

 NISOC شماره پیمان: 053 - 073 - 9184	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03) CONTROL PANEL PARTS DATA SHEET/LICENCE LIST/ CERTIFICATES <table><tr><td>نسخه</td><td>سریال</td><td>نوع مدرک</td><td>رشته</td><td>تسهیلات</td><td>صادرکننده</td><td>پسته کاری</td><td>پروژه</td></tr><tr><td>V04</td><td>0005</td><td>DS</td><td>IN</td><td>120</td><td>HY</td><td>GCS</td><td>BK</td></tr></table>	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	پسته کاری	پروژه	V04	0005	DS	IN	120	HY	GCS	BK	  شماره صفحه: 1 از 4
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	پسته کاری	پروژه											
V04	0005	DS	IN	120	HY	GCS	BK											

طرح نگهداشت و افزایش تولید 27 مخزن

CONTROL PANEL PARTS DATA SHEET/LICENCE LIST/ CERTIFICATES

نگهداشت و افزایش تولید میدان نفتی بینک

V04	May. 2024	AFC	Havayar	M.Fakharian	S. Faramarzpour	
V03	Feb. 2024	IFR	Havayar	M.Fakharian	S. Faramarzpour	
V02	Oct. 2023	IFR	Havayar	M.Fakharian	S. Faramarzpour	
V01	Aug. 2023	IFR	Havayar	M.Fakharian	M.Mehrshad	
V00	Jun. 2023	IFR	Havayar	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared By	Checked By	Approved By	Client Approval



NISOC

شماره پیمان:

053 - 073 - 9184

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد BK-HD-GCS-CO-0008_03)



CONTROL PANEL PARTS DATA SHEET/LICENCE LIST/
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شماره صفحه: 2 از 4

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
V04	0005	DS	IN	120	HY	GCS	BK

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	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنيه تحت الارض خرید پکیج های کمپرسور گاز (رقت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)									
	CONTROL PANEL PARTS DATA SHEET/LICENCE LIST/ CERTIFICATES									
شماره پیمان: 053 - 073 – 9184	Project	Package	Issuer	Facility	Dicipline	Doc.	Sequence	Rev	شماره صفحه: 3 از 4	
	BK	GCS	HY	120	IN	DS	0005	V04		
Tag Number UCP-2101A UCP-2101B UCP-2101C										
Standards and regulations ☒ IEC ☒ IPS ☐ RITAL										
Panel data										
Panel type	☐ Rittal brand ☐ Plug-in design ☐ Fixed		☒ Rittal type(Made in Iran) ☐ Wall/skid Mounted ☒ Free Standing				☐ Rack mounted			
Installation	☒ Indoor (Client control room)		☐ Outdoor under shelter				☐ Outdoor unsheltered			
Color of enclosure	☐ RAL 7032		☒ RAL 7035				☐ Other			
Dimensions	Width	2400(3*800mm)	mm	Height	2100	mm	Depth	800mm		
Body material & size	Material	Sheet Steel	-	Thickness	2	mm				
Door & Top material & size	Material	Sheet Steel	-	Thickness	2	mm				
Cable connection location	☒ Bottom ☐ Top									
Environmental conditions										
Humidity range	☐ 0-10% ☐ 10-30% ☐ 30-50% ☐ 50-60% ☒ 60-70% ☐ 70-80%									
Substation temperature (max)	☐ 25°C ☐ 30°C ☐ 35°C ☒ 43°C ☐ 44°C ☐ 50°C									
Substation temperature (min)	☐ +1 °C ☒ 0 °C ☐ -20 °C									
Installation altitude above MSL	☐ sea level ☒ ≤1500m ☐ >1000m ☐ >2000m									
Ingress of protection	☐ IP31 ☐ IP40 ☐ IP41 ☐ IP42 ☒ IP54 ☐ IP65									
Control cabinet heating / cooling	☒ Ventilated ☒ Heater & Thermostat		☐ Unventilated ☒ Fan & Filter				☒ Hydrostat ☐ None			
Lighting	☒ Florsant		☒ Microswitch				☒ socket ☐ Other			
Earth	☒ Instrument Earth (IS & NIS)		☒ Electrical Earth							
PLC data										
Brand / type	☒ Siemens ☐ Other									
Redundancy	☐ S7 - 1200 ☐ S7-300 ☒ S7-400FH ☐ Other									
HMI Type	☐ No Redundancy ☒ CPU ☒ Communication ☒ Powersupply ☒ Critical I/O (I/O in ET200M)									
Barrier For Analog (Hart)	☐ None ☐ TP177A ☐ TP177B ☐ MP-277 # 19" ☒ TP1500 (15")									
Note1: Monitoring of machinery will be done by PLC. PLC is high available & high reliability. Note 2: As per configuration document , ESD system is really base included in PLC panel.										
Soft ware Data for Laptop										
Original license	Yes ☒ No ☐	Original software	Yes ☒ No ☐	Logic source	Yes ☒ No ☐	One Laptop(EWS)One IPC(OWS)	Yes ☒ No ☐			
Certificate	SIL Certificate for Barrier GMI & Relay Trip signal Panel IP									
Used Instruments										
no. Qty.	Instrument	Description								
Quantity of I/O module as per below document: BK-GCS-HY-120-IN-DG-0001 PLC WIRING DIAGRAM & TERMINAL DETAILS BK-GCS-HY-120-IN-DG-0002 CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING Reference Document: BK-GCS-HY-120-IN-DG-0002 OVERAL CONTROL/SAFETY SYSTEM CONFIGURATION DIAGRAM BK-GCS-HY-120-PR-PI-0001 P&ID Diagram BK-GCS-HY-120-IN-IJ-0005 I/O List										
			☐ None ☐ PRO-Fi Bus module For DCS ☒ Modbus RTU module For DCS ☒ PLC communication (with hard wire To DCS) ☒ Hard wire for field ☐ Ethernet (WIRE) to IPC ☐ Note: Some Signals between UCP and DCS are hard wire.		☒ Control relay ☐ Annunciator ☒ Selectors (UCP/DCS Selector made & Load Selector switch) ☒ Push button (Compressor Start & Stop) ☐ Indicator light ☒ Terminal ☒ MCB ☒ Emergency stop					
Supply voltage										
Supply feeder :	☐ voltage Transformator ☒ UPS (Redundant delivered by client) ☒ Normal (Fan & Lighting) ☐ Other									
Voltage power rate for control panel :	☐ 24V DC ☒ 110V AC ☒ 230V AC ☐ Other									
Voltage power rate for Instrumentation purposes :	☒ 50 Hz. ☐ 60 Hz. ☐ 230V AC ☐ Other									
Identification / Wiring / nameplate										
Label & Name plate	☒ Label ☒ Name plate ☒ Wiring tag									
Language	☐ Persian ☒ English ☐ Other									
Insulation material of leads	☒ PVC ☐ Flame retardant									
Gland data for PLC panel										
Material	☒ Brass nickel plated ☐ Brass ☐ thermoplastic ☐ S.S ☐ other									
Ingress of protection	☐ EExe ☐ Eexd ☒ IP54 ☐ IP66 ☐ IP68 ☐ other									
Mechanical protection	☒ Armoured ☐ un-Armoured									



