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SORKHANKALATEH
63/20 KV SUBSTATION
PANEL ARANGMENT

REFERENCE DOCUMENT & DWG

LEGENDS

NOTES

KEY PLAN

B	ADD TO LETTER MD1404/178002/81308	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	08.10.18
A	ADD TO LETTER MD1404/178002/80891	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	08.11.07
O	FIRST ISSUE	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	08.11.07
Rev.	DESCRIPTION	DESIGN	DESIGN	CHNG.	HEAD	APPR.	DATE



Mapna Power Plants Construction & Development Co(MD-1)



MOHAM REZAIEH CO.



GHODS NIROO CONSULTING ENGINEERS

PROJECT: SORKHANKALATE 63/20KV AIS S/S

TITLE: PANEL ARANGMENT

OWNER'S DWG. NO. : MD1-BQ-06-SS-E-06-NQ0-507

SCALE : AS SHOWN

CONTRACT NO. : MD1-80-06-SS-E-06-NQ0-507

DESIGN TYPE : BASIC DESIGN ☐ DETAIL DESIGN ☐



MAPNABARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)







SUB-CONTRACTOR'S LOGO

MAPNA'S DWG. NO. : MD1-80-06-SS-E-06-NQ0-507





SUB CONTRACTOR DWG. NO. : B

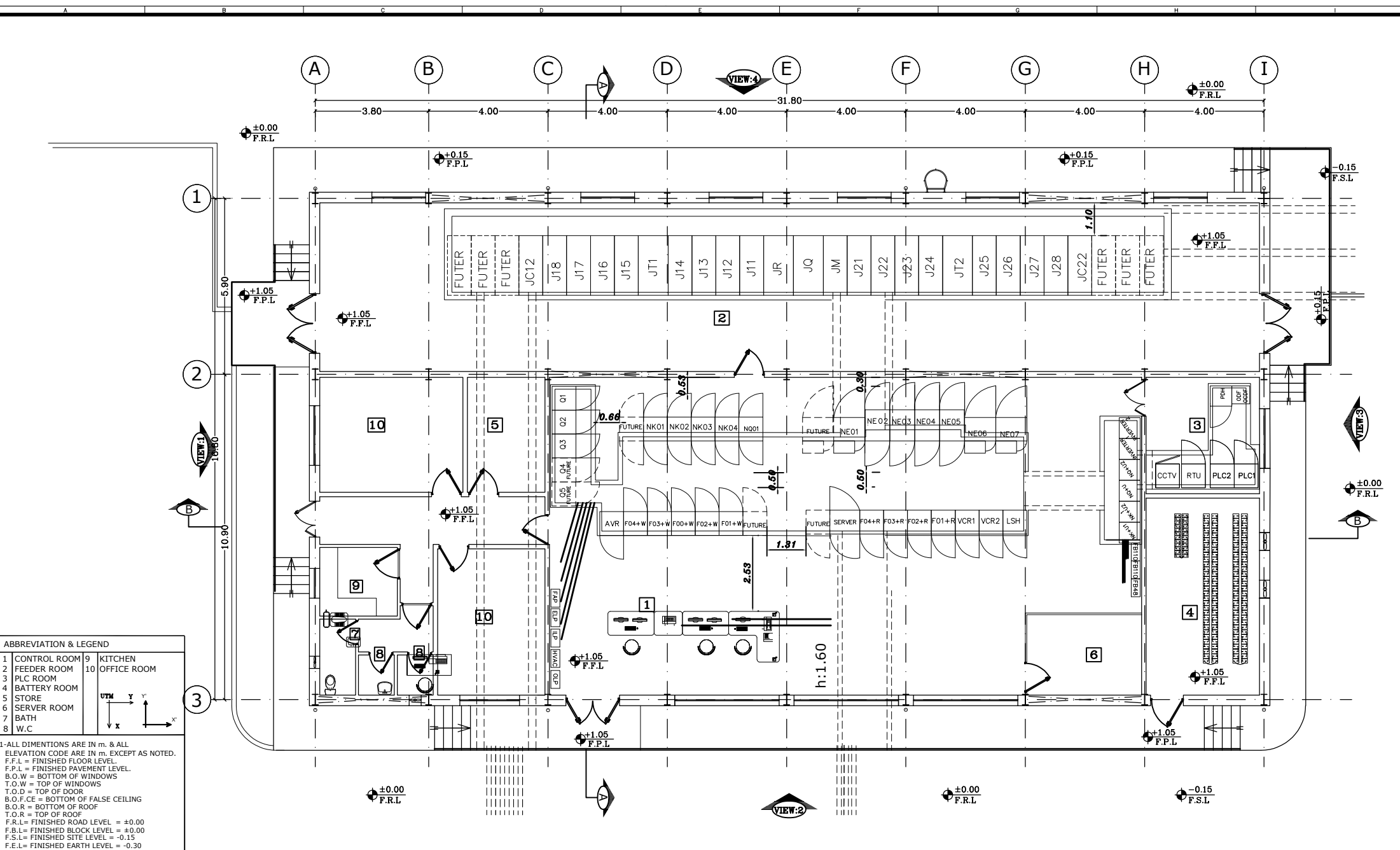
XXXX IN-HOUSE REVISION							
B	ADD TO LETTER MD1404/178002/26947	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	1404.08.09
A	ADD TO LETTER MD1404/178002/13838	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	1404.08.09
O	FIRST ISSUE	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	1404.08.09
Rev.	DESCRIPTION	DESIGN	DESIGN	CHNG.	HEAD	APPR.	DATE

ITEM	TITLE	REV					
0	COVER SHEET	0	A	B			
1	INDEX	0	A	B			
2	PANEL ARRANGEMENT	0	A	B			

 MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)	SUB-CONTRACTOR'S LOGO									DWG./Doc. No. MD1-BQ-06-SS-E-06-NQ0-507	SCALE :	 Mapna Power Plants Construction & Development Co(MD-1)	MOHAM SHARGH CO. 	 GHODS NIROO CONSULTING ENGINEERS
	SUB CONTRACTOR DWG. NO.:	B	NO:1404/17519502/39647	M.MOHAJERI	M.MOHAJERI	M.ATAEI	M.ATAEI	1404.08.03	DRAWING TITLE:	REV. NO. : B				
		A	NO:1404/179502/12835	M.MOHAJERI	M.MOHAJERI	M.ATAEI	M.ATAEI	1404.03.20	INDEX	SHEET: 1 OF 32				
MAPNA'S DWG. No. : MD1-BQ-06-SS-E-06-NQ0-507	NIYAM'S LOGO	0	FIRST ISSUE	M.MOHAJERI	M.MOHAJERI	M.ATAEI	M.ATAEI	1404.02.20	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : SORKHANKALATE 63/20KV AIS S/S		
A	B	C	D	E	F	G	H	I						

Row	Code	Description	Size(L*W*H) (cm)
1	=F01+W	63KV CONTROL PANEL	80*80*220
2	=F02+W	63KV CONTROL PANEL	80*80*220
3	=F03+W	63KV CONTROL PANEL	80*80*220
4	=F03+W	63KV CONTROL PANEL	80*80*220
5	=F04+W	63KV CONTROL PANEL	80*80*220
6	=F01+R	LINE PROTECTION PANEL	80*80*220
7	=F02+R	BAY TRANS PROTECTION PANEL	80*80*220
8	=F03+R	LINE PROTECTION PANEL	80*80*220
9	=F04+R	BAY TRANS PROTECTION PANEL	80*80*220
10	=VCR1,VCR2	VCR PROTECTION PANEL	80*80*220
11	=AVR	AVR PANEL	80*80*220
12	+NK01&+NK04	LVDC DISTRIBUTIONs PANEL	80*80*220
13	+NK02&+NK03	LVDC MAIN PANELs	80*80*220
14	+NE01	NONE ESSENTIAL&ESSENTIAL LVAC DISTRIBUTION PANEL	80*75*220
15	+NE02 & +NE03	LVAC MAIN PANELs	80*80*220
16	+NE04	LVAC BUSCOUPLER PANELs	80*80*220
17	+NE05	LVAC DIESEL GENERATOR PANELs	80*80*220
18	+NE06	ESSENTIAL&ESSENTIAL LVAC DISTRIBUTION PANEL	80*75*220
19	=+Q1	63KV BAYS METERING PANEL	80*80*220
20	=NK+R	110V FUSE BOX PANEL	80*30*60
21	=NQ+R	48V FUSE BOX PANEL	80*30*60
22	=NQ1	48V DC DISTRIBUTION PANEL	80*80*220
23	=NK+U	110V DC CHARGER	70*70*220
24	=NQ+U	48V DC CHARGER	70*70*220
25	=LSH	LOAD SHEDDING PANELs	80*80*220
26	=RTU	RTU PANEL	80*80*220
27	=HM	HMI PANEL	80*80*220
28	=SERVER	SCADA PANEL	100*80*220
29	=PLC	PLC PANEL	80*60*220
30	=ODF/OCDF	SERVER PANEL	60*60*220
31	=POH	FIBER OPTICAL CABLE PANEL	50*50*220
32	=SWITCH	SWITCH PANELs	60*60*220
33	=ILP	INDOOR LIGHTING PANEL	80*35*50
34	=ELP	DC EMERGENCY PANEL	80*35*50
35	=FAP	FIRE ALARM PANEL	50*35*50
36	=OLP	OUTDOOR LIGHTING PANEL	80*35*50
36	=HVAC	HVAC LIGHTING PANEL	80*35*50
37	=J11	20KV OUTGOING PFEEDER	800*2350*2000
38	=J11	20KV INCOMING PFEEDER	1000*2350*2000
39	=JQ	20KV COUPLER PFEEDER	1000*2350*2000
40	=JR	20KV REISER PFEEDER	1000*2350*2000
41	=JM	20KV METERING PFEEDER	800*2350*2000
42	=JC	20KV CAPACITOR PFEEDER	800*2350*2000





 MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C) MAPNA'S DWG. No. : MD1-BQ-06-SS-E-06-NQ0-507	SUB-CONTRACTOR'S LOGO						DWG./Doc. No. MD1-BQ-06-SS-E-06-NQ0-507		SCALE :		 Mapna Power Plants Construction & Development Co(MD-1)	 MOHAM SHARGH CO.	 GHODS NIROO CONSULTING ENGINEERS
	SUB CONTRACTOR DWG. NO.:						DRAWING TITLE: INDEX		REV. NO. : B				
	B NO:1404/17519502/39647 A NO:1404/179502/12835								SHEET: 2 OF 32				
MAPNA'S DWG. No. : MD1-BQ-06-SS-E-06-NQ0-507 NIYAM'S LOGO		0 FIRST ISSUE REV. DESCRIPTION DWN DESN CHKD APPR DATE				DESIGN STAGE :		FILE No.		FORMAT : A3		PROJECT : SORKHANKALATE 63/20KV AIS S/S	



ABBREVIATION & LEGEND

1. CONTROL ROOM	9. KITCHEN
2. FEEDER ROOM	10. OFFICE ROOM
3. PLC ROOM	
4. BATTERY ROOM	
5. STORE	
6. SERVER ROOM	
7. BATH	
8. W.C	

1-ALL DIMENSIONS ARE IN m. & ALL ELEVATION CODE ARE IN m. EXCEPT AS NOTED.
F.F.L = FINISHED FLOOR LEVEL.
F.P.L = FINISHED PAVEMENT LEVEL.
B.O.W = BOTTOM OF WINDOWS
T.O.W = TOP OF WINDOWS
T.O.D = TOP OF DOOR
B.O.F.CE = BOTTOM OF FALSE CEILING
B.O.R = BOTTOM OF ROOF
T.O.R = TOP OF ROOF
F.R.L = FINISHED ROAD LEVEL = ±0.00
F.B.L = FINISHED BLOCK LEVEL = ±0.00
F.S.L = FINISHED SITE LEVEL = -0.15
F.E.L = FINISHED EARTH LEVEL = -0.30

 MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)	SUB-CONTRACTOR'S LOGO								DWG./Doc. No. MD1-BQ-06-SS-E-06-NQ0-507	SCALE :	 Mapna Power Plants Construction & Development Co(MD-1)	 MOHAM SHARGH CO.	 GHODS NIROO CONSULTING ENGINEERS
	SUB CONTRACTOR DWG. NO.:	B	NO:1404/17519502/39647	M.MOHAJERI	M.MOHAJERI	M.ATAEI	M.ATAEI	1404.08.03	DRAWING TITLE:	REV. NO. : B			
		A	NO:1404/179502/12835	M.MOHAJERI	M.MOHAJERI	M.ATAEI	M.ATAEI	1404.03.20		SHEET: OF:32			
		O	FIRST ISSUE	M.MOHAJERI	M.MOHAJERI	M.ATAEI	M.ATAEI	1404.02.20					
MAPNA'S DWG. No. : MD1-BQ-06-SS-E-06-NQ0-507	NIYAM'S LOGO	REV.	DESCRIPTION	DWN	DES	CHKD	APP.R	DATE	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : SORKHANKALATE 63/20KV AIS S/S	