









CONTRACTOR: FARAB & Boland Payeh J.V Farab International FZE   Centigrade Ind.Inc.	DERALOK Hydropower Plant Construction Project (Pkg2)	EMPLOYER: Regional Ministry of Electricity in Kurdistan   CONSULTANT: ELECTROCONSULT
Cii97-81003-DIA-15	DLK-D-FAB-10913-MEC-C-R06	REV.:06
Contract No.: IQ-P15 (Pkg2)	H42-2-00-MA-P-20-DWG-113	Page 1 of 3





ELECTRICAL AND WIRING DIAGRAM

FAB Rev.						Employer Rev.					
06	03/12/2022	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
05	09/20/2021	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
04	05/09/2021	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
03	04/13/2021	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
02	01/24/2021	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
01	01/10/2021	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
00	11/07/2020	For Approval	S.Ebrahimi	E.Beygi	D.Dezhghani						
REV.	DATE	DESCRIPTION	DISIGN	CHKD	APP'D	REV.	DATE	DESCRIPTION	DISIGN	CHKD	APP'D

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Cii97-81003-DIA-15	DLK-D-FAB-10913-MEC-C-R06	REV.:06
Contract No.: IQ-P15 (Pkg2)	H42-2-00-MA-P-20-DWG-113	Page 2 of 3


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Cii97-81003-DIA-15	DLK-D-FAB-10913-MEC-C-R06	REV.:06
Contract No.: IQ-P15 (Pkg2)	H42-2-00-MA-P-20-DWG-113	Page 3 of 3

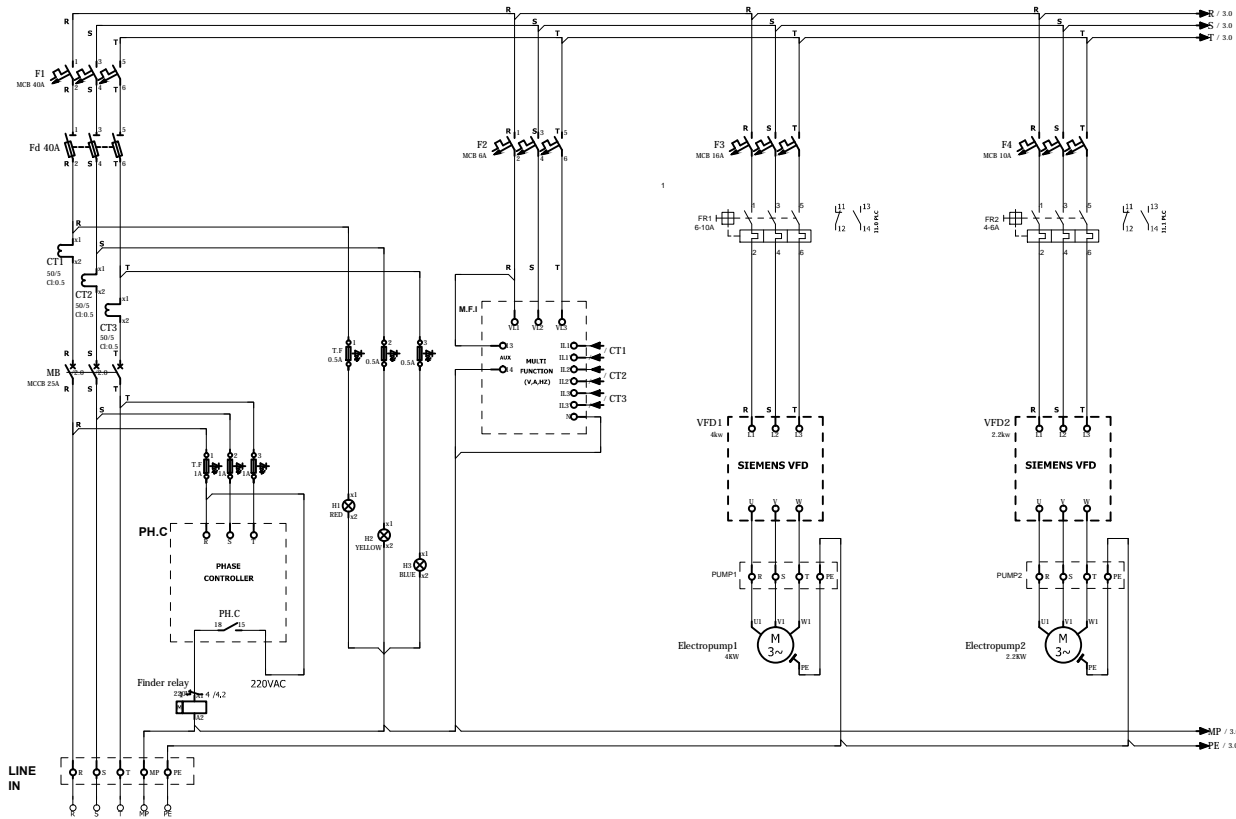
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	Part Name	Piece Symbol	Estandard		Part Name	Piece Symbol	Estandard
1	power circuit breaker		IEC	15	Start Push button		IEC
2	fuse switch 3-pole		IEC	16	NO Contact		IEC
3	Thereminal fused		IEC	17	Power Supply		IEC
4	fuse switch single-pole		IEC	18	LED signal		IEC
5	fluorecent lamp		IEC	19	Thermal actuation NO contact		IEC
6	Cabinet fanlac motor)		IEC	20	Power NO contact		IEC
7	AC motor 3Phase		IEC	21	Thermal actuation NC contact		IEC
8	Heater		IEC	22	Stop Push button		IEC
9	Motor overload switch		IEC	23	PT-100		IEC
10	CT		IEC	24	Shield		IEC
11	Limit switch(i-i)		IEC	25	Solenoid Valve		IEC
12	Relay Coil general		IEC	26	Switch NO Contact		IEC
13	Emergency Push button		IEC	27	Fuse disconnecter		IEC
14	LIGHTING ALARM		IEC				

