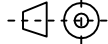



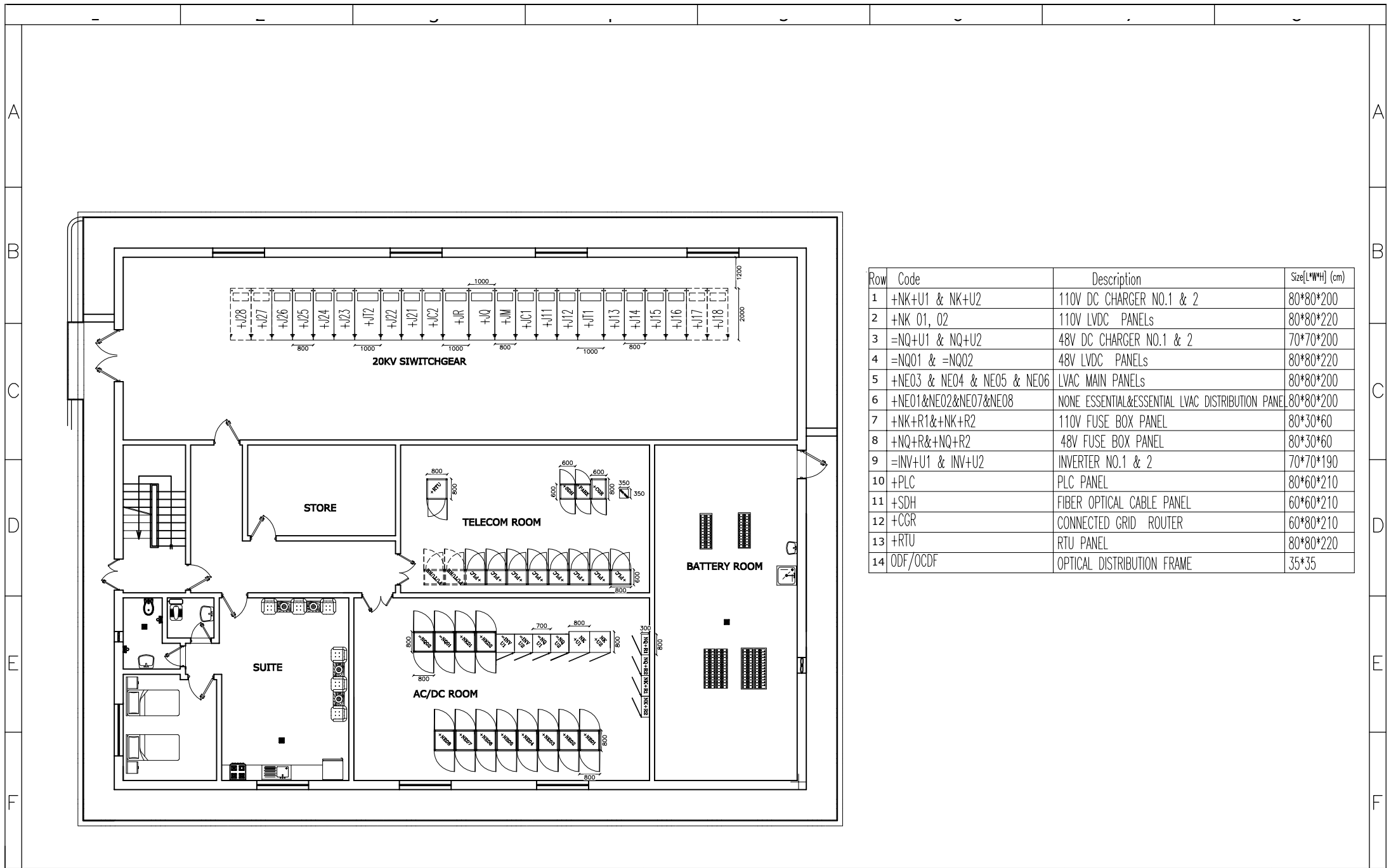


# AYATOLLAH BORUJERDI 230/63/20KV SUBSTATION



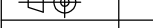

## CCR & BCR PANEL ARRANGEMENT

C				
B		S.SARABI	1402/04	ACC TO LETTER NO. BD-MIR-00070
A		S.SARABI	1402/02	ACC TO LETTER NO. MIR-CM-3190
Z		S.SARABI	1402/01	FIRST ISSUE
REV.	VERIFIED	DRAWN	DATE	DESCRIPTION
		DATE:	NAME:	SCALE: -      STANDARD:
DRAWN	1402/01	S.SARABI	SUBJECT: <b>AYATOLLAH BORUJERDI 230/63/20K SUBSTATION</b>  <b>CCR &amp; BCR PANEL ARRANGEMENT</b>	
DESIGNED	1402/01	S.SARABI		
CHECKED	1402/01	T.DADOLLAHI		
APPROVED	1402/01	N.HOSSEINI		
CONTRACT NO:			DRAWING NO: MT-SUB-BREC-6159-DD-01-SJ-001	
CONSULTANT:		CONTRACTOR:		CLIENT:
<b>MONENCO IRAN</b> CONSULTING ENGINEERS 		<b>AZARSKSH ENERGY</b> MOHAM SHARGH 		<b>WEST REGIONAL</b> ELECTRIC COMPANY 
CONSU. REF:		CONT. REF:		CLIEN REF:







