

 NISOC	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)	 						
شماره پیمان: 053 - 073 - 9184	CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING							شماره صفحه: 35 از 1
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	V00	0002	DW	IN	120	HY	GCS	
						BK		

طرح نگهداشت و افزایش تولید 27 مخزن

CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING

نگهداشت و افزایش تولید میدان نفتی بینک

V00	Feb. 2024	IFR	HAVAYAR.Co	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Status:

IFA: Issued for Approval
 IFR: Issued for Review
 IFI: Issued for Information
 AFC: Approved for Construction

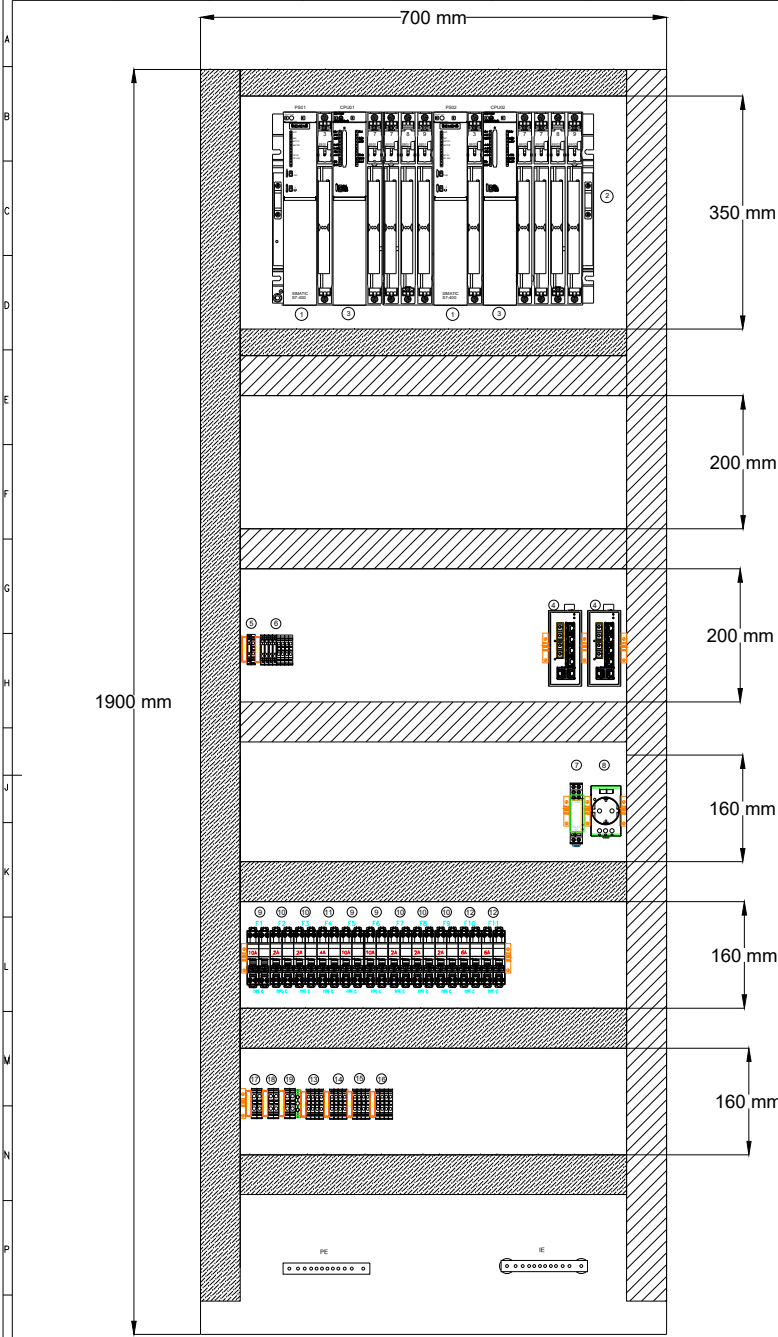
	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض			
	خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)		HAVAYAR INDUSTRIAL GROUP	
شماره پیمان: 053 - 073 - 9184	CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING			
	نسخه 0002	سریال 0002	نوع مدرک DW	رشته IN
	تسهیلات 120	صادر کننده HY	بسته کاری GCS	پروژه BK

شماره صفحه: 35 از 2

REVISION RECORD SHEET

PAGE	V00	V01	PAGE	V00	V01	PAGE	V00	V01	PAGE	V00	V01	PAGE	V00	V01
1	X		66			131			196			261		
2	X		67			132			197			262		
3	X		68			133			198			263		
4	X		69			134			199			264		
5	X		70			135			200			265		
6	X		71			136			201			266		
7	X		72			137			202			267		
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61			126			191			256			321		
62			127			192			257			322		
63			128			193			258			323		
64			129			194			259			324		
65			130			195			260			325		





CELL 1 FRONT VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	PS01,PS02	PS407-10A	SIEMENS	6ES7407-0KA02-0AA0	2
2	RACK1	UR2H	SIEMENS	6ES7400-2JA00-0AA0	1
3	CPU01 , CPU02	CPU 414-5H	SIEMENS	6ES7414-5HM06-0AB0	2
4	SC01 , SC02	Ethernet switche	SIEMENS	6GK5108-0BA00-2AA3	2
5	X-HMI	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	1+1
6	XSC	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
7	RF	RELAY 2PDT 110V	FINDER	N/A	1
8	REC	OUTLET Socket	RAAD	DSO-LD	1
9	F1 , F5 , F6	2P-10A-AC -TYPE: C	SIEMENS	5SL6210-7	3
10	F2,F3,F7,F8,F9	2P-2A-AC -TYPE: C	SIEMENS	5SL6202-7	2
11	F4	2P-4A-AC -TYPE: C	SIEMENS	5SL624-7	1
12	F10, F11	2P-6A-AC -TYPE: C	SIEMENS	5SL626-7	1
13	XL1	TERMINAL NO. 4	RAAD	RTP4	4
14	XN1	TERMINAL NO. 4	RAAD	RTP4	4
15	XL2	TERMINAL NO. 4	RAAD	RTP4	4
16	XN2	TERMINAL NO. 4	RAAD	RTP4	4
17	X-UPS1	TERMINAL NO. 6	RAAD	RTP6	2
18	X-UPS2	TERMINAL NO. 6	RAAD	RTP6	2
19	X-NUPS	TERMINAL NO. 6 + EARTH TERMINAL NO. 6	RAAD	RTP6 + TB 6 PEI	2+1
20	CUBICLE	RITTAL TYPE FREE-STANDING, DUAL ACCESS 800*2000*800mm +100mm PLINTH	TAVAN SANAT	RAL 7035 - IP54-2.5mm	3

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.

DESCRIPTION

BY

DATE

CHECKED

REV. APPR.

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

PROJECT NO.

971020

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EPC CONTRACTOR:

IRANIAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC):

PETROIRAN DEVELOPMENT COMPANY

BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION

DRAWING TITLE:

CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY:

DATE:

SCALE:

SIZE:

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION:

SIZE:

CLASS:

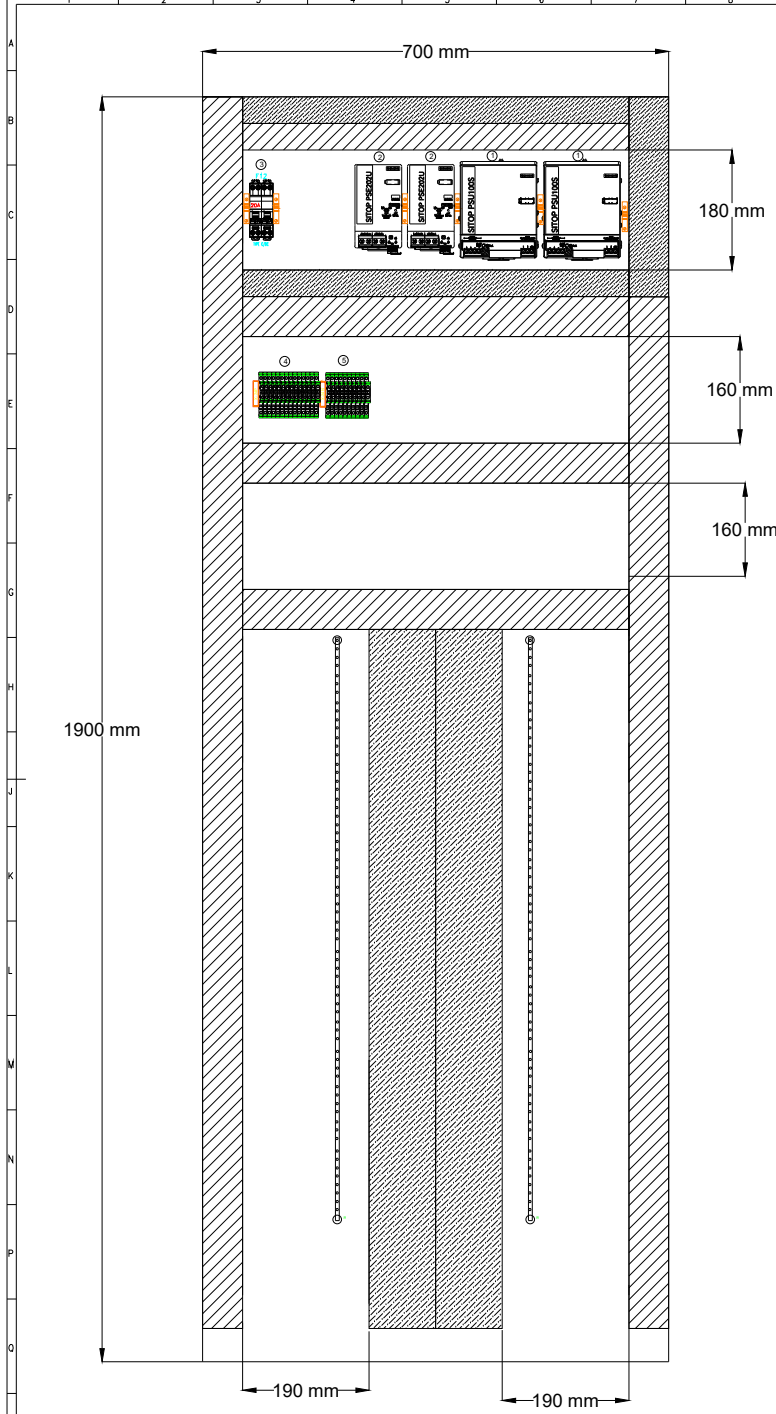
SERIAL NO.

SHEET:

REVISION:



V00	Feb.004	IFR	NAVAYAR, G	NAVAYAR, G	NAVAYAR, G	NAVAYAR, G	
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION							
PROJECT NO.: 971020							
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):			
							
IRANIAN ENERGY - DESIGN & INSPECTION COMPANIES				PETROIRAN DEVELOPMENT COMPANY			
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION							
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.			
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
APPROVED FOR CONSTRUCTION BY: DATE:							
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE
*****	A3	BK-GCS-HY-120-IN-DW-0002	4 OF 36	V00			



CELL 1 REAR VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	PS03 , PS04	SITOP-PS	SIEMENS	6EP1336-2BA10	2
2	PR01	POWER REDUNDANT MODULE	SIEMENS	6EP1961-3BA21	2
3	F11	2P-20A-DC -TYPE: C	SIEMENS	5SL6220-6	1
4	X-24P	D TERMINAL NO.4	RAAD	DRTP4	14
5	X-24N	D TERMINAL NO.4	RAAD	DRTP4	10