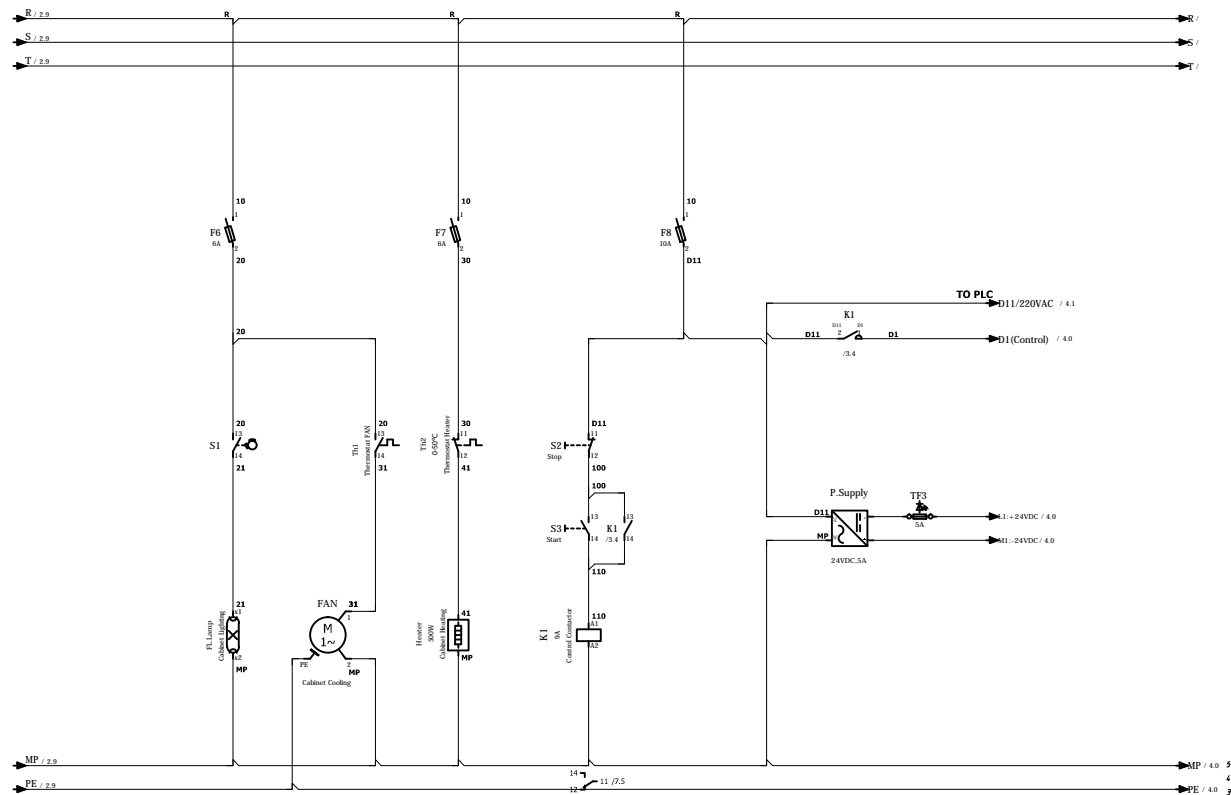
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5	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/09/2023
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0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	10/09/2020
REV.	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE
EMPLOYER:						
REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT:						
ELECTROCONSULT						
PROJECT :						
DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-IQ-P15 Pkg2						
CONTRACTOR:			SUB-CONTRACTOR/VENDOR			
FARAB&Boland payeh J.V			Centigrade Ind.Inc			
						