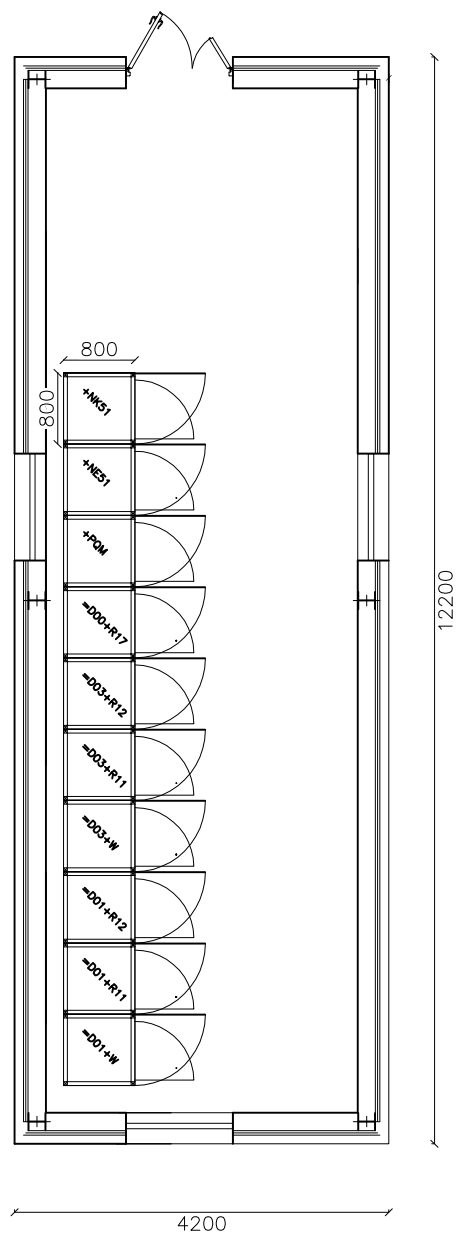


Row	Code	Description	Size[L*W*H] (cm)
1	+NK+U1 & NK+U2	110V DC CHARGER NO.1 & 2	80*80*200
2	+NK 01, 02	110V LVDC PANELs	80*80*220
3	=NQ+U1 & NQ+U2	48V DC CHARGER NO.1 & 2	70*70*200
4	=NQ01 & =NQ02	48V LVDC PANELs	80*80*220
5	+NE03 & NE04 & NE05 & NE06	LVAC MAIN PANELs	80*80*200
6	+NE01&NE02&NE07&NE08	NONE ESSENTIAL&ESSENTIAL LVAC DISTRIBUTION PANEL	80*80*200
7	+NK+R1&+NK+R2	110V FUSE BOX PANEL	80*30*60
8	+NQ+R&+NQ+R2	48V FUSE BOX PANEL	80*30*60
9	=INV+U1 & INV+U2	INVERTER NO.1 & 2	70*70*190
10	+PLC	PLC PANEL	80*60*210
11	+SDH	FIBER OPTICAL CABLE PANEL	60*60*210
12	+CGR	CONNECTED GRID ROUTER	60*80*210
13	+RTU	RTU PANEL	80*80*220
14	ODF/OCDF	OPTICAL DISTRIBUTION FRAME	35*35





C			<div>Consultant:</div> <div></div> <div><b>MONENCO IRAN</b> CONSULTING ENGINEERS</div>	<div>Client:</div> <div></div> <div>AZARKHSH ENERGY MOHAM SHARGH</div>	<div>Contractor:</div> <div></div> <div><b>WEST REGIONAL</b> ELECTRIC COMPANY</div>		Name	Date	Title:  CONTROL ROOM PANEL ARRANGEMENT	Project:  AYATOLLAH BORUJERDI 230/63/20KV SUBSTATION	Scale: --	
B	BD-MIR-00070	02/04				DRAWN	S.SARABI	02/01			Size: --	
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01				
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAN	02/01			Project No:	Sheet: 2
REV.	Description.	DATE				APPROVED	A.DEHGHAN	02/01			DWG NO:MT-SUB-BREC-6159-DD-01-SJ-001	Contract No:

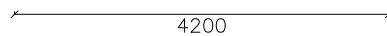
F

C			<div>Consultant:</div> <div></div> <div><b>MONENCO IRAN</b> CONSULTING ENGINEERS</div>	<div>Client:</div> <div></div> <div>AZARKHSH ENERGY MOHAM SHARGH</div>	<div>Contractor:</div> <div></div> <div><b>WEST REGIONAL</b> ELECTRIC COMPANY</div>		Name	Date	Title:  <b>CONTROL ROOM PANEL ARRANGEMENT</b>	Project:  <b>AYATOLLAH BORUJERDI 230/63/20KV SUBSTATION</b>	Scale: --	
B	BD-MIR-00070	02/04				DRAWN	S.SARABI	02/01			Project No:	Size: --
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01				Contract No:
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAN	02/01		Next Sheet: <b>4</b>		
REV.	Description.	DATE				APPROVED	A.DEHGHAN	02/01		DWG NO: JT-SUB-BREC-6159-DD-01-SJ-001		







