher Province					
	1.12	Isolation voltage			1000 V					
2. Technical Data	2.1	Control Voltage			230 Vac					
	2.2	Breaking Current			10 A					
	2.3	Cable			10×2.5 mm2					
	2.4	Cable Gland with PVC Shroud			Required					
	2.5	Number of Gland			2					
	2.6	Size of Terminal			4 mm2 with Spare Terminal					
	2.7	Termination			Wired to Device Terminal					
	2.8	Material/Thickness			Cast Iron or Copper Free Aluminum					
	2.9	Ammeter			Required (suitable for connecting to CT X:1A), CL 1.5					
	2.10	Current Rating			According to SLDs					
	2.11	No. of Terminal			10 No.					
	2.12	Color Code			RAL 7032					
3. Accessories	3.1	Stop Push Button: Red Color & Stay Put (Mushroom type), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.2	Start Push Button: Green Color & Spring Return Type, Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.3	Selector Switch: 3Position, Local/Of/Remote or (Hand/off/Auto), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.4	Earth Terminal: Required, Internal & External, External is 25mm2.								
	3.5	Cable Gland: M32 Size, EEX"d", ZONE 2,IIB, T3, Nickle Plated Brass, one of enteries shall be equipped with Exd Stopper Plug.								
	3.6	Installation Type with all Accessories: BK-GNRAL-PEDCO-000-EL-DW-0004								
	3.7	Tag Identification: Stainless Steel & Attached with Mechanical Non-Corrosive Hardware.								
B		General Note								
1		Type of Control Cable is CU/XLPE/SWA/PVC or CU/XLPE/LC/SWA/PVC								
2		Ammeters shall have a compressed overload scale of at least 6 times the full load motor current.								
3										

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض						 شرکت توسعه و پارس HIRGAN ENERGY		
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته EL	نوع مدرک DT	سریال 0006	نسخه D02	شماره صفحه: ۷ از ۷
Safe Area LV LCS Type B1										
A	Electrical Specification			Purchaser Requirement			Vendor Data			
Equipment Tag Number										
1. General data	1.1	Reference Document			BK-GNRAL-PEDCO-000-EL-SP-0008 IPS-M-EL-161(2)					
	1.2	Type of LCS according to IPS			B1-LV-WP					
	1.3	Type of Protection			Weather Proof					
	1.4	Explosion Group			-					
	1.5	Temperature Class			-					
	1.6	Zone			Safe Area					
	1.7	Degree of Protection			IP 55					
	1.8	Average Ambient Temperature			Max 55 °C, Min 5 °C					
	1.9	Elevation from Sea Level			12.5 m					
	1.10	Maximum Humidity			100%					
	1.11	Location			Binak Oilfield in Busheher Province					
	1.12	Isolation voltage			1000V					
2. Technical Data	2.1	Control Voltage			230 Vac					
	2.2	Breaking Current			10 A					
	2.3	Cable			7×2.5 mm2					
	2.4	Cable Gland with PVC Shroud			Required					
	2.5	Number of Gland			2					
	2.6	Size of Terminal			4 mm2 with Spare Terminal					
	2.7	Termination			Wired to Device Terminal					
	2.8	Material/Thickness			Cast Iron or Copper Free Aluminum					
	2.9	Current Rating			N.A					
	2.10	No. of Terminal			10 No.					
	2.11	Color Code			RAL 7032					
3. Accessories	3.1	Stop Push Button: Red Color & Stay Put (Mushroom type), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.2	Start Push Button: Green Color & Spring Return Type, Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.3	Selector Switch: 3Position, Local/Of/Remote or (Hand/off/Auto), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.4	Earth Terminal: Required, Internal & External, External is 25mm2.								
	3.5	Cable Gland: M32 Size, Industrial Type, Nickle Plated Brass, one of enteries shall be equipped with Exd Stopper Plug.								
	3.6	Installation Type with all Accessories: BK-GNRAL-PEDCO-000-EL-DW-0004								
	3.7	Tag Identification: Stainless Steel & Attached with Mechanical Non-Corrosive Hardware.								
B	General Note									
1	Type of Control Cable is CU/XLPE/SWA/PVC or CU/XLPE/LC/SWA/PVC									
2										
3										