FAB DWG. NO. :			SUB-CONTRACTOR DWG. NO. :			
H42-2-00-MA-P-20-DWG-113			C1197-81003-DIA-10			
EMPLOYER DWG. NO. :			DLK-D-FAB-10913-MEC-C-R06			
TITLE :						
Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE	A4	SHEET	4/12	CONTRACT NO. : IQ-P15/Pkg2	REV. : 06

Pos.	QTY	Part Name	Description	Order NO	UNIT	BRAND	ORIGIN
1	1	VFD 1	4 KW	SINAMICS V20	PCS	SIEMENS	GERMANY
2	1	VFD 2	2.2 KW	SINAMICS V20	PCS	SIEMENS	GERMANY
3	1	PLC	Compact CPU 1215	6ES7 215-1BG40-0XB0	PCS	SIEMENS	GERMANY
4	1	PLC module	SM-1201 RLY M00 121-1M01	6ES7 221-1BH32-0XB0	PCS	SIEMENS	GERMANY
5	1	PLC module	SM-1231 AI4x12bit	6ES7 231-4HD32-0XB0	PCS	SIEMENS	GERMANY
6	1	PLC module	SM-1231 DI16xDC24V	6ES7 231-5PD32-0XB0	PCS	SIEMENS	GERMANY
7	1	HM RS+	XP50-TTA/DC	L5S-XP50TTA-01	PCS	LS	KOREA
8	1	PHASE CONTROLLER	PHC	RM17TE00	PCS	SCHNEIDER	FRANCE
9	15	PLC RELAY	PLC-BSC-24DC/21	Z964016	PCS	PHOENIX	GERMANY
10	1	MULTI-Function	M.F.I	Ziegler Delta-3L-EA-Z	PCS	ZIEGLER	GERMANY
11	1	MAIN MCB	25A	LV429554	PCS	SCHNEIDER	FRANCE
12	1	MCB	40A 3Phase	24354	PCS	SCHNEIDER	FRANCE
13	1	MCB	16 A 3Phase	24350	PCS	SCHNEIDER	FRANCE
14	1	MCB	10 A 3Phase	24349	PCS	SCHNEIDER	FRANCE
15	1	MCB	6A 3Phase	24348	PCS	SCHNEIDER	FRANCE
16	1	MCB	10A 1Phase	24401	PCS	SCHNEIDER	FRANCE
17	2	MCB	6A 1Phase	24399	PCS	SCHNEIDER	FRANCE
18	1	Power Supply	24 VDC/5A	5BRV-C12024	PCS	OMRON	JAPAN
19	20	Terminal Fused	110-220V/DC-AC	RF15	PCS	RAAD	IRAN
20	2	Selector command switch	Dual mode	XB4-BD33	PCS	SCHNEIDER	FRANCE
21	2	Signal LED LAMP green	24 VDC	XB7-NW3381	PCS	SCHNEIDER	FRANCE
22	2	Signal LED LAMP yellow	24 VDC	XB7-NW3881	PCS	SCHNEIDER	FRANCE
23	1	Emergency push button	Lock Up	XB7N58445	PCS	SCHNEIDER	FRANCE
24	1	Heater	220VAC/500W	GTK-500	PCS	Koomesh	IRAN
25	1	Control Panel Lighting	Fluorescent Lamp/220VAC/10W	EDC-T5	PCS	Lighting	China
26	1	Control Panel Cooling FAN	220VAC/20W	—	PCS	Samit	China
27	33	Terminal	250VAC/2.5mm²	DRTP2.5	PCS	RAAD	IRAN
28	1	Contact	coil 220VAC/9A	3RT2023-1AP00	PCS	SIEMENS	GERMANY
29	1	Manual Motor Starter	4-6.3 A	GV2ME10	PCS	SCHNEIDER	FRANCE