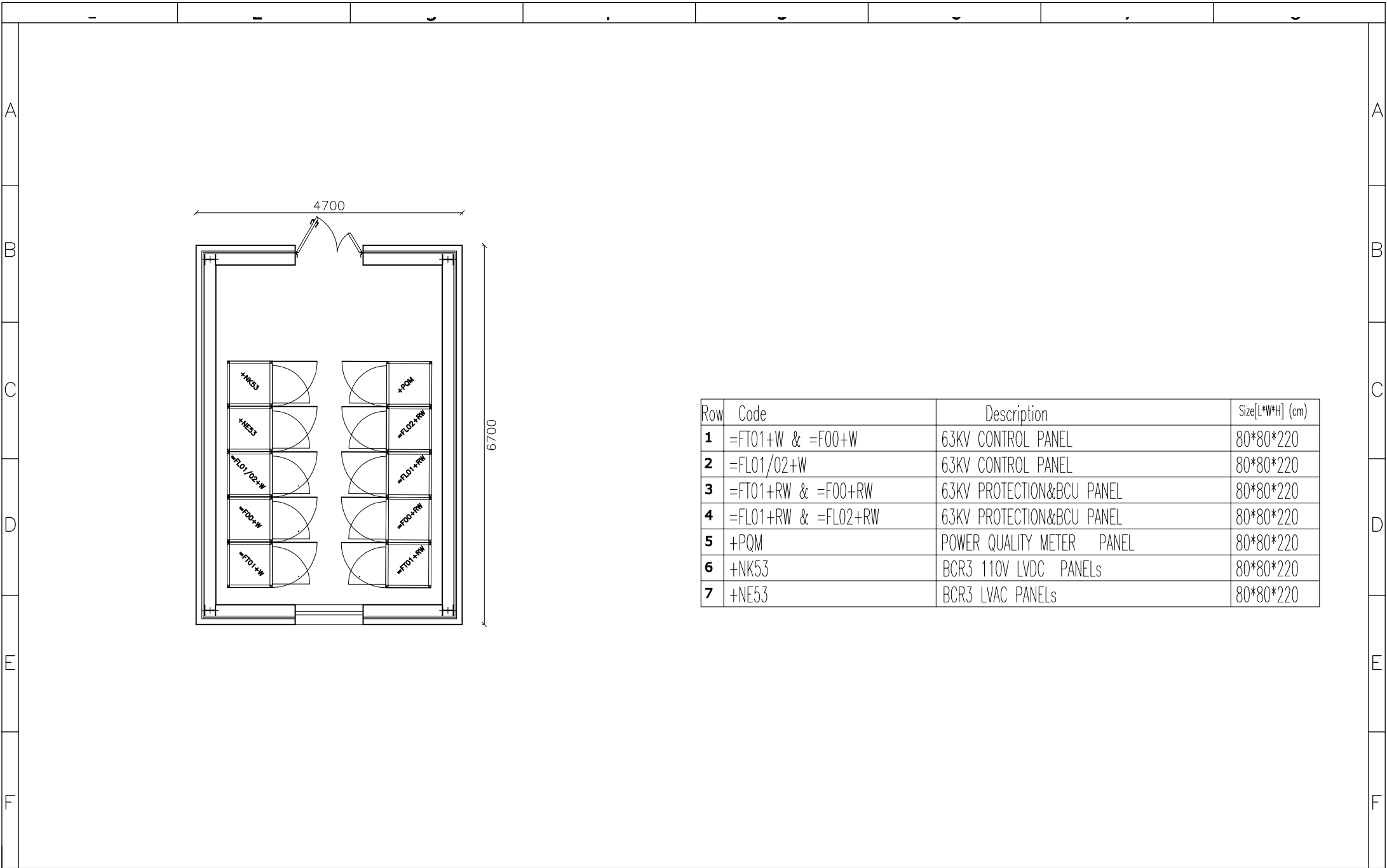
Row	Code	Description	Size[L*W*H] (cm)
1	=D01+W & =D03+W	230KV CONTROL PANEL	80*80*220
2	=D01+R11 & =D03+R11	230KV PROTECTION PANEL	80*80*220
3	=D01+R12 & =D03+R12	230KV PROTECTION PANEL	80*80*220
4	=D00+R17	230KV BUSBAR PROTECTION PANEL	80*80*220
5	+NK51	BCR1 110V LVDC PANELs	80*80*220
6	+NE51	BCR1 LVAC PANELs	80*80*220





C			<div>Consultant:</div> <div></div> <div>MONENCO IRAN CONSULTING ENGINEERS</div>	<div>Client:</div> <div></div> <div>AZARKHSH ENERGY MOHAM SHARGH</div>	<div>Contractor:</div> <div></div> <div>WEST REGIONAL ELECTRIC COMPANY</div>		Name	Date	Title:  BCR1 230KV ROOM PANEL ARRANGEMENT	Project:  <b>AYATOLLAH BORUJERDI 230/63/20KV SUBSTATION</b>	Scale: --	
B	BD-MIR-00070	02/04				DRAWN	S.SARABI	02/01			Size: --	
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01			Project No:	Sheet:
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAN	02/01				
REV.	Description.	DATE				APPROVED	A.DEHGHAN	02/01				

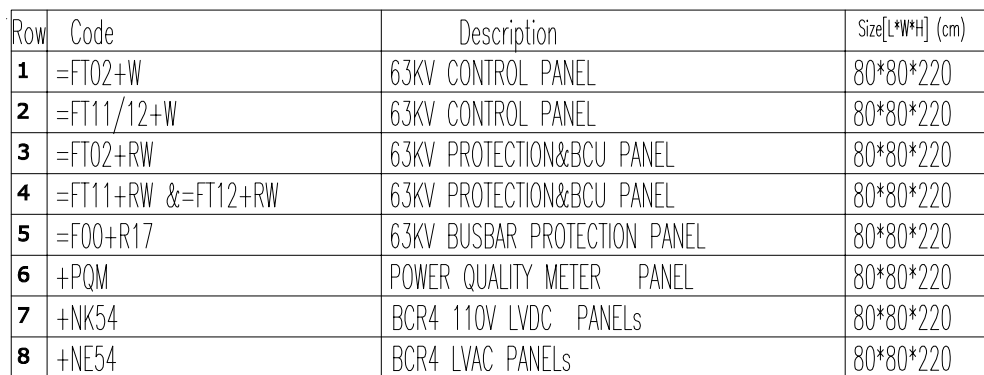




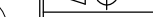

Row	Code	Description	Size[L*W*H] (cm)
1	=D02+W & =D04+W & =D00+W	230KV CONTROL PANEL	80*80*220
2	=D02+R21 & =D04+R21	230KV PROTECTION PANEL	80*80*220
3	=D02+R22 & =D04+R22	230KV PROTECTION PANEL	80*80*220
4	=D00+R	230KV PROTECTION PANEL	80*80*220
5	+LSH1	LOAD SHEDDING PANEL	80*80*220
6	+NK52	BCR2 110V LVDC PANELs	80*80*220
7	+NE52	BCR2 LVAC PANELs	80*80*220

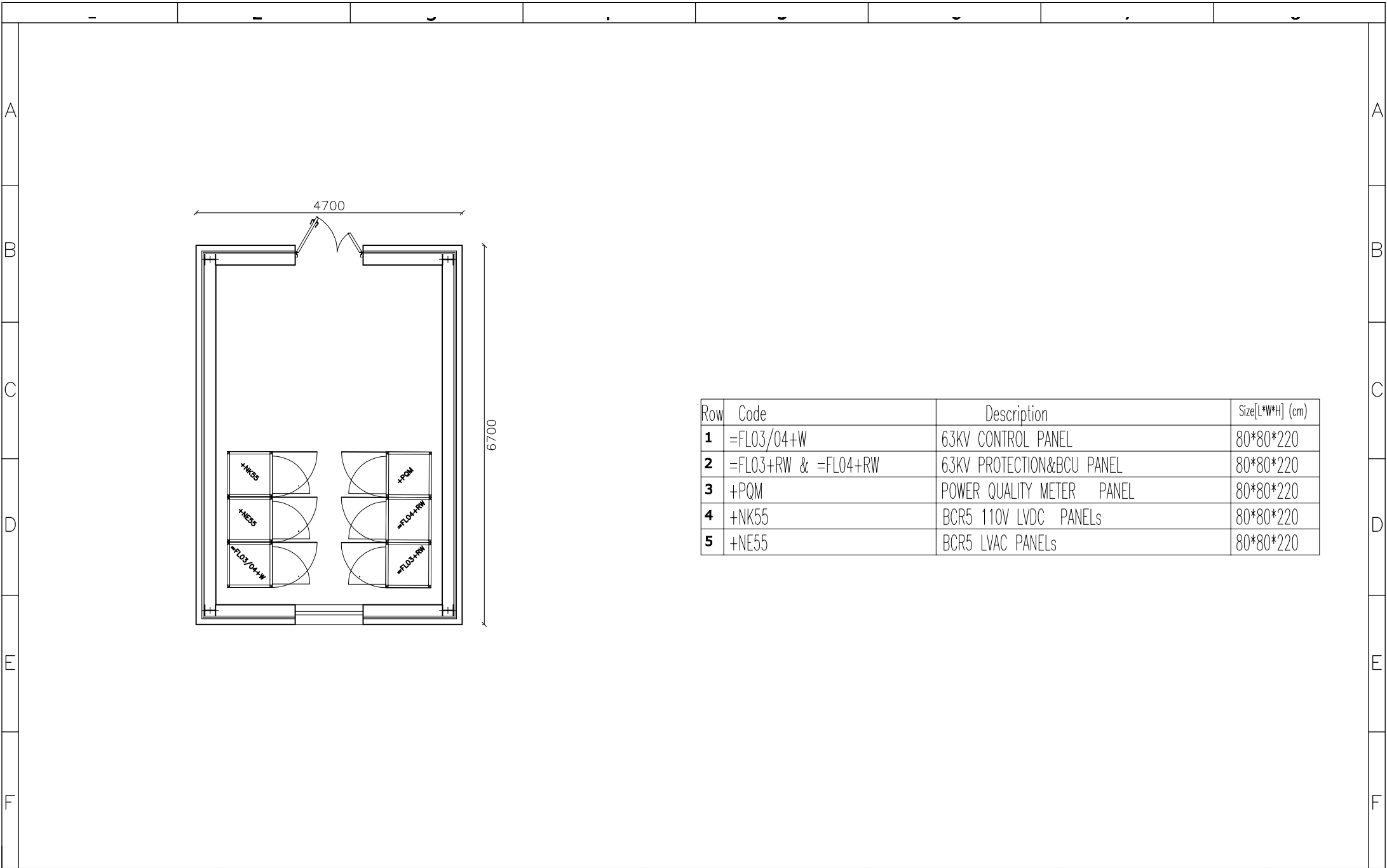
C			<div>Consultant:</div> <div></div> <div>MONENCO IRAN CONSULTING ENGINEERS</div>	<div>Client:</div> <div></div> <div>AZARKHSH ENERGY MOHAM SHARGH</div>	<div>Contractor:</div> <div></div> <div>WEST REGIONAL ELECTRIC COMPANY</div>		Name	Date	Title:  BCR2 230KV ROOM PANEL ARRANGEMENT	Project:  AYATOLLAH BORUJERDI 230/63/20KV SUBSTATION	Scale: --
B	BD-MIR-00070	02/04				DRAWN	S.SARABI	02/01			Size: --
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01		Sheet:	
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAH	02/01	DWG NO:MT-SUB-BREC-6159-DD-01-SJ-001	Project No:	5
REV.	Description.	DATE				APPROVED	A.DEHGHAH	02/01		Contract No:	Next Sheet:







C			<div>Consultant:</div> <div></div> <div><b>MONENCO IRAN</b> CONSULTING ENGINEERS</div>	<div>Client:</div> <div></div> <div><b>AZARKHSH ENERGY</b> MOHAM SHARGH</div>	<div>Contractor:</div> <div></div> <div><b>WEST REGIONAL</b> ELECTRIC COMPANY</div>		<b>Name</b>	<b>Date</b>	<b>Title:</b>  BCR3 63KV ROOM PANEL ARRANGEMENT	<b>Project:</b>  <b>AYATOLLAH BORUJERDI</b> <b>230/63/20KV</b> <b>SUBSTATION</b>	Scale: --
B	BD-MIR-00070	02/04				DRAWN	S.SARABI	02/01			Size: --
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01			
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAN	02/01			Project No:
REV.	Description.	DATE							APPROVED	A.DEHGHAN	02/01