NOTES

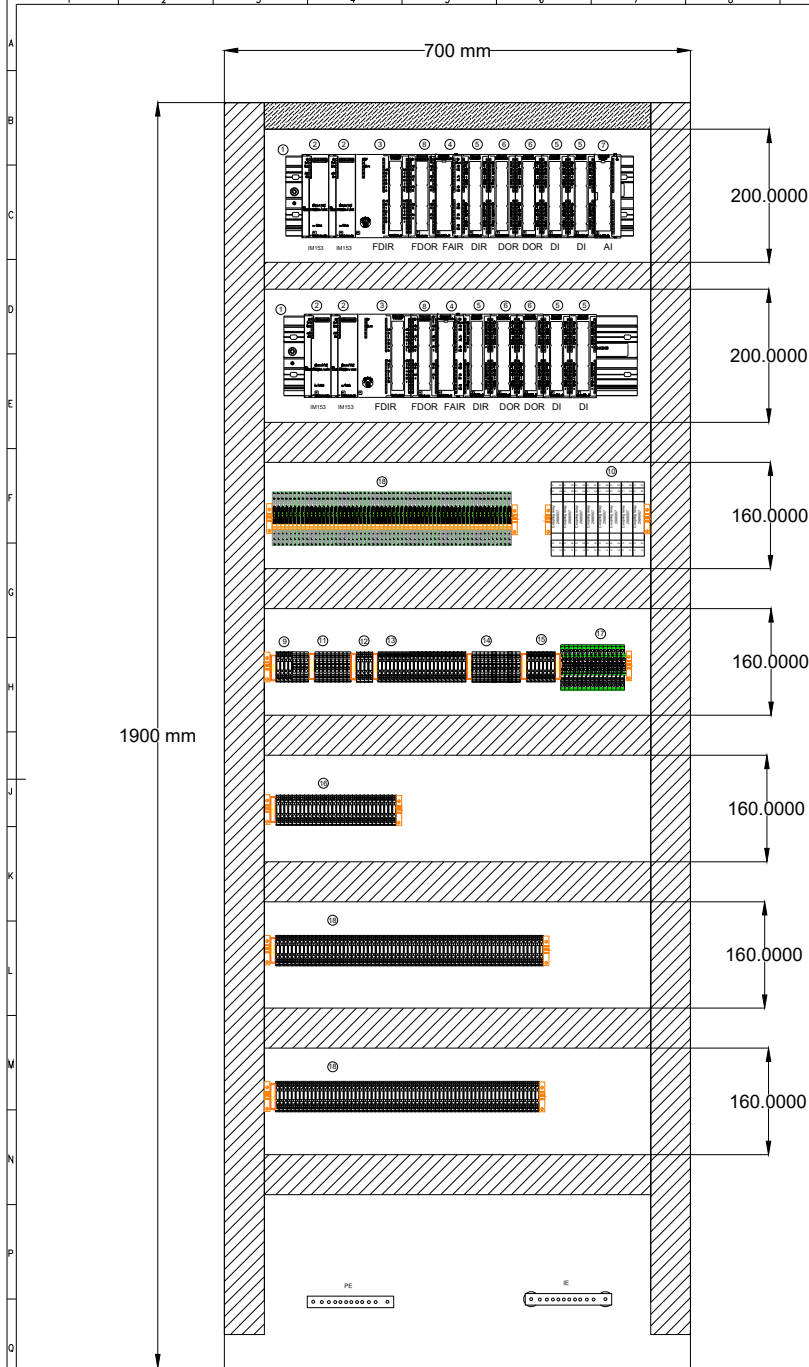
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REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.	DESCRIPTION	BY	DATE	CHK.	APP.	AUT.
V00	Rev. 0001	IPR	NAVARA	NAVARA	NAVARA	NAVARA
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION						
PROJECT NO.: 971020						
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS						
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.		
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
APPROVED FOR CONSTRUCTION BY: DATE:						
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION
*****	A3	BK-GCS-HY-120-IN-DW-0002	5 OF 36	V00		



CELL 2 FRONT VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	RACK 2,3	ET200M RACK	SIEMENS	6ES7195-1GF30-0XA0	2
2	A2.2 , A2.3,A3.2,A3.3	ET200M	SIEMENS	6ES7153-2BA10-0XB0	4
3	A2.4 , A3.4	DIGITAL INPUT MODULE	SIEMENS	6ES7326-1BK02-0AB0	2
4	A2.6,A3.6	ANALOG INPUT MODULE	SIEMENS	6ES7336-4GE00-0AB0	2
5	A3.7,A2.10,A2.11,A3.10,A3.11	DIGITAL INPUT MODULE	SIEMENS	6ES7321-1BL00-0AA0	6
6	A2.8 , A2.9,A3.8,A3.9	DIGITAL OUTPUT MODULE	SIEMENS	6ES7322-1BL00-0AA0	4
7	A2.12	ANALOG INPUT MODULE	SIEMENS	6ES7331-7TF01-0AB0	1
8	A2.5,A3.5	DIGITAL OUTPUT MODULE	SIEMENS	6ES7326-2BF10-0AB0	2
9	XIM	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
10	RF1,...,RF6	PSR-SPP- 24DC/FSP/2X1/1X2 - Coupling relay	PHONEIX	2986957	8
11	XDI-M	TERMINAL NO. 2.5	RAAD	RTP2.5	9
12	XDI-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	4
13	XDO-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	22
14	XDO-M	TERMINAL NO. 2.5	RAAD	RTP2.5	12
15	XP-DIF	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	6
16	XRC1	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	30
17	XN-DO	TERMINALL Double 4	RAAD	DRTP4	15
18	XP-DI	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	135
19	R1,..., R58	RELAY 1PDT	PHONEIX	2966171	58

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.

DESCRIPTION

BY

DATE

CHECKED

REV. APPR.

PROJECT NAME:

BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.:

971020

EPC CONTRACTOR:

EPD/EPC CONTRACTOR (GC):

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DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

DRAWING TITLE:

CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION

SIZE

CLASS

SERIAL NO.

SHEET

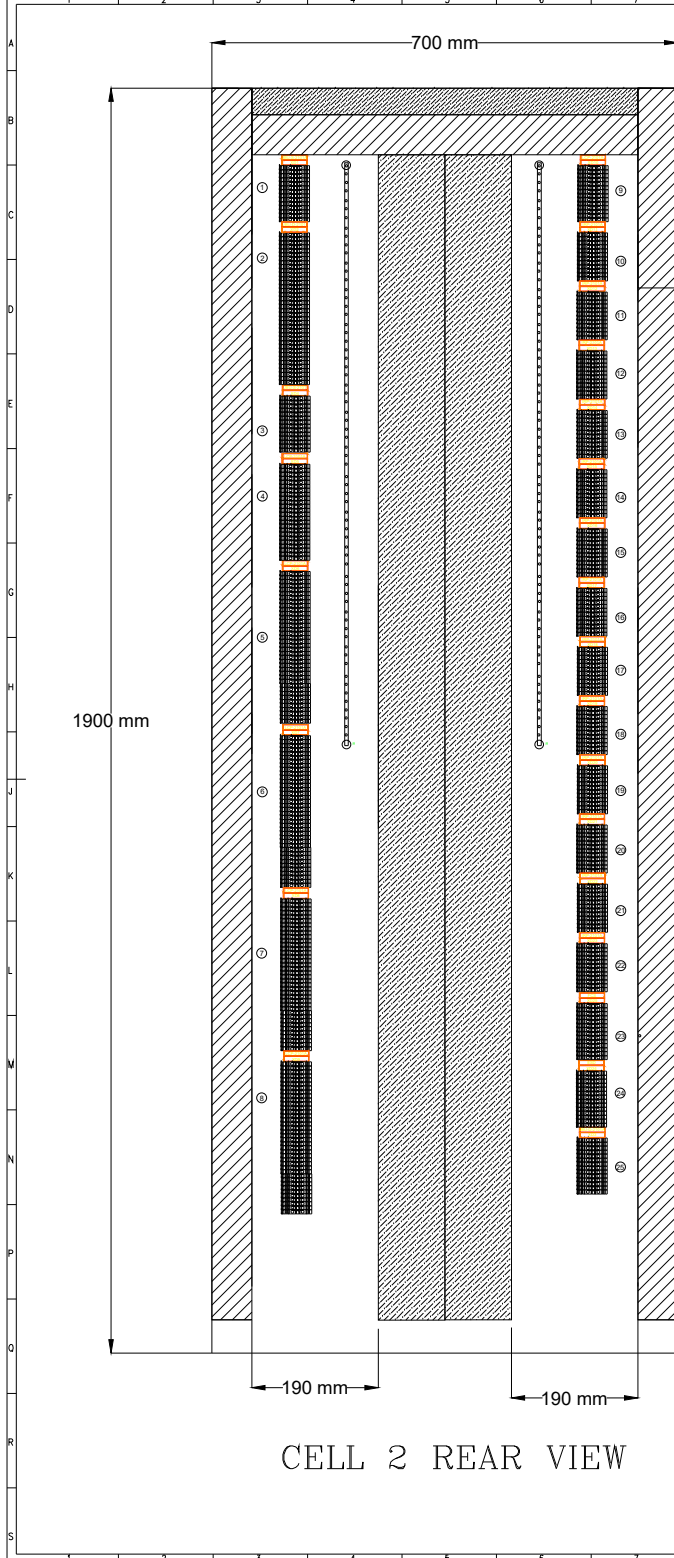
REVISION

A3

BK-GCS-HY-120-IN-DW-0002

6 OF 36

V00



CELL 2 REAR VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	XD1	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	14
2	XD2	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	38
3	XD4	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	14
4	XD5	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	24
5	XD6	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	38
6	XD7	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	38
7	XD8	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	38
8	XD9	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	38
9	XD10	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	14
10	XD11	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
11	XD12	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
12	XD13	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
13	XD14	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
14	XD15	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
15	XD16	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
16	XD17	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
17	XD18	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
18	XD19	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
19	XD20	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
20	XD21	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
21	XD22	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
22	XD23	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	12
23	XD25	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	14
24	XD24	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	14
25	XD3	KNIFE TERMINAL NO. 2.5	RAAD	RDT2.5	14

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV. DESCRIPTION

BY DATE

CHECKED

REV. APPR.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.: 971020

EPC CONTRACTOR: HURGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY

DATE SCALE DRAWING BY CHECKED BY PROJECT ENG.

DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

SCALE: A3

DRAWING NO. BK-GCS-HY-120-IN-DW-0002

SHEET NO. 7 OF 36

REV. V00

BUDGET REF.