30	1	Manual Motor Starter	6-10 A	GV2ME14	PCS	SCHNEIDER	FRANCE
31	60	WIRE	1x1mm²	—	M	shirkoooh	IRAN
32	15	WIRE	1x2.5mm²	—	M	shirkoooh	IRAN
33	3	CT (Current trans Core balance)	50/5 CL05F55	—	PCS	MAG ELECTRIC	IRAN
34	1	Start push button	Monolithic push button	XB7NA3133	PCS	SCHNEIDER	FRANCE
35	1	Stop push button	Monolithic push button	XB7NA445	PCS	SCHNEIDER	FRANCE
36	9	Gland		PG13.5	PCS	RAAD	IRAN
37	2	Gland		PG16	PCS	RAAD	IRAN
38	1	Gland		PG21	PCS	RAAD	IRAN
39	4	Blue Terminal	500VAC/4mm²	RTP4	PCS	RAAD	IRAN
40	5	Yellow Terminal	500VAC/4mm²	RTP4	PCS	RAAD	IRAN
41	3	Black Terminal	500VAC/4mm²	RTP4	PCS	RAAD	IRAN
42	9	Gray Terminal	600VAC/0mm²	RTP10	PCS	RAAD	IRAN
43	3	Earth Terminal	600VAC/0mm²	RET10	PCS	RAAD	IRAN
44	1	Thermostat FAN	250V/10A	3668042	PCS	Koomesh	IRAN
45	2	Thermostat Heater	250V/10A	3668075	PCS	Koomesh	IRAN
46	1	RED Signal LED LAMP	220 VAC	XB7-EV54MP	PCS	SCHNEIDER	FRANCE
47	1	YELLOW Signal LED LAMP	220 VAC	XB7-EV55MP	PCS	SCHNEIDER	FRANCE
48	1	BLUE Signal LED LAMP	220 VAC	XB7-EV56MP	PCS	SCHNEIDER	FRANCE
49	1	Finder Relay	230 VAC/10A	60.12.8.230.004.0	PCS	Finder	EU
50	1	Limit Switch	250 VAC/15A	CM-1306	PCS	WINNER	FRANCE
51	3	Fuse disconnect	690 VAC/50A	VLC 14	PCS	ETI	Slovenia
52	3	Cylindrical fuse	500 VAC/40A	14XS1	PCS	ETI	Slovenia
53	1	Lighting Alarm	17-40 VDC	PSB-0077	PCS	klaxon	UK


6	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/10/2020
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4	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/09/2020
3	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	04/10/2020
2	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/10/2020
1	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	07/11/2020
0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	10/09/2020
REV	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE
EMPLOYER: REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT: ELECTROCONSULT						
PROJECT: DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-10-P15 Pkg2						
CONTRACTOR: FