


# NEGIN ABHAR ALLOY STEEL COMPLEX 63/20KV SUBSTATION

## CONTROL & PROTECTION BUILDING INDOOR LAYOUT INDOOR PANELS ARRANGEMENT

02	1400-02-26	IFA	N.N.	M.Y.V.	M.Y.V.
01	1400-01-20	AN	N.N.	M.Y.V.	M.Y.V.
00	1399-12-07	CM	N.N.	M.Y.V.	M.Y.V.
Rev.	Date	PURPOSE OF ISSUE	Drawn by	Checked by	Approved by
PROJECT:					
NEGIN ABHAR ALLOY STEEL COMPLEX 63/20KV SUBSTATION & 63KV TRANSMISSION LINE					
EPC CONSTRUCTION:		CLIENT:	CONSULTING ENGINEERS:		
					
Drawing Title: INDOOR PANEL ARRANGEMENT DRAWING 63/20KV SUBSTATION CONTROL & PROTECTION BUILDING INDOOR LAYOUT INDOOR PANELS ARRANGEMENT					
SIZE:	REV.	DRAWING NUMBER			
A3	02				
PAGE:	SCALE:				
1 OF 3	-	NGA-01-BA-52EL-DWG-0098			

NOTES

- 1-ALL DIMENSIONS ARE IN CM AND LEVELS ARE IN METERS UNLESS OTHERWISE NOTED.
- 2-ALL DIMENSIONS OF BUILDINGS WILL BE FINALIZED AFTER ARCHITECTURAL DRAWINGS APPROVAL.

SHEET	TITLE	REVISION			
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1	COVER SHEET	0	1	2	
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**PROJECT:**  
 NEGIN ABHAR ALLOY STEEL COMPLEX 63/20KV  
 SUBSTATION & 63KV TRANSMISSION LINE

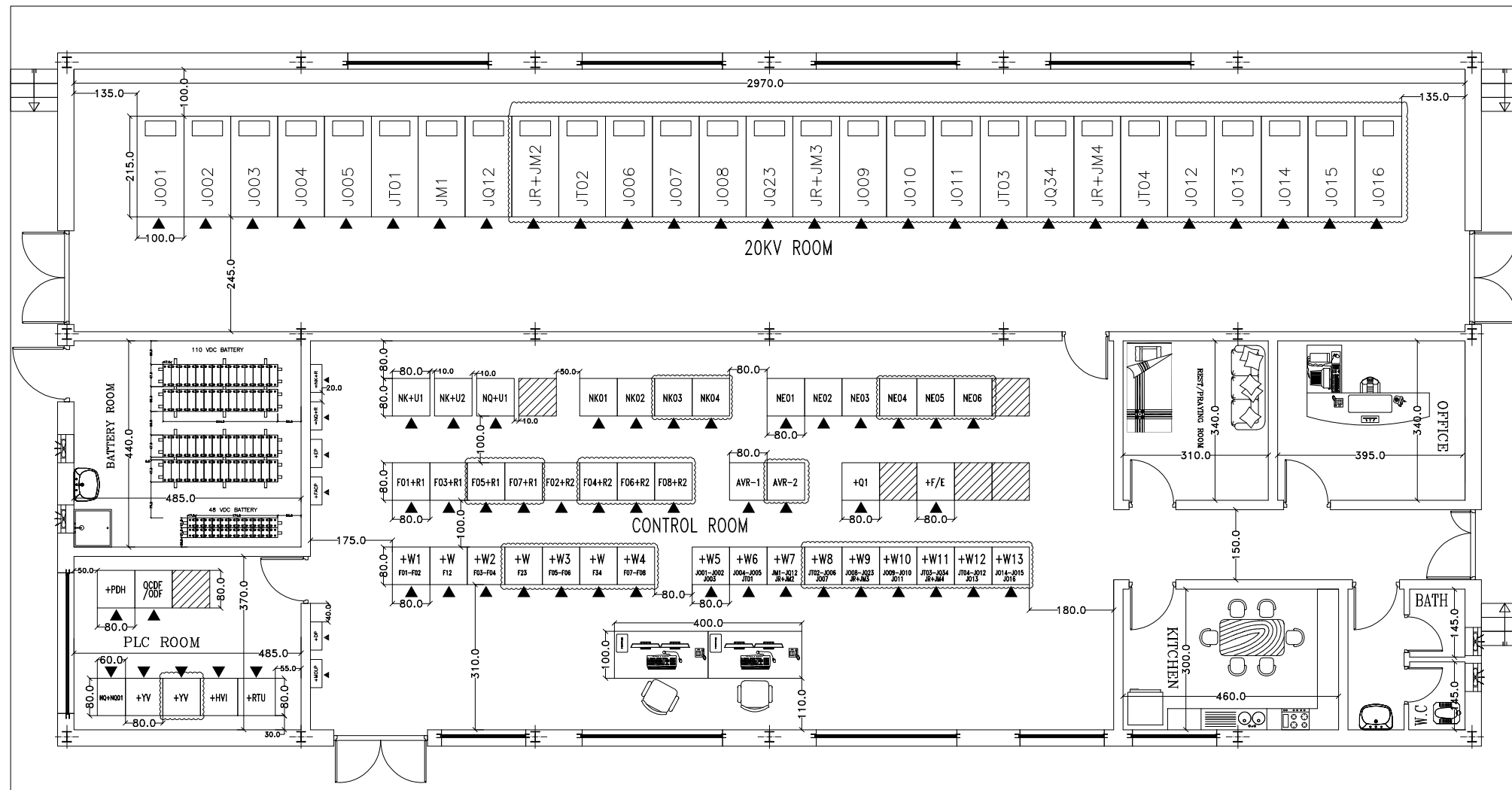
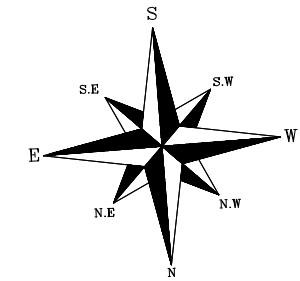
<b>EPC CONTRACTION:</b> گروه نیروکاران نیروکاران گروپ Nirookaran Group Nirookaran Group Company	<b>CLIENT:</b>  Negin Abhar Alloy Steel NEGIN ABHAR ALLOY STEEL COMPLEX	<b>CONSULTING ENGINEERS:</b>  مشانیر MOSHANIEN COMPANY
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**Drawing Title:** INDOOR PANEL ARRANGEMENT DRAWING  
 63/20KV SUBSTATION CONTROL & PROTECTION BUILDING INDOOR LAYOUT  
 INDOOR PANEL ARRANGEMENT

SIZE: A3	REV. 02	DRAWING NUMBER
PAGE: 2 OF 3	SCALE: -	NGA-01-BA-52EL-DWG-0098

NOTES

- 1-ALL DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED.
- 2-ALL DIMENSIONS OF BUILDINGS WILL BE FINALIZED AFTER ARCHITECTURAL DRAWINGS APPROVAL.
- 3-GEOGRAPHICAL DIRECTIONS:



CODE DESIGNATION	DESCRIPTION
=F	63KV SYSTEM
=J	20KV SYSTEM
+W	CONTROL PANEL
+R	PROTECTION PANEL
+AVR	AUTOMATIC VOLTAGE REGULATION PANEL
+Q	METERING PANEL
+NE	LVAC SYSTEM DISTRIBUTION PANELS
+NK	110V DC SYSTEM DISTRIBUTION PANELS
=NQ+Q	48V DC SYSTEM DISTRIBUTION PANELS
=NK+U	110V DC BATTERY CHARGER
=NQ+U	48V DC BATTERY CHARGER
=NK+R	110V DC FUSE BOX
=NQ+R	48V DC FUSE BOX
+PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
+YV	SCADA/COMMUNICATION MARSHALLING PANEL
+HVI	HIGH VOLTAGE INTERFACE PANEL
+RTU	REMOTE TERMINAL UNIT
OCDF/ODF	OPTICAL CABLE DISTRIBUTOR FRAME
+DP	CONTROL BUILDING LIGHTING/HVAC/SOCKET DP
+EP	EMERGENCY DC LIGHTING PANEL
+MOLP	MAIN OUTDOOR LIGHTING PANEL
+FACP	FIRE ALARM CONTROL PANEL
+PDH	PLESIOCHRONOUS DIGITAL HIERARCHY PANEL
+F/E	FAULT/EVENT RECORDER PANEL

NOTE: 1- Future extension works are shown as follow.

**FUTURE EXTENSION WORK**

2- Panels front view are shown as follow.



3- The minimum distance of the batteries from the floor should be 30 cm.

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**PROJECT:**  
 NEGIN ABHAR ALLOY STEEL COMPLEX 63/20KV SUBSTATION & 63KV TRANSMISSION LINE

**EPC CONTRACTOR:** گروه نیروکاران  
 شرکت مهندسی و پیمانکاری نیروکاران  
 Nirookaran Group  
 Nirookaran Group Company

**CLIENT:** Negin Abhar Alloy Steel  
 Alloy Steel  
 NEGIN ABHAR ALLOY STEEL COMPLEX  
 MOHREZIAN COMPANY

**CONSULTING ENGINEERS:** مشانیر  
 مشانیر

Drawing Title: INDOOR PANEL ARRANGEMENT DRAWING  
 63/20KV SUBSTATION CONTROL & PROTECTION BUILDING INDOOR LAYOUT  
 INDOOR PANEL ARRANGEMENT

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