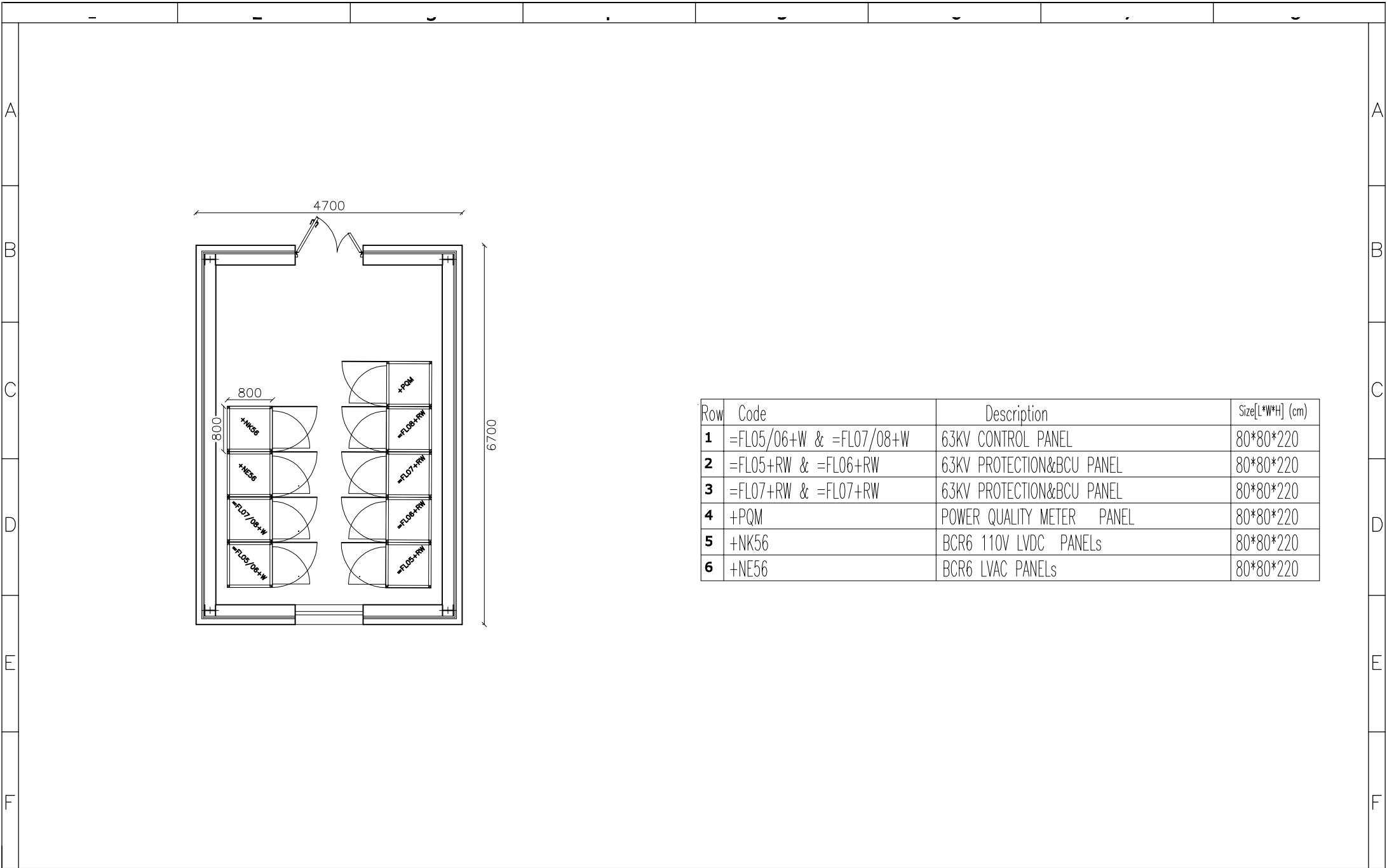


C			<div>Consultant:</div> <div></div> <div><b>MONENCO IRAN</b> CONSULTING ENGINEERS</div>	<div>Client:</div> <div></div> <div><b>AZARKSH ENERGY</b> MOHAM SHARGH</div>	<div>Contractor:</div> <div></div> <div><b>WEST REGIONAL</b> ELECTRIC COMPANY</div>		<b>Name</b>	<b>Date</b>	<b>Title:</b>  BCR4 63KV ROOM PANEL ARRANGEMENT	<b>Project:</b>  <b>AYATOLLAH BORUJERDI</b> <b>230/63/20KV</b> <b>SUBSTATION</b>	Scale: --
B	BD-MIR-00070	02/04				DRAWN	S.SARABI	02/01			Size: --
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01			
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAN	02/01		Project No:	Sheet: 7
REV.	Description.	DATE							APPROVED	A.DEHGHAN	02/01






Row	Code	Description	Size[L*W*H] (cm)
1	=FL03/04+W	63KV CONTROL PANEL	80*80*220
2	=FL03+RW & =FL04+RW	63KV PROTECTION&BCU PANEL	80*80*220
3	+PQM	POWER QUALITY METER PANEL	80*80*220
4	+NK55	BCR5 110V LVDC PANELs	80*80*220
5	+NE55	BCR5 LVAC PANELs	80*80*220

C			Consultant:		Client:		Contractor:			Name	Date	Title:	Project:	Scale: --
B	BD-MIR-00070	02/04	<b>MONENCO IRAN</b> CONSULTING ENGINEERS	<b>AZARKHSH ENERGY</b> MOHAM SHARGH	<b>WEST REGIONAL</b> ELECTRIC COMPANY	DRAWN	S.SARABI	02/01	BCR5 63KV ROOM PANEL ARRANGEMENT	<b>AYATOLLAH BORUJERDI</b> <b>230/63/20KV</b> <b>SUBSTATION</b>	DWG N0MT-SUB-BREC-6159-DD-01-SJ-001	Project No:	Contract No:	Size: --