LOCATION

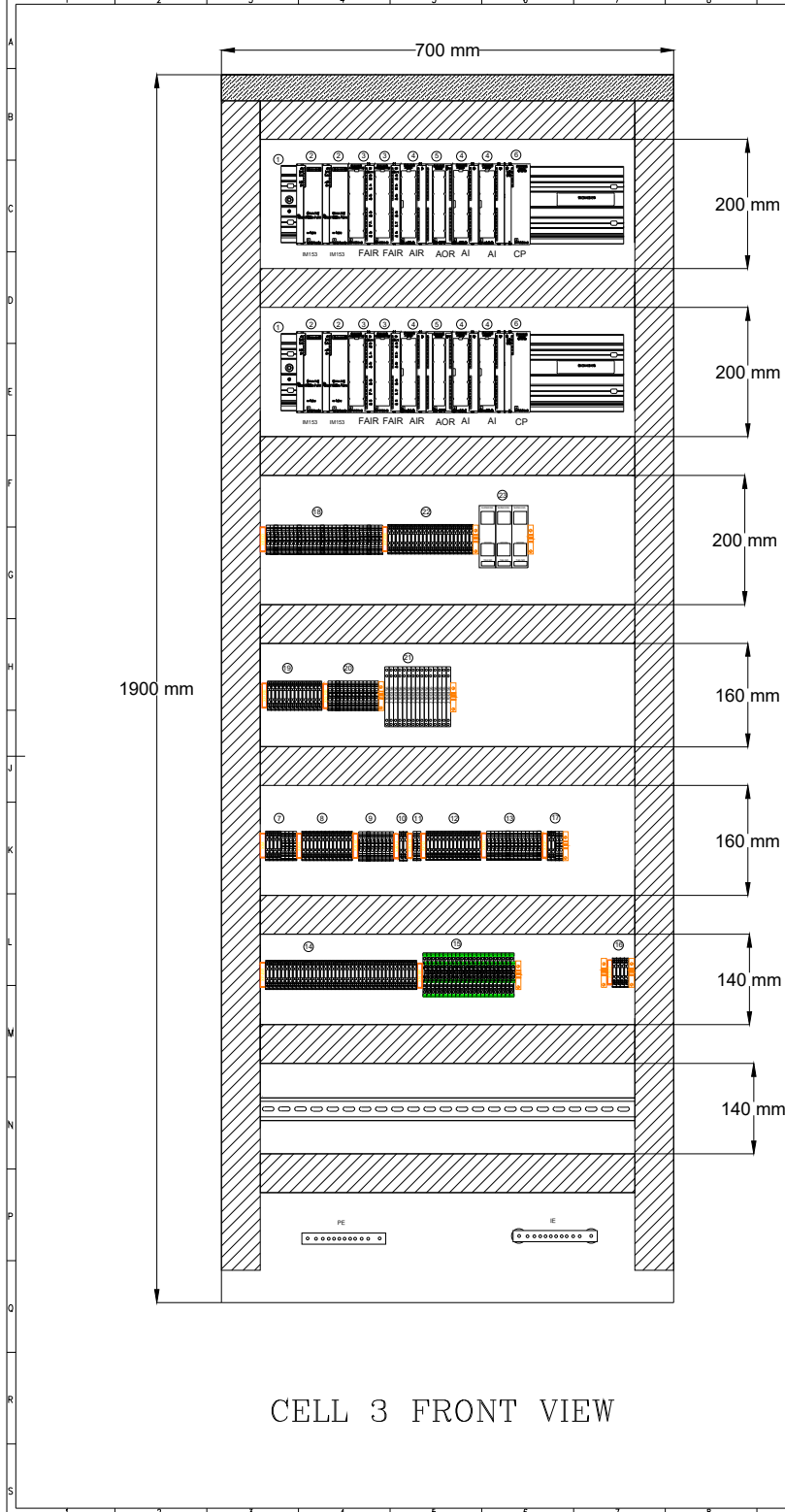
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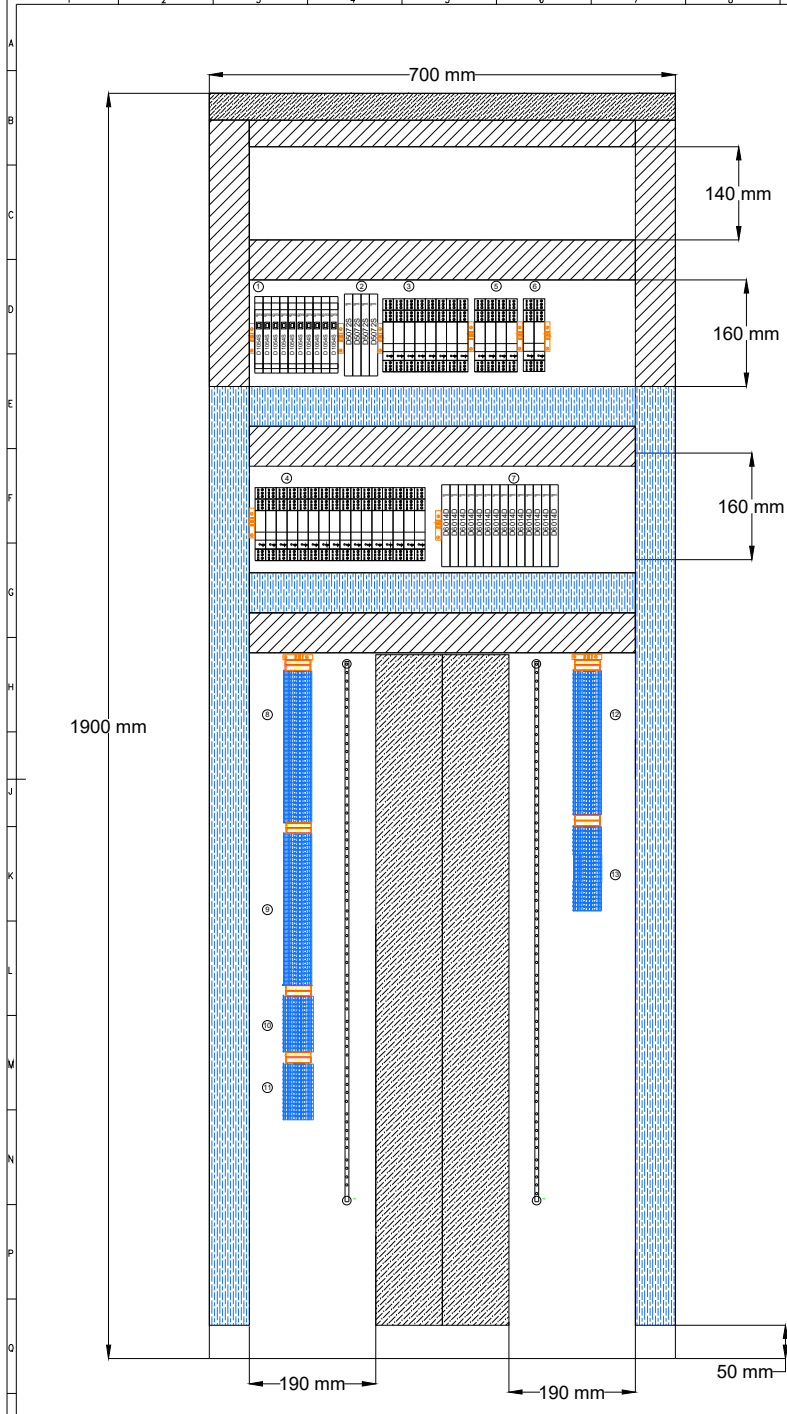
SHEET

REVISION



BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	RACK4 , RACK5	ET200M RACK	SIEMENS	6ES7195-1GF30-0XA0	2
2	A4.2 , A4.3 A5.2 , A5.3	ET200M	SIEMENS	6ES7153-2BA10-0XB0	4
3	A5.4 , A5.5 , A4.4 , A4.5 ,	ANALOG INPUT MODULE	SIEMENS	6ES7336-4GE00-0AB0	4
4	A4.6,A4.8,A4.9,A5.6,A 5.8,A5.9	ANALOG INPUT MODULE	SIEMENS	6ES7331-7TF01-0AB0	6
5	A3.9 , A4.9	ANALOG OUTPUT MODULE	SIEMENS	6ES7332-8TF01-0AB0	2
6	CP01,CP02	CP341	SIEMENS	6ES7341-1CH02-0AE0	2
7	XIM	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
8	XAI-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	13
9	XAI-M	TERMINAL NO. 2.5	RAAD	RTP2.5	9
10	XAO-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	2
11	XAO-M	TERMINAL NO. 2.5	RAAD	RTP2.5	2
12	XP-D	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	14
13	XN-D	TERMINAL NO. 2.5	RAAD	RTP2.5	14
14	XP-BR	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	44
15	XN-BR	TERMINALL Double 4	RAAD	DRTP4	22
16	XDAO	Diode TERMINAL NO. 2.5	RAAD	RDT2.5 CD RT/SK1.5 - D	4
17	XCP	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	2+2
18	XESD	TERMINAL NO. 2.5	RAAD	RTP2.5	30
19	XP-RE	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	14
20	XN-RE	TERMINAL NO. 2.5	RAAD	RTP2.5	13
21	RE1.....RE15	Coupling relay for SIL 3 high and low-demand applications, couples digital output signals to the I/O, 1 enabling current path, 1 confirmation current path, 1 digital signal output, safe state off applications, test pulse filter, fixed screw terminal block	PHOENIX	2700356	15
22	XP-RB	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	22
23	VM01 ,...VM04	Displacement Input Thrust Signal Conditioner	SHINKAWA	VM-21T1-22C02-1	3

REV.		DESCRIPTION		BY	DATE	CHK.	APP.	AUT.
V00		Rev.004		IPR	NAVARAS	NAVARAS	NAVARAS	NAVARAS
REV.		DATE		P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION								
PROJECT NO.: 971020								
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):				
NAVARAS				PETROIRAN DEVELOPMENT COMPANY				
NAVARAS ENERGY - DESIGN & INSPECTION COMPANIES				PEIDCO				
DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING				NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
SCALE: AS				DRAWING NO. BK-GCS-HY-120-IN-DW-0002		SHEET NO. 8 OF 36		REV. V00
APPROVED FOR CONSTRUCTION BY:				DATE:		BY:		
BUDGET REF.				LOCATION		SIZE CLASS		SERIAL NO.
SHEET				REVISION		DATE		



CELL 3 REAR VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	BR1...BR10	SIL 2 Repeater Power Supply and Trip Amplifiers	GMI	D1054S	10
2	BR11...BR14	I.S. SIL2 Multifunction Temperature Converter	GMI	D1054S	4
3	BR15...BR22	REPEATER POWER SUPPLY single channel, 4/20mA, HART® for 2- or 3-wire transmitters, two outputs	MTL	MTL5544D	8
4	BR23, ... , BR38	ISOLATED BARRIER	MTL	MTL5544	16
5	BR39....BR42	MTL5531 VIBRATION TRANSDUCER INTERFACE	MTL	MTL5531	4
6	BR43.BR44	MTL4546/C/Y – MTL5546/Y ISOLATING DRIVER	MTL	MTL5546	2
7	D1...D14	SIL3 2/4-Wire HART® Transmitter Power Supply	GMI	D6014D	14
8	XA1	IS KNIFE TERMINAL BLUE NO. 2.5	RAAD	RDT2.5	38
9	XA2	IS KNIFE TERMINAL BLUE NO. 2.5	RAAD	RDT2.5	38
10	XA3	IS KNIFE TERMINAL BLUE NO. 2.5	RAAD	RDT2.5	14
11	XA4	IS KNIFE TERMINAL BLUE NO. 2.5	RAAD	RDT2.5	14
12	XA5	IS KNIFE TERMINAL BLUE NO. 2.5	RAAD	RDT2.5	36
13	XA6	IS KNIFE TERMINAL BLUE NO. 2.5	RAAD	RDT2.5	21
14	COMMON LAPTOP	i5-8GBRAM-500SSD-15.6 INCH	Lenovo/ASUS	TBD	1
15	COMMON IPC	Advantech -1TB-Core i5 - Ram 8GB-Monitor 24 Inch-with mouse & Keyboard	Advantech	TBD	1

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.

DESCRIPTION

BY

DATE

CHECKED

REV. APPR.

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EPD/EPC CONTRACTOR (GC):

EPD/EPC CONTRACTOR (GC):

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY:

DATE:

DRAWING TITLE:

CONTROL SYSTEM CABINETS AND CONSOLES

LAYOUT DRAWING

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION

SIZE

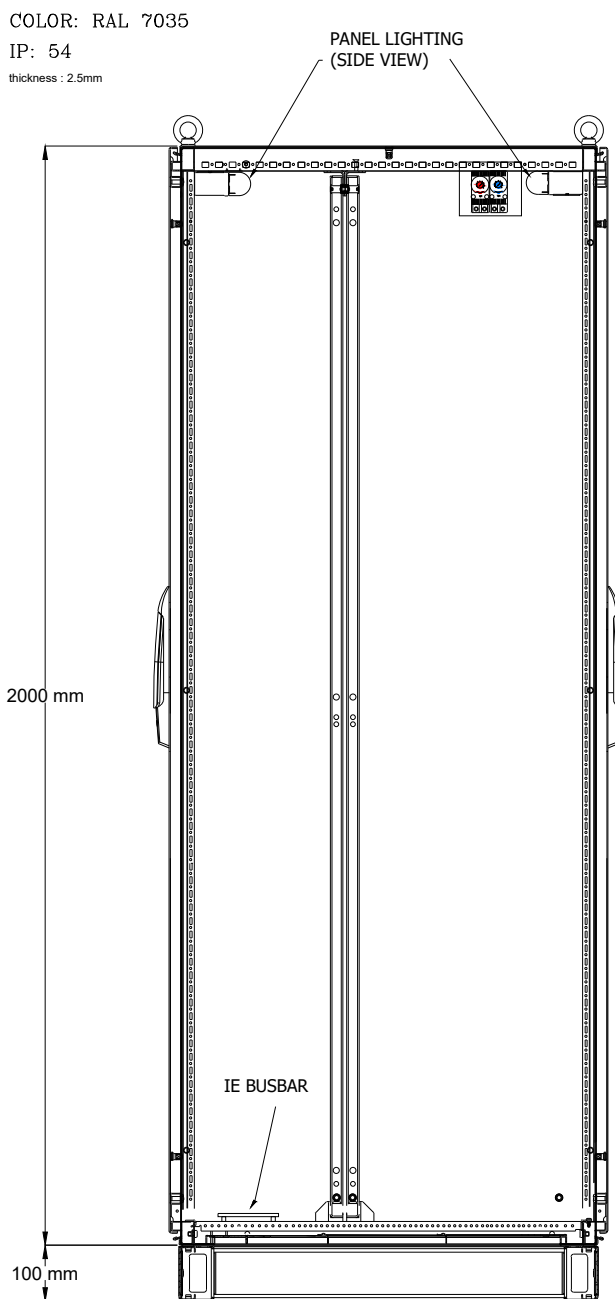
CLASS

SERIAL NO.