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CONTROL PANEL PARTS DATA SHEET/LICENCE LIST/ CERTIFICATES

شماره پیمان:
053 - 073 - 9184

Project	Package	Issuer	Facility	Dicipline	Doc.	Sequence	Rev
BK	GCS	HY	120	IN	DS	0005	V04

شماره صفحه: 4 از 4

Item	Description	Order# (if applicable)	Manufacturer	Country of Origin
LAPTOP (EWS)				
1	PCS7 V9.1	N.A	Siemens	Germany
2	Tia Portal V17	N.A	Siemens	Germany
3	SIMATIC PCS 7, software, Software Media Package V9.1 SP1 data storage medium without license use only in connection with valid license Trial License for 14 days, without liability and warranty with restricted functionality (see product info) R-SW, software on USB without documentation 5 languages (de, en, fr, it, es), executable in Windows 10 LTSC 2019 Windows Server 2019 for more information, see PCS 7 V9.1 Readme reference hardware: PCS 7 IPC bundle ***** content: 1x USB	6ES7658-4XX68-0YT8	Siemens	Germany
4	SIMATIC PCS 7, software, AS/OS Engineering V9.1 Floating License for 1 user E-SW, without SW, without docu. license key on USB flash drive, class A, 5 languages (de, en, fr, it, sp), executable in WIN 10 LTSC 2019 WIN Server 2019 for further information, see PCS 7 V9.1 Readme reference HW: PCS 7 IPC bundle ***** content: 1x USB	6ES7658-5AX68-0YA5	Siemens	Germany
5	SIMATIC S7, SOFTWARE F SYSTEMS V6.2, FLOAT. LICENSE F.1 INSTALLATION R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, 2 LANGUAGES (G,E), EXECUTABLE UNDER WIN7 SP1 / SERVER 2008 R2 SP1 OS ONLY: WIN10 / SERVER 2012 R2 REFERENCE-HW: PC/PG	6ES7833-1CC26-0YA5	Siemens	Germany
6	SIMATIC S7, software F-Systems V6.2 Update 1 Software Media Package Data medium without license usage only in connection with valid license E-SW / R-SW, SW and documentation on CD 2 languages (de, en), executable on WIN7 SP1 / Server 2008 R2 SP1/ WIN10 / Server 2012 R2/ Server 2016 Reference HW: PC/PG	6ES7833-4CC26-0YT8	Siemens	Germany
OWS (IPC)				
7	SIMATIC PCS 7, software, OS Software Client V9.1 Floating License for 1 user R-SW, without SW, without docu. license key on USB flash drive, class A, 5 languages (de, en, fr, it, sp), executable in WIN 10 LTSC 2019 for further information, see PCS 7 V9.1 Readme reference HW: PCS 7 IPC bundle ***** content: 1x USB	6ES7658-2CX68-0YB5	Siemens	Germany
HMI				
8	SIMATIC WinCC Comfort V17, engineering software in the TIA Portal; Floating License; software and documentation on DVD; license key on USB flash drive; class A; 6 languages: de,en,fr,es,it,zh; for configuration of SIMATIC Panels	6AV2101-0AA07-0AA5	Siemens	Germany