A	MIR-CM-3190	02/02				DESIGNED	S.SARABI	02/01						Sheet: 8
Z	FIRST ISSUE	02/01				CHECKED	A.DEHGHAN	02/01						Next Sheet: 9
REV.	Description.	DATE				APPROVED	A.DEHGHAN	02/01						



Row	Code	Description	Size[L*W*H] (cm)
1	=FL05/06+W & =FL07/08+W	63KV CONTROL PANEL	80*80*220
2	=FL05+RW & =FL06+RW	63KV PROTECTION&BCU PANEL	80*80*220
3	=FL07+RW & =FL07+RW	63KV PROTECTION&BCU PANEL	80*80*220
4	+PQM	POWER QUALITY METER PANEL	80*80*220
5	+NK56	BCR6 110V LVDC PANELs	80*80*220
6	+NE56	BCR6 LVAC PANELs	80*80*220

C			Consultant:		Client:		Contractor:												
B	BD-MIR-00070	02/04																	
A	MIR-CM-3190	02/02																	
Z	FIRST ISSUE	02/01																	
REV.	Description.	DATE																	
			Consultant:			Client:			Contractor:			Title:			Project:			Scale: --	
												DRAWN S.SARABI 02/01			AYATOLLAH BORUJERDI 230/63/20KV SUBSTATION			Size: --	
			MONENCO IRAN CONSULTING ENGINEERS			AZARKHSH ENERGY MOHAM SHARGH			WEST REGIONAL ELECTRIC COMPANY			DESIGNED S.SARABI 02/01			Project No:			Sheet: 9	
												CHECKED A.DEHGHAN 02/01			Contract No:			Next Sheet: /	
												APPROVED A.DEHGHAN 02/01			DWG NO:MT-SUB-BREC-6159-DD-01-SJ-001				