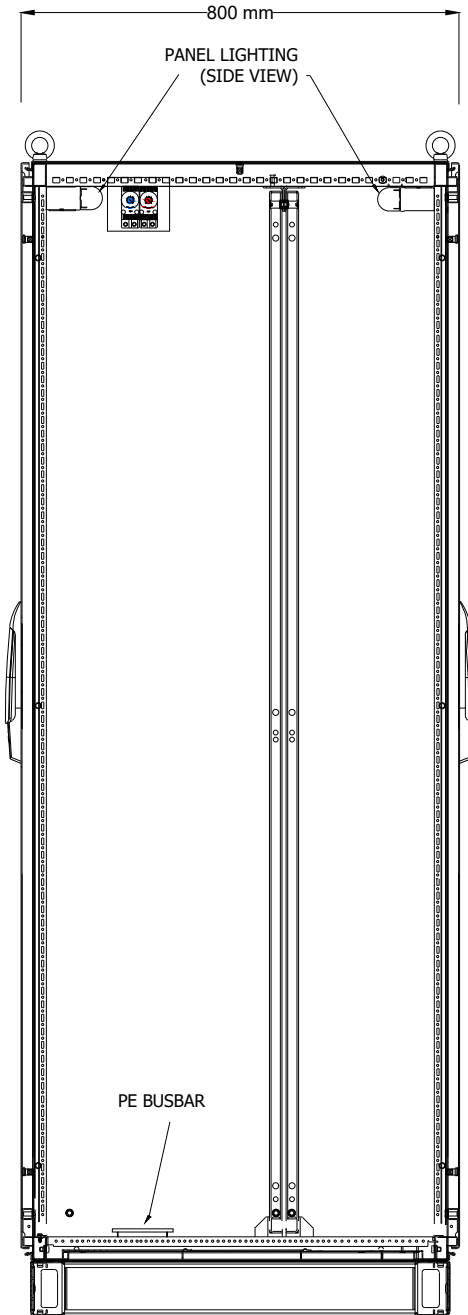
SHEET

REVISION

CUBICLE:
TYPE: RITTAL TYPE TAVAN SANAT FREE-STANDING, DUAL ACCESS
SIZE: 800*2000*800mm+100mm PLINTH
COLOR: RAL 7035
IP: 54
thickness : 2.5mm



LEFT VIEW (SIDEWALL REMOVED)

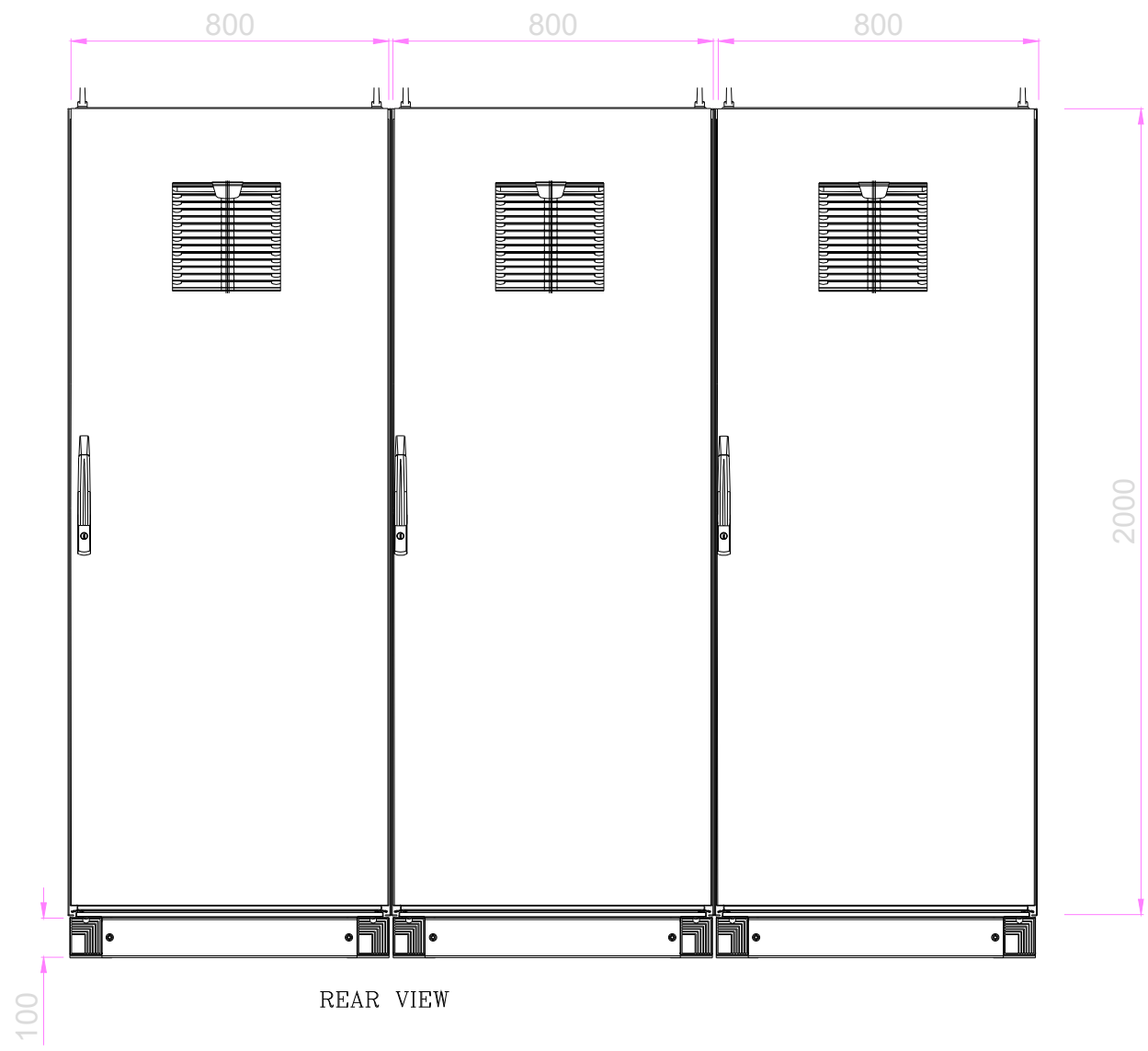


RIGHT VIEW (SIDEWALL REMOVED)



MOUNTING PANEL

NOTES									
LEGEND									
REFERENCE DRAWING									
DRG. No.									
KEY PLAN									
REV. DESCRIPTION									
BY DATE									
CHECKED									
REV. APPR.									
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION									
PROJECT NO.: 971020									
EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES									
EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY									
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS									
DATE SCALE DRAWING BY CHECKED BY PROJECT ENG.									
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION BY: DATE:									
SCALE SIZE DRAWING NO. SHEET NO. REV. BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION									
***** A3 BK-GCS-HY-120-IN-DW-0002 10 OF 36 V00									



REAR VIEW

NOTES

LEGEND

REFERENCE DRAWING

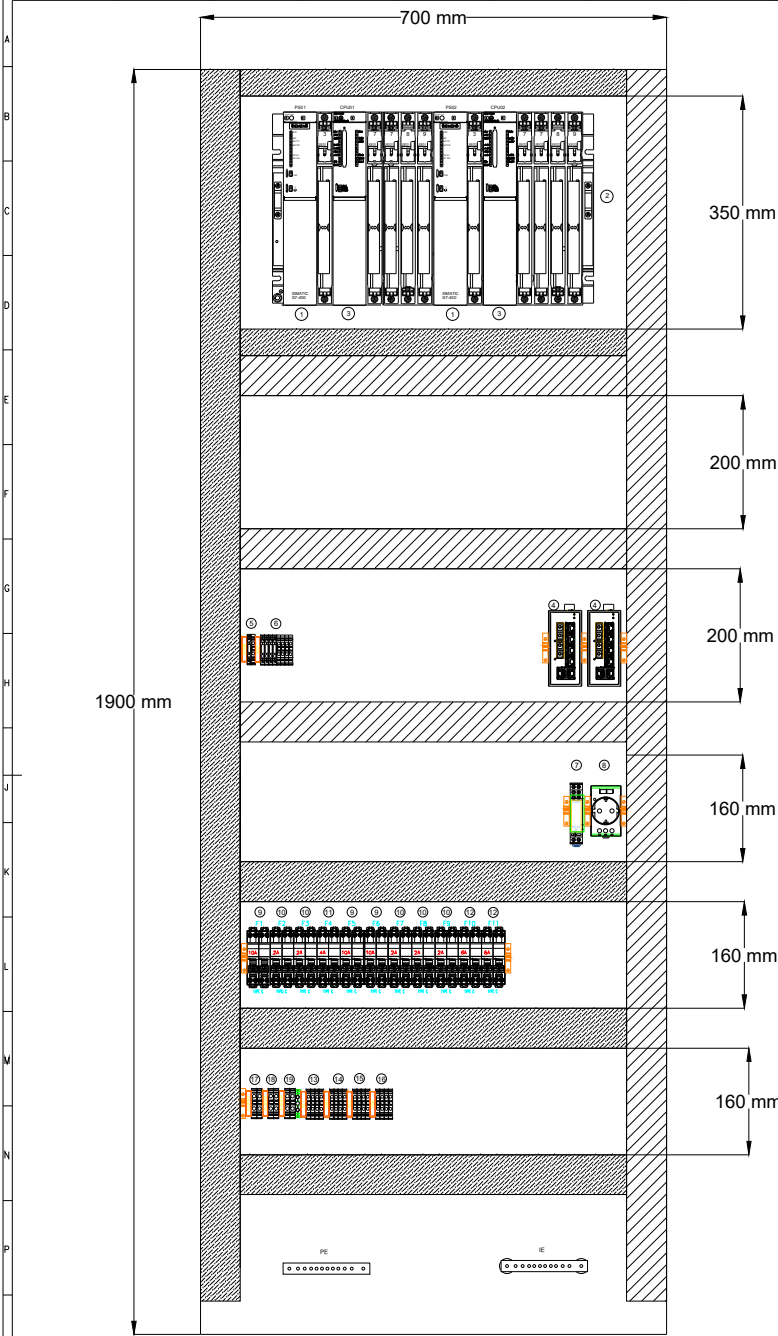
DRG. No.

KEY PLAN

REV.		DESCRIPTION		BY	DATE	CHECKED	BY	DATE	REV.	APPR.
V00		Rev. 0001		IPR		NAVARA	NAVARA	NAVARA		
REV.		DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.			
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION										
PROJECT NO.: 971020										
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION		
								DATE		
MURBAN ENERGY - DESIGN & INSPECTION COMPANIES				PEIDCO				DRAWING BY		
								CHECKED BY		
								PROJECT ENG.		
DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING										
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED										
APPROVED FOR CONSTRUCTION BY: DATE:										
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.
*****	A3	BK-GCS-HY-120-IN-DW-0002		11 OF 36	V00					







CELL 1 FRONT VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	PS01,PS02	PS407-10A	SIEMENS	6ES7407-0KA02-0AA0	2
2	RACK1	UR2H	SIEMENS	6ES7400-2JA00-0AA0	1
3	CPU01 , CPU02	CPU 414-5H	SIEMENS	6ES7414-5HM06-0AB0	2
4	SC01 , SC02	Ethernet switche	SIEMENS	6GK5108-0BA00-2AA3	2
5	X-HMI	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	1+1
6	XSC	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
7	RF	RELAY 2PDT 110V	FINDER	N/A	1
8	REC	OUTLET Socket	RAAD	DSO-LD	1
9	F1 , F5 , F6	2P-10A-AC -TYPE: C	SIEMENS	5SL6210-7	3
10	F2,F3,F7,F8,F9	2P-2A-AC -TYPE: C	SIEMENS	5SL6202-7	2
11	F4	2P-4A-AC -TYPE: C	SIEMENS	5SL624-7	1
12	F10, F11	2P-6A-AC -TYPE: C	SIEMENS	5SL626-7	1
13	XL1	TERMINAL NO. 4	RAAD	RTP4	4
14	XN1	TERMINAL NO. 4	RAAD	RTP4	4
15	XL2	TERMINAL NO. 4	RAAD	RTP4	4
16	XN2	TERMINAL NO. 4	RAAD	RTP4	4
17	X-UPS1	TERMINAL NO. 6	RAAD	RTP6	2
18	X-UPS2	TERMINAL NO. 6	RAAD	RTP6	2
19	X-NUPS	TERMINAL NO. 6 + EARTH TERMINAL NO. 6	RAAD	RTP6 + TB 6 PEI	2+1
20	CUBICLE	RITTAL TYPE FREE-STANDING, DUAL ACCESS 800*2000*800mm +100mm PLINTH	TAVAN SANAT	RAL 7035 - IP54-2.5mm	3

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.