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 شرکت توسعه و پارسا سازی انرژی		
		DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۶ از ۷
		BK	GCS	PEDCO	120	EL	DT	0006	D02	
Safe Area LV LCS Type B2										
A	Electrical Specification			Purchaser Requirement				Vendor Data		
Equipment Tag Number										
1. General data	1.1	Reference Document			BK-GNRAL-PEDCO-000-EL-SP-0008 IPS-M-EL-161(2)					
	1.2	Type of LCS according to IPS			B2-LV-WP					
	1.3	Type of Protection			Weather Proof					
	1.4	Explosion Group			-					
	1.5	Temperature Class			-					
	1.6	Zone			Safe Area					
	1.7	Degree of Protection			IP 55					
	1.8	Average Ambient Temperature			Max 55 °C, Min 5 °C					
	1.9	Elevation from Sea Level			12.5m					
	1.10	Maximum Humidity			100%					
	1.11	Location			Binak Oilfield in Busheher Province					
	1.12	Isolation voltage			1000V					
2. Technical Data	2.1	Control Voltage			230 Vac					
	2.2	Breaking Current			10 A					
	2.3	Cable			10×2.5 mm2					
	2.4	Cable Gland with PVC Shroud			Required					
	2.5	Number of Gland			2					
	2.6	Size of Terminal			4 mm2 with Spare Terminal					
	2.7	Termination			Wired to Device Terminal					
	2.8	Material/Thickness			Cast Iron or Copper Free Aluminum					
	2.9	Ammeter			Required (suitable for connecting to CT X:1A), CL 1.5					
	2.10	Current Rating			According to SLDs					
	2.11	No. of Terminal			10 No.					
	2.12	Color Code			RAL 7032					
3. Accessories	3.1	Stop Push Button: Red Color & Stay Put (Mushroom type), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.2	Start Push Button: Green Color & Spring Return Type, Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.3	Selector Switch: 3Position, Local/Of/Remote or (Hand/off/Auto), Double Break Contact (1 Pair Normally Open Contact, 1 Pair Closed Open Contact)								
	3.4	Earth Terminal: Required, Internal & External, External is 25mm2.								
	3.5	Cable Gland: M32 Size, Industrial Type, Nickle Plated Brass, one of enteries shall be equipped with Exd Stopper Plug.								
	3.6	Installation Type with all Accessories: BK-GNRAL-PEDCO-000-EL-DW-0004								
	3.7	Tag Identification: Stainless Steel & Attached with Mechanical Non-Corrosive Hardware.								
B	General Note									
1	Type of Control Cable is CU/XLPE/SWA/PVC or CU/XLPE/LC/SWA/PVC									
2	Ammeters shall have a compressed overload scale of at least 6 times the full load motor current.									
3										



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

DATA SHEETS FOR LOCAL CONTROL STATIONS (LCS)



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

EL

نوع مدرک

DT

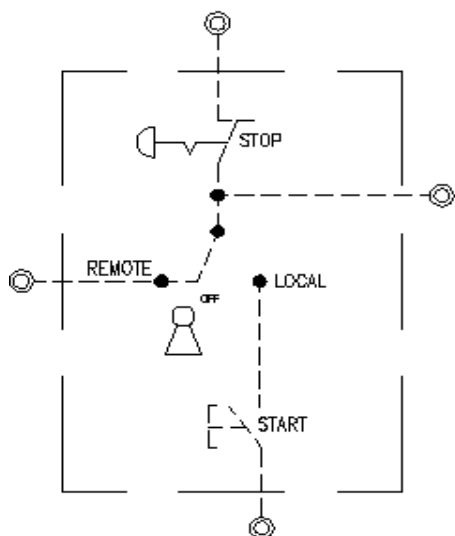
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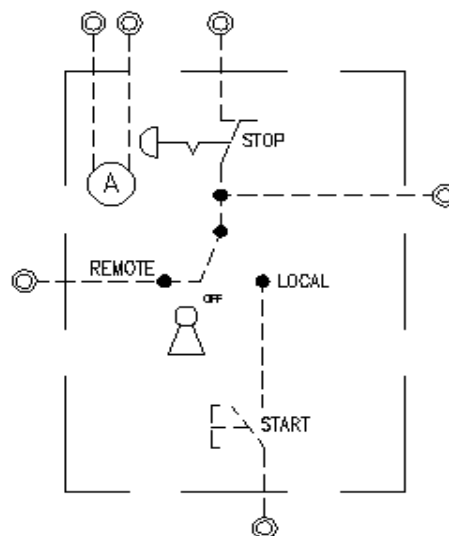
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D02

شماره صفحه: ۷ از ۷



TYPE B1



TYPE B2

Type B1: Includes start and stop pushbuttons plus a three position selector switch.

Type B2: Includes start and stop pushbuttons plus a three position selector switch and an ammeter.