DESCRIPTION

BY

DATE

CHECKED

REV. APPR.

DATE

PROJECT NO.:

971020

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EPD/EPC CONTRACTOR:

IRANIAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC):

PETROIRAN DEVELOPMENT COMPANY

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

DRAWING TITLE:

CONTROL SYSTEM CABINETS AND CONSOLES

APPROVED FOR CONSTRUCTION BY:

DATE:

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

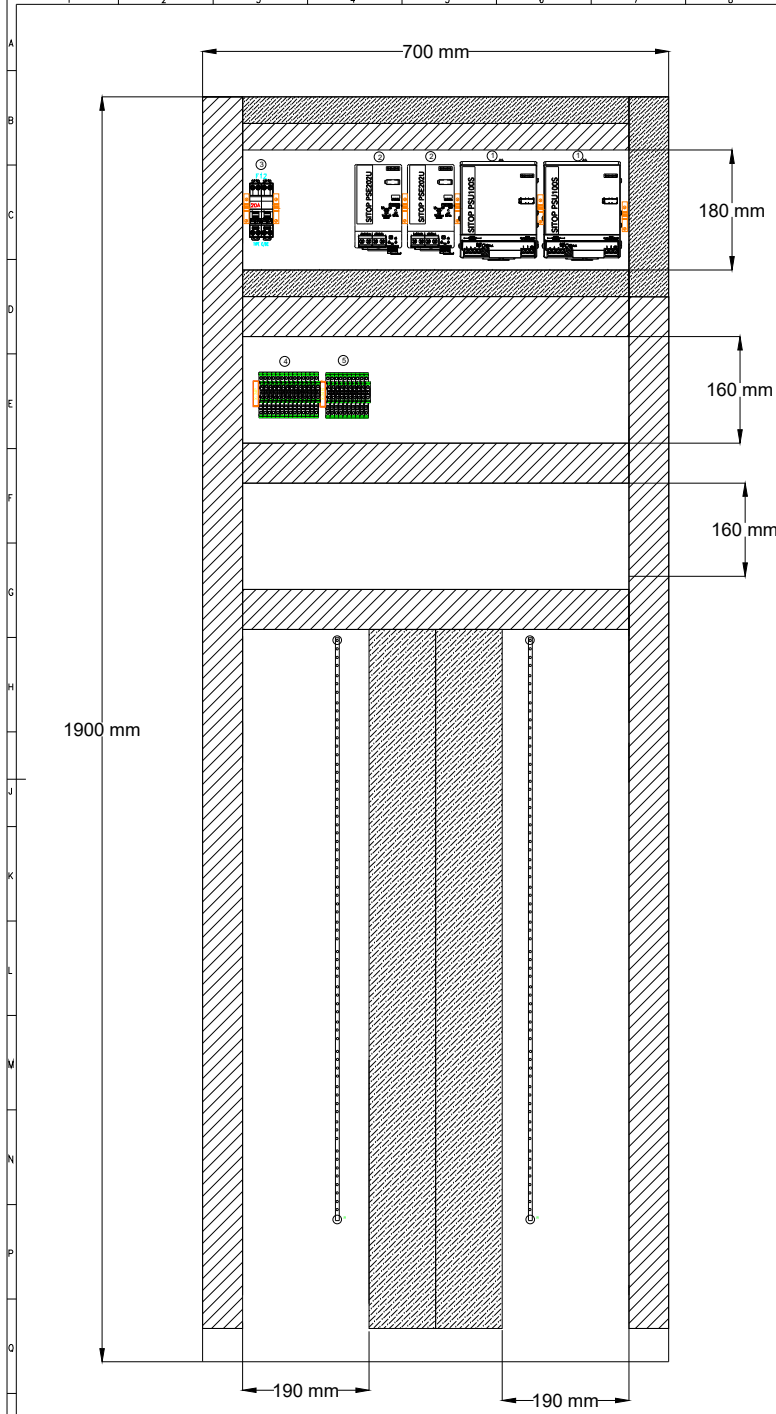
LOCATION

SIZE CLASS

SERIAL NO.

SHEET

REVISION



CELL 1 REAR VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	PS03 , PS04	SITOP-PS	SIEMENS	6EP1336-2BA10	2
2	PR01	POWER REDUNDANT MODULE	SIEMENS	6EP1961-3BA21	2
3	F11	2P-20A-DC -TYPE: C	SIEMENS	5SL6220-6	1
4	X-24P	D TERMINAL NO.4	RAAD	DRTP4	14
5	X-24N	D TERMINAL NO.4	RAAD	DRTP4	10

NOTES

LEGEND

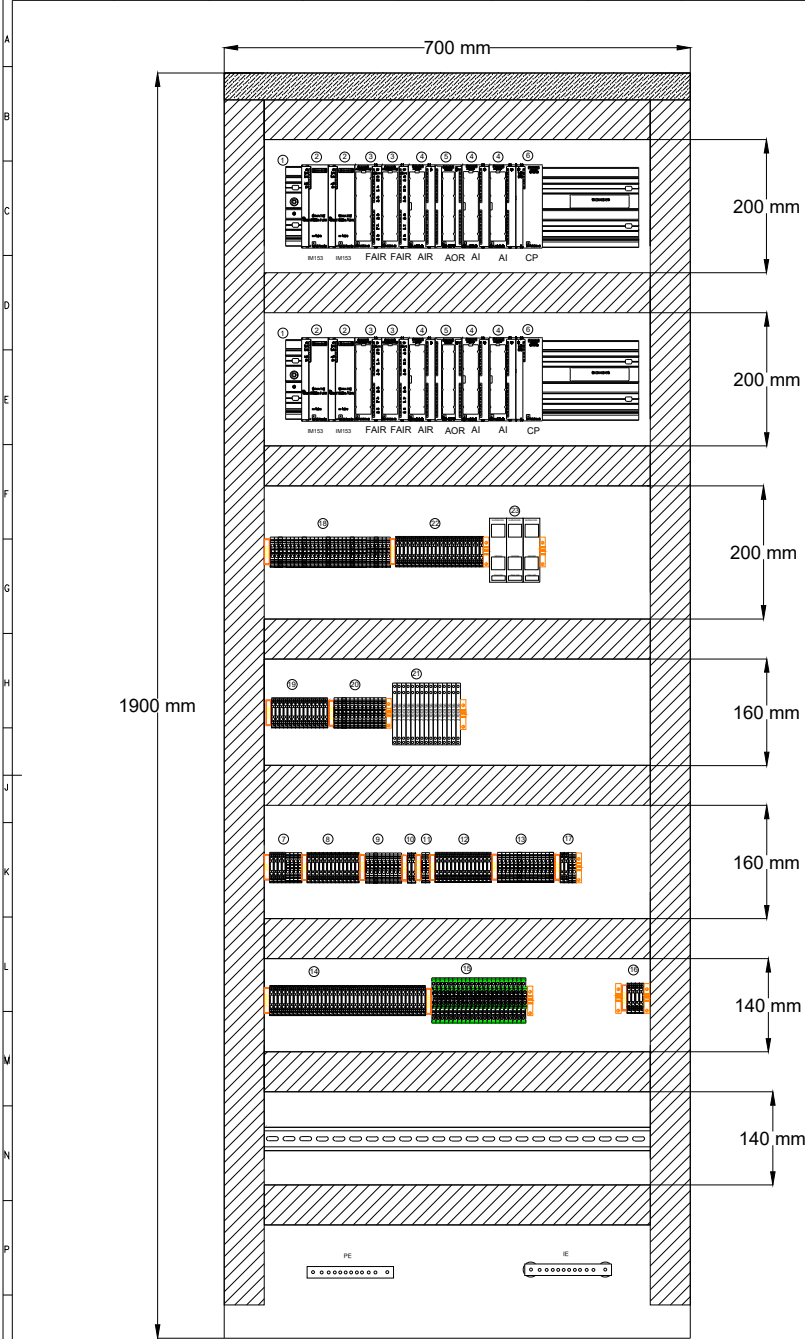
REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.		DESCRIPTION		BY	DATE	CHK.	APP.	AUT.
V00		Rev. 0001		IPR	NAVARA	U.Fakhran	Shamspour	
REV.		DATE		P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION								
PROJECT NO.: 971020								
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):				
MURBAN ENERGY - DESIGN & INSPECTION COMPANIES				PETROIRAN DEVELOPMENT COMPANY				
DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING				NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
SCALE: AS				DRAWING NO. BK-GCS-HY-120-IN-DW-0002		SHEET NO. 10 OF 36		REV. V00
APPROVED FOR CONSTRUCTION BY:				DATE:		BY:		
LOCATION				SIZE		CLASS		SERIAL NO.
SHEET				REVISION				

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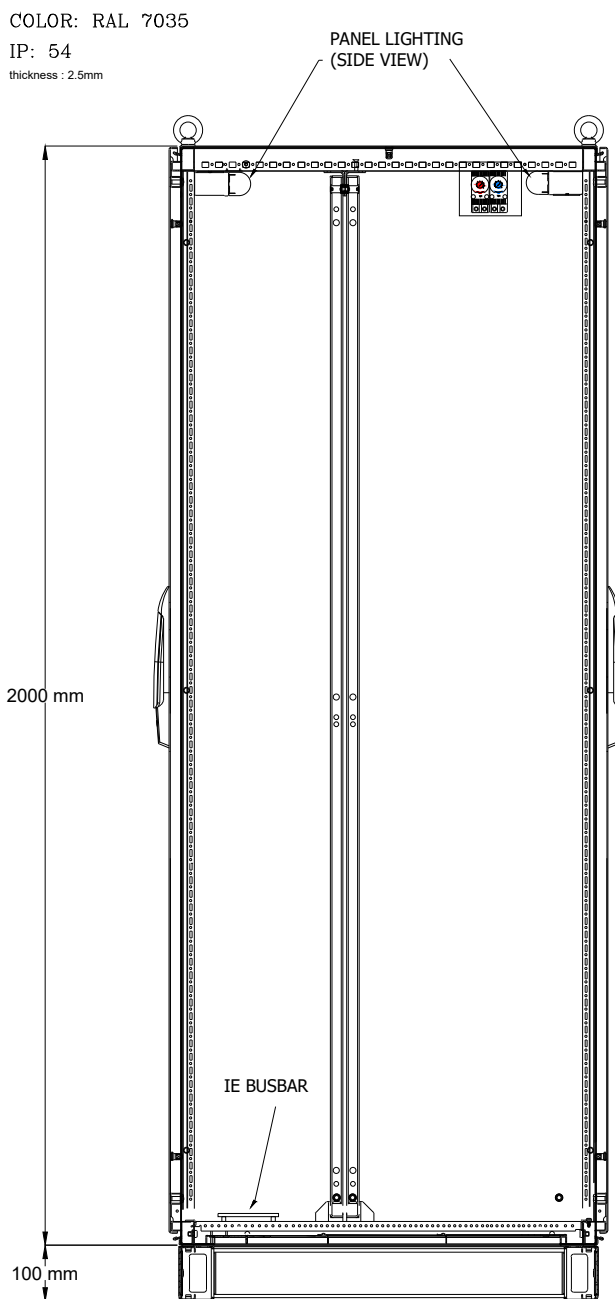


CELL 3 FRONT VIEW

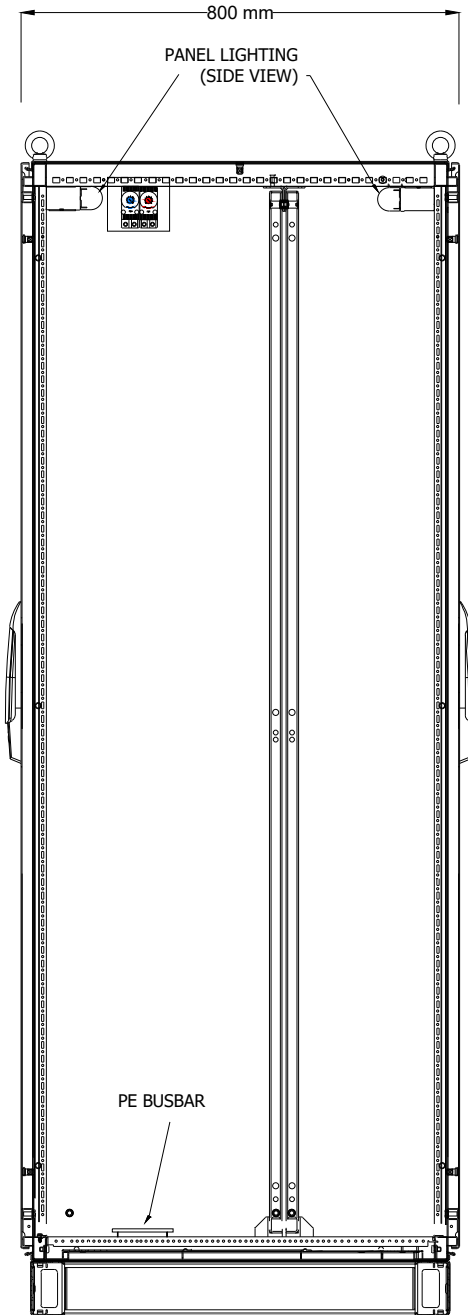
BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	RACK4 , RACK5	ET200M RACK	SIEMENS	6ES7195-1GF30-0XA0	2
2	A4.2 , A4.3 A5.2 , A5.3	ET200M	SIEMENS	6ES7153-2BA10-0XB0	4
3	A5.4 , A5.5 , A4.4 , A4.5 ,	ANALOG INPUT MODULE	SIEMENS	6ES7336-4GE00-0AB0	4
4	A4.6,A4.8,A4.9,A5.6,A 5.8,A5.9	ANALOG INPUT MODULE	SIEMENS	6ES7331-7TF01-0AB0	6
5	A3.9 , A4.9	ANALOG OUTPUT MODULE	SIEMENS	6ES7332-8TF01-0AB0	2
6	CP01,CP02	CP341	SIEMENS	6ES7341-1CH02-0AE0	2
7	XIM	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
8	XAI-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	13
9	XAI-M	TERMINAL NO. 2.5	RAAD	RTP2.5	9
10	XAO-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	2
11	XAO-M	TERMINAL NO. 2.5	RAAD	RTP2.5	2
12	XP-D	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	14
13	XN-D	TERMINAL NO. 2.5	RAAD	RTP2.5	14
14	XP-BR	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	44
15	XN-BR	TERMINALL Double 4	RAAD	DRTP4	22
16	XDAO	Diode TERMINAL NO. 2.5	RAAD	RDT2.5 CD RT/SK1.5 - D	4
17	XCP	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	2+2
18	XESD	TERMINAL NO. 2.5	RAAD	RTP2.5	30
19	XP-RE	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	14
20	XN-RE	TERMINAL NO. 2.5	RAAD	RTP2.5	13
21	RE1.....RE15	Coupling relay for SIL 3 high and low-demand applications, couples digital output signals to the I/O, 1 enabling current path, 1 confirmation current path, 1 digital signal output, safe state off applications, test pulse filter, fixed screw terminal block	PHOENIX	2700356	15
22	XP-RB	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	22
23	VM01 ,...VM04	Displacement Input Thrust Signal Conditioner	SHINKAWA	VM-21T1-22C02-1	3

REV.		DESCRIPTION		BY	DATE	CHK.	APP.	AUT.
V00		Rev.004		IPR	NAVARAS	NAVARAS	NAVARAS	NAVARAS
REV.		DATE		P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION								
PROJECT NO.: 971020								
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):				
MURBAN ENERGY - DESIGN & INSPECTION COMPANIES				PETROIRAN DEVELOPMENT COMPANY				
DATE				SCALE		DRAWING BY		CHECKED BY
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				APPROVED FOR CONSTRUCTION BY:				
SCALE				SIZE		DRAWING NO.		SHEET NO.
*****				A3		BK-GCS-HY-120-IN-DW-0002		10 OF 36
BUDGET REF.				LOCATION		SIZE CLASS		REVISION
20				21		22		23

CUBICLE:
TYPE: RITTAL TYPE TAVAN SANAT FREE-STANDING, DUAL ACCESS
SIZE: 800*2000*800mm+100mm PLINTH
COLOR: RAL 7035
IP: 54
thickness : 2.5mm



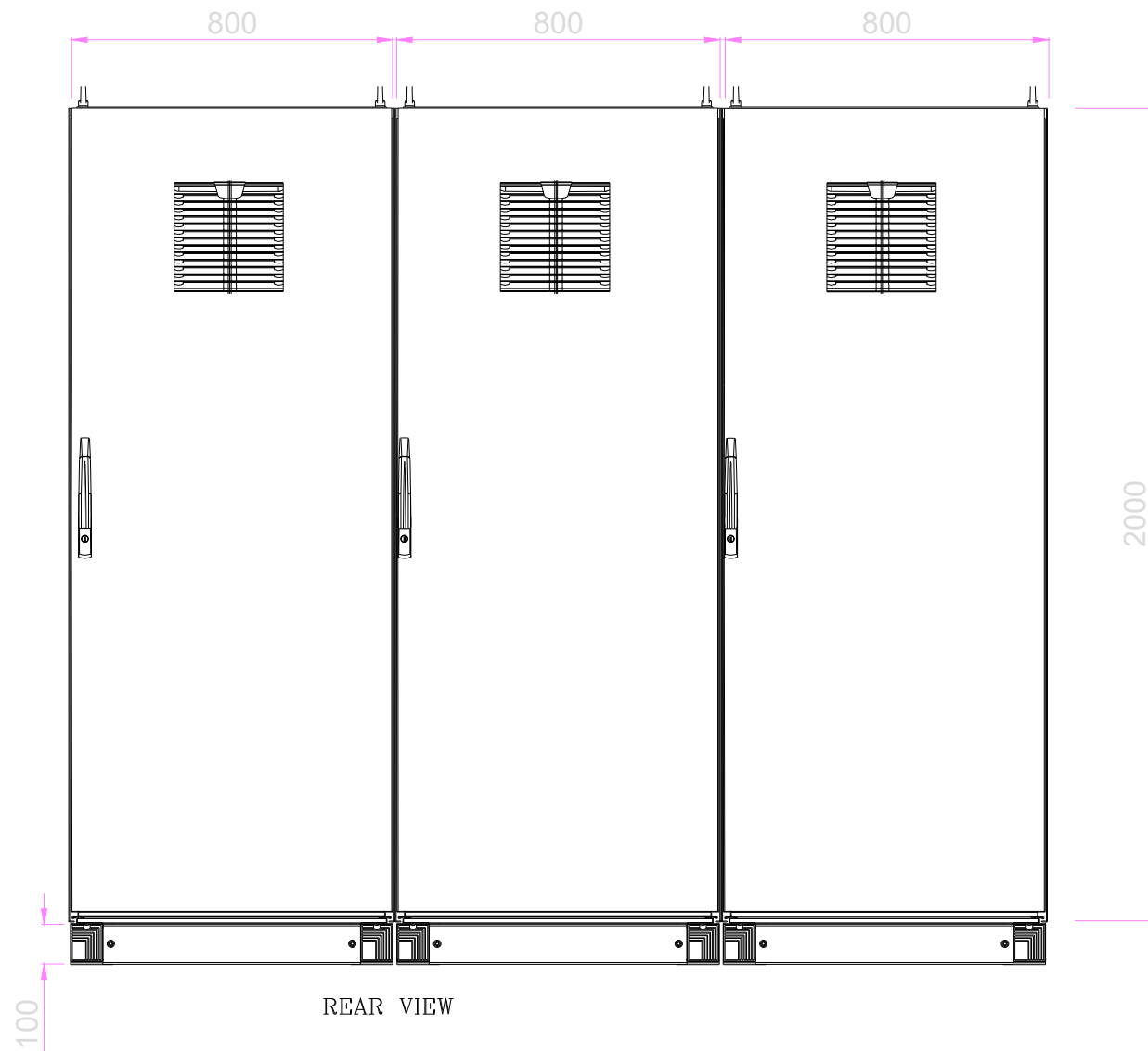
LEFT VIEW (SIDEWALL REMOVED)



RIGHT VIEW (SIDEWALL REMOVED)

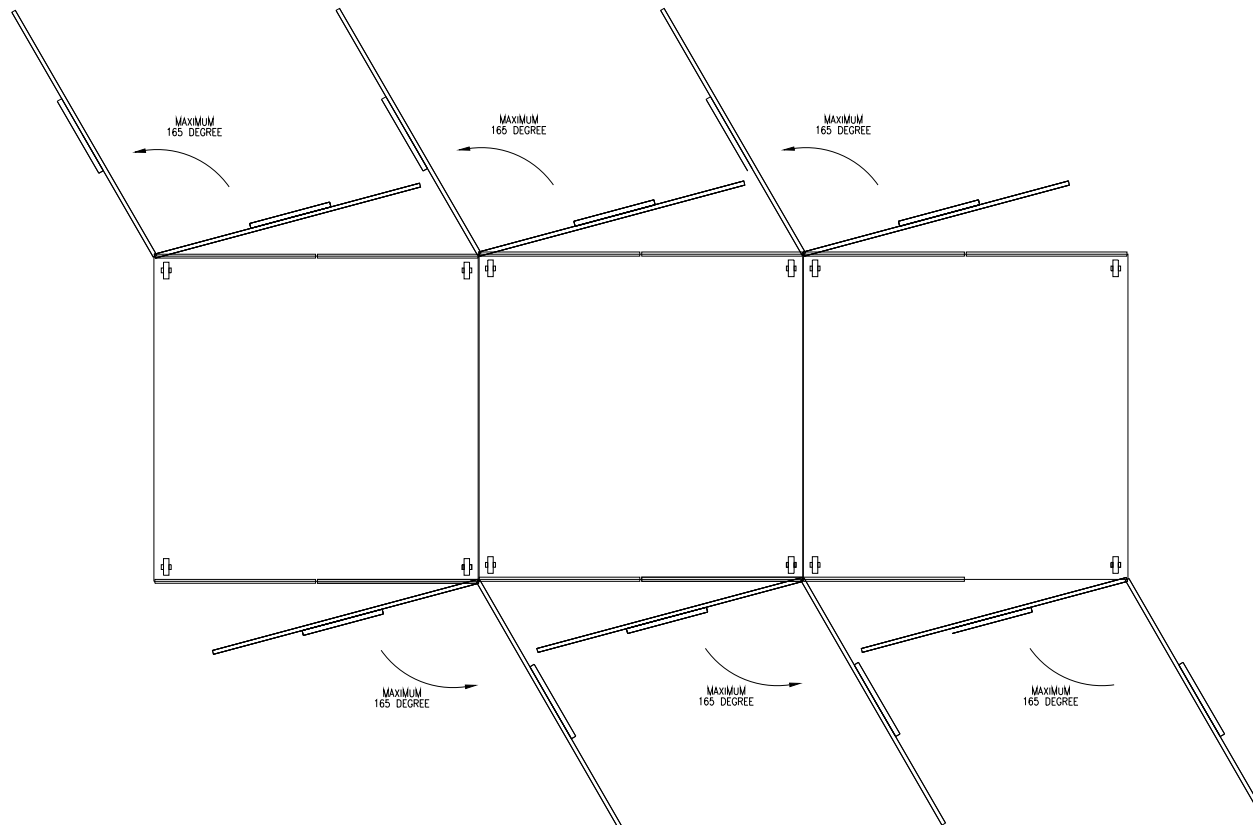


MOUNTING PANEL



REAR VIEW

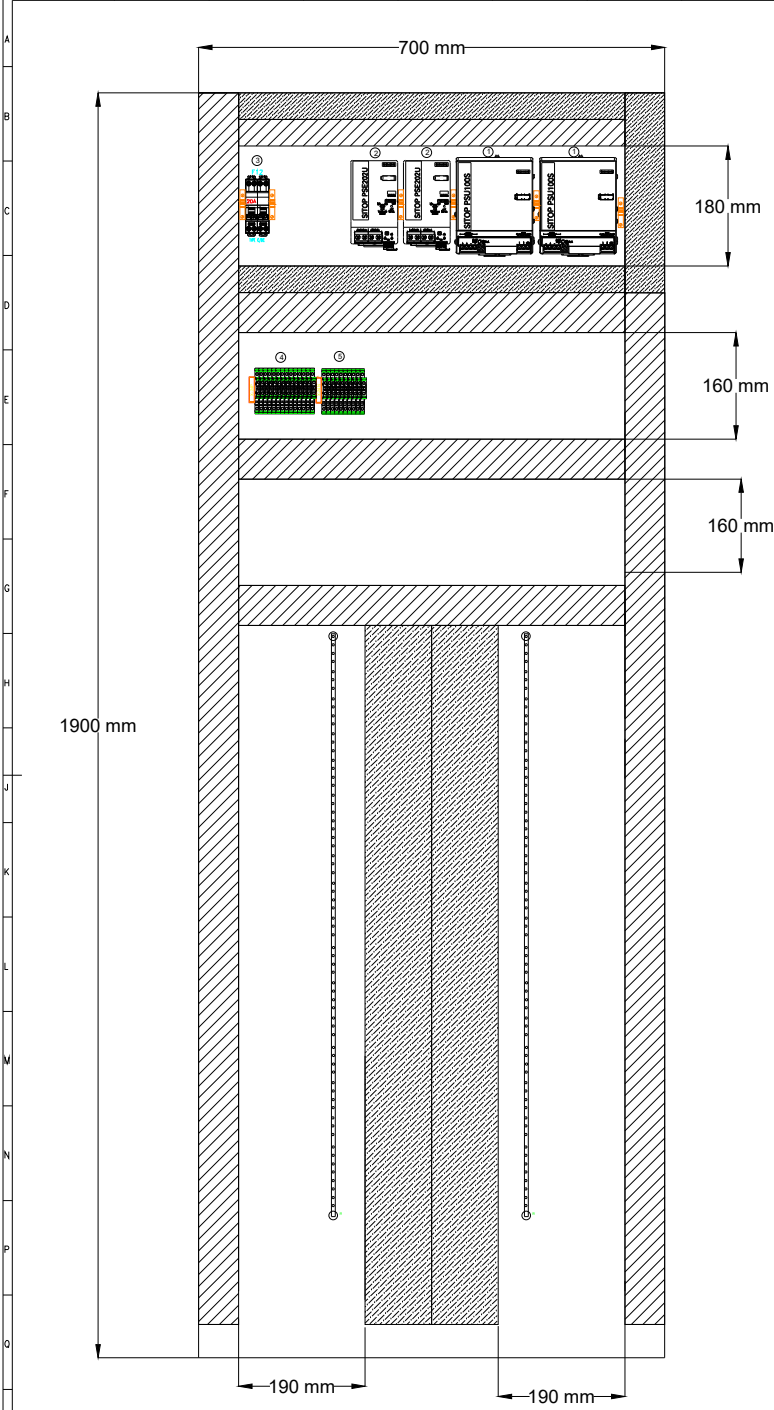
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V00	Rev. 0001	IFR	NAVARA, G.	NAVARA, G.	NAVARA, G.	NAVARA, G.	NAVARA, G.	NAVARA, G.	NAVARA, G.	NAVARA, G.
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	REV.	DATE	BY <td>DATE</td>	DATE
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION							971020			
EPC CONTRACTOR: HURGAN ENERGY - DESIGN & INSPECTION COMPANIES							EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED			
SCALE: AS							APPROVED FOR CONSTRUCTION BY: DATE:			
DRAWING NO. BK-GCS-HY-120-IN-DW-0002							SHEET NO. 22 OF 36			
REV. V00							BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION			



DOOR SWINGING VIEW

NOTES									
LEGEND									
REFERENCE DRAWING									
DRG. No.									
KEY PLAN									
REV. DESCRIPTION BY DATE BY DATE									
V00 0000000000 00.00.0000 00.00.0000 00.00.0000									
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION									
PROJECT NO.: 971020									
EPC CONTRACTOR: HURGAN ENERGY - DESIGN & INSPECTION COMPANIES					EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY				
DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING					NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
SCALE: AS					APPROVED FOR CONSTRUCTION BY: DATE:				
DRAWING NO. BK-GCS-HY-120-IN-DW-0002					SHEET NO. 24 OF 36				
REV. V00					BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION				





CELL 1 REAR VIEW

BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	PS03 , PS04	SITOP-PS	SIEMENS	6EP1336-2BA10	2
2	PR01	POWER REDUNDANT MODULE	SIEMENS	6EP1961-3BA21	2
3	F11	2P-20A-DC -TYPE: C	SIEMENS	5SL6220-6	1
4	X-24P	D TERMINAL NO.4	RAAD	DRTP4	14
5	X-24N	D TERMINAL NO.4	RAAD	DRTP4	10

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.

DESCRIPTION

BY

DATE

CHECKED

REV.

APPR.

PROJECT NAME:

BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.:

971020

EPC CONTRACTOR:

IRANIAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC):

PETROIRAN DEVELOPMENT COMPANY

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DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

DRAWING TITLE:

CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION

SIZE

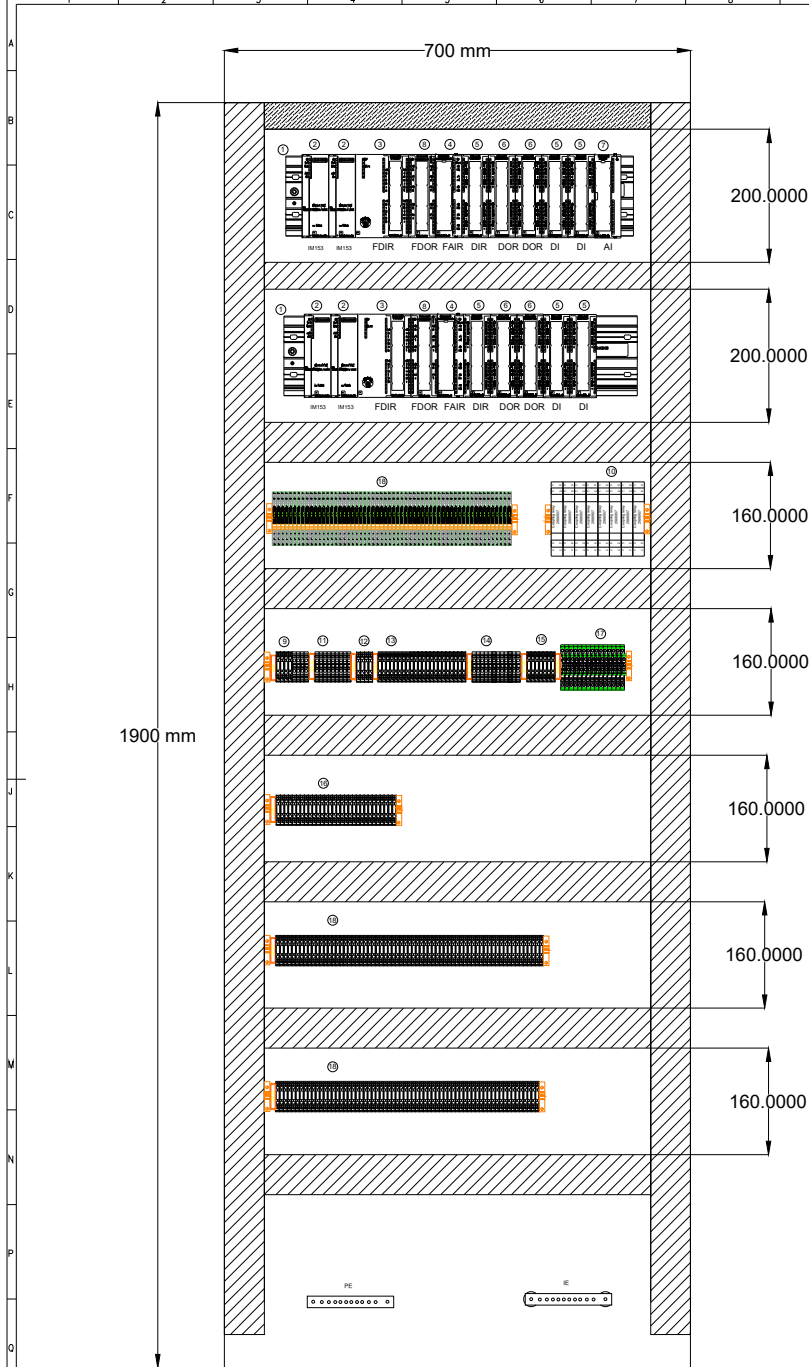
CLASS

SERIAL NO.

SHEET

REVISION





BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	RACK 2,3	ET200M RACK	SIEMENS	6ES7195-1GF30-0XA0	2
2	A2.2 , A2.3,A3.2,A3.3	ET200M	SIEMENS	6ES7153-2BA10-0XB0	4
3	A2.4 , A3.4	DIGITAL INPUT MODULE	SIEMENS	6ES7326-1BK02-0AB0	2
4	A2.6,A3.6	ANALOG INPUT MODULE	SIEMENS	6ES7336-4GE00-0AB0	2
5	A3.7,A2.10,A2.11,A3.10,A3.11	DIGITAL INPUT MODULE	SIEMENS	6ES7321-1BL00-0AA0	6
6	A2.8 , A2.9,A3.8,A3.9	DIGITAL OUTPUT MODULE	SIEMENS	6ES7322-1BL00-0AA0	4
7	A2.12	ANALOG INPUT MODULE	SIEMENS	6ES7331-7TF01-0AB0	1
8	A2.5,A3.5	DIGITAL OUTPUT MODULE	SIEMENS	6ES7326-2BF10-0AB0	2
9	XIM	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
10	RF1,...,RF6	PSR-SPP- 24DC/FSP/2X1/1X2 - Coupling relay	PHONEIX	2986957	8
11	XDI-M	TERMINAL NO. 2.5	RAAD	RTP2.5	9
12	XDI-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	4
13	XDO-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	22
14	XDO-M	TERMINAL NO. 2.5	RAAD	RTP2.5	12
15	XP-DIF	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	6
16	XRC1	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	30
17	XN-DO	TERMINALL Double 4	RAAD	DRTP4	15
18	XP-DI	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	135
19	R1,..., R58	RELAY 1PDT	PHONEIX	2966171	58

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.

DESCRIPTION

BY

DATE

CHECKED

REV.

DATE

PROJECT NAME:

PROJECT NO.:

EPC CONTRACTOR:

EPD/EPC CONTRACTOR (GC):

DRAWING TITLE:

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION

SIZE

CLASS

SERIAL NO.

SHEET

REVISION

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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

SCALE

SIZE

DRAWING NO.

SHEET NO.

REV.

BUDGET REF.

LOCATION

SIZE

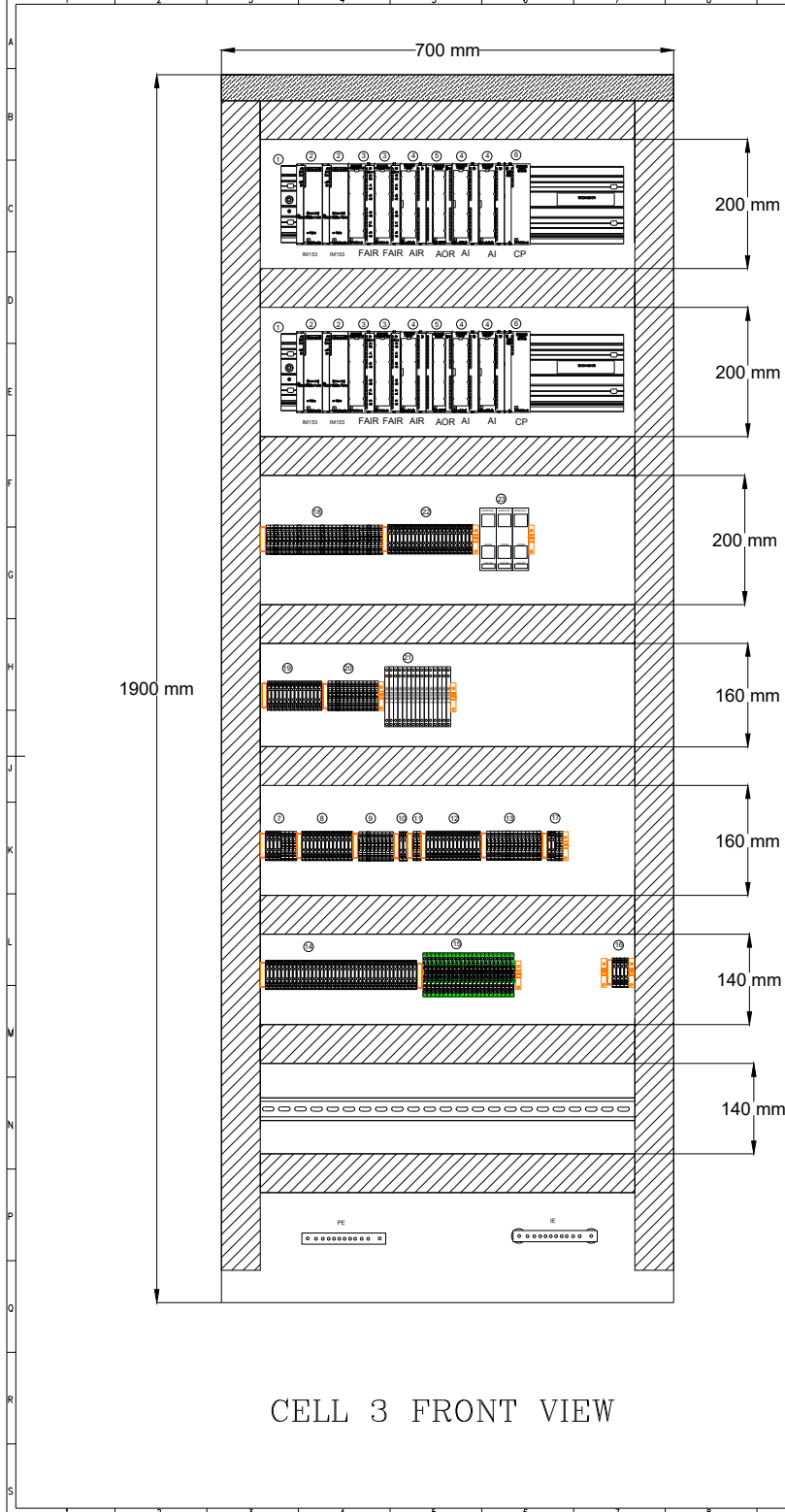
CLASS

SERIAL NO.

SHEET

REVISION

CELL 2 FRONT VIEW



CELL 3 FRONT VIEW

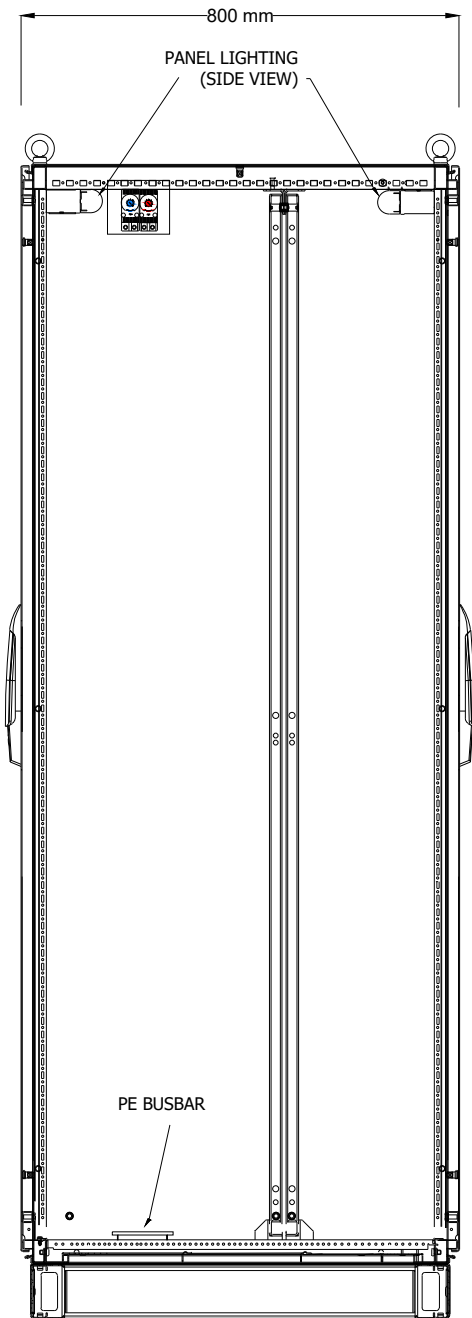
BOM					
ITEM	TAG NO.	DESCRIPTION	MANUFACTURER	ORDER NUMBER	QTY
1	RACK4 , RACK5	ET200M RACK	SIEMENS	6ES7195-1GF30-0XA0	2
2	A4.2 , A4.3 A5.2 , A5.3	ET200M	SIEMENS	6ES7153-2BA10-0XB0	4
3	A5.4 , A5.5 , A4.4 , A4.5 ,	ANALOG INPUT MODULE	SIEMENS	6ES7336-4GE00-0AB0	4
4	A4.6,A4.8,A4.9,A5.6,A 5.8,A5.9	ANALOG INPUT MODULE	SIEMENS	6ES7331-7TF01-0AB0	6
5	A3.9 , A4.9	ANALOG OUTPUT MODULE	SIEMENS	6ES7332-8TF01-0AB0	2
6	CP01,CP02	CP341	SIEMENS	6ES7341-1CH02-0AE0	2
7	XIM	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	4+4
8	XAI-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	13
9	XAI-M	TERMINAL NO. 2.5	RAAD	RTP2.5	9
10	XAO-L	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	2
11	XAO-M	TERMINAL NO. 2.5	RAAD	RTP2.5	2
12	XP-D	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	14
13	XN-D	TERMINAL NO. 2.5	RAAD	RTP2.5	14
14	XP-BR	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	44
15	XN-BR	TERMINALL Double 4	RAAD	DRTP4	22
16	XDAO	Diode TERMINAL NO. 2.5	RAAD	RDT2.5 CD RT/SK1.5 - D	4
17	XCP	FUSE TERMINALL NO. 2.5 +TERMINAL NO. 2.5	RAAD	RT/SK1.5-FLD + RTP2.5	2+2
18	XESD	TERMINAL NO. 2.5	RAAD	RTP2.5	30
19	XP-RE	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	14
20	XN-RE	TERMINAL NO. 2.5	RAAD	RTP2.5	13
21	RE1.....RE15	Coupling relay for SIL 3 high and low-demand applications, couples digital output signals to the I/O, 1 enabling current path, 1 confirmation current path, 1 digital signal output, safe state off applications, test pulse filter, fixed screw terminal block	PHOENIX	2700356	15
22	XP-RB	FUSE TERMINALL NO. 2.5	RAAD	RT/SK1.5-FLD	22
23	VM01 ,...VM04	Displacement Input Thrust Signal Conditioner	SHINKAWA	VM-21T1-22C02-1	3



REV.		DESCRIPTION		BY	DATE	CHK.	APP.	AUT.
V00		Rev. 0001		IPR	Rev. 0001	Rev. 0001	Rev. 0001	Rev. 0001
REV.		DATE		P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION								
PROJECT NO.: 971020								
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):				
HURGAN ENERGY - DESIGN & INSPECTION COMPANIES				PETROIRAN DEVELOPMENT COMPANY				
DRAWING TITLE: CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING				NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
SCALE: AS				DRAWING NO. BK-GCS-HY-120-IN-DW-0002		SHEET NO. 20 OF 36		REV. V00
APPROVED FOR CONSTRUCTION BY:				DATE:		BY:		
BUDGET REF.				LOCATION		SIZE CLASS		SERIAL NO.
SHEET				REVISION		DATE		

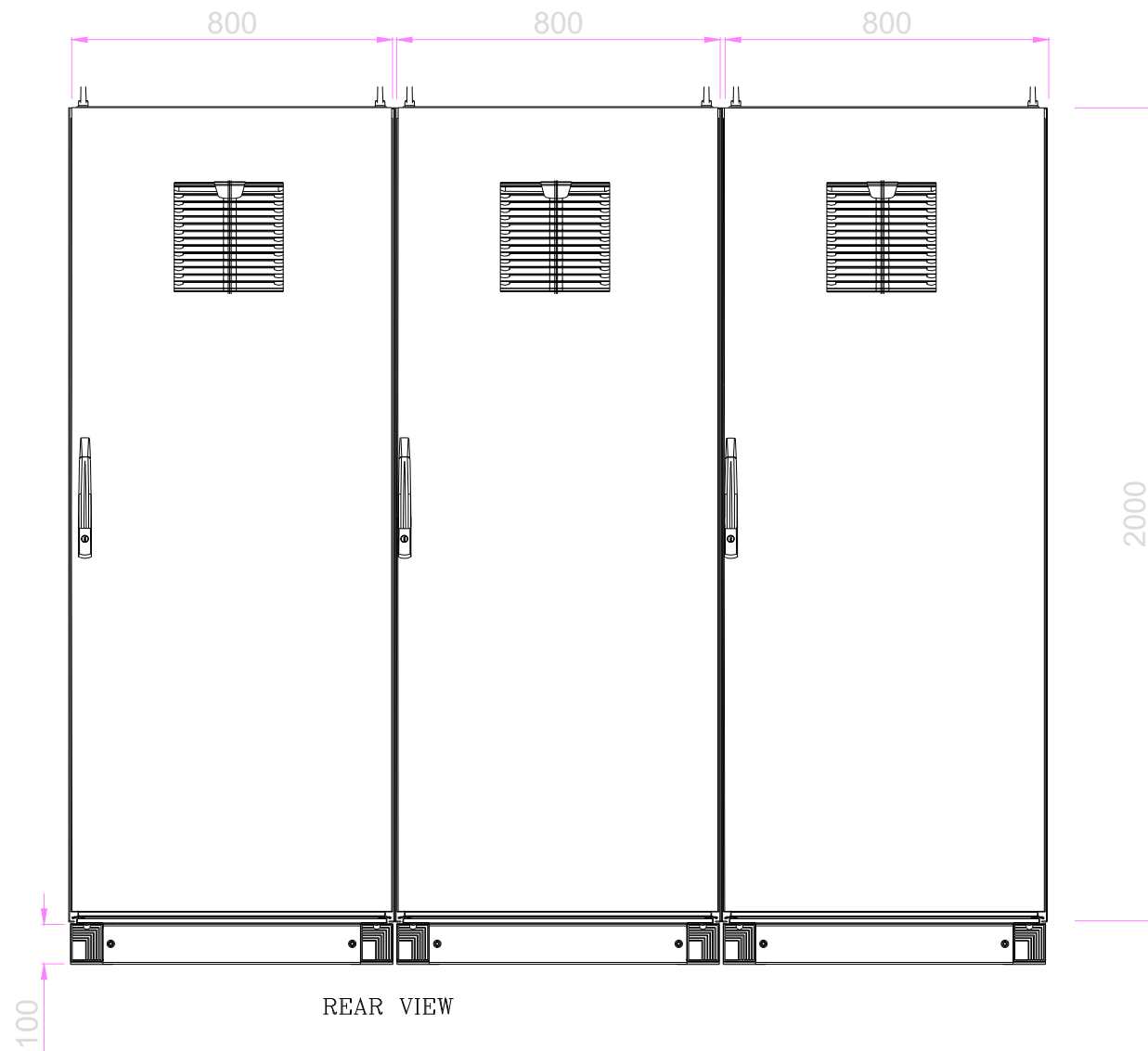
[illegible]

RIGHT VIEW (SIDEWALL REMOVED)



MOUNTING PANEL

[illegible]



REAR VIEW

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

REV.		DESCRIPTION		BY	DATE	CHECKED	BY	DATE	REV.	APPR.
V00		Rev. 0001		IPR		NAVARA.S	U.Fakhran	Shamspour		
REV.		DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.			
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION										
PROJECT NO.: 971020										
EPC CONTRACTOR:				EPD/EPC CONTRACTOR (GC):						
MURBAN ENERGY - DESIGN & INSPECTION COMPANIES				PETROIRAN DEVELOPMENT COMPANY						
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DATE		SCALE		DRAWING BY		CHECKED BY		PROJECT ENG.		
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED										
APPROVED FOR CONSTRUCTION BY: DATE:										
SCALE		SIZE		DRAWING NO.		SHEET NO.		REV.		BUDGET REF.
*****		A3		BK-GCS-HY-120-IN-DW-0002		33 OF 36		V00		
16		17		18		19		20		
21		22		23		24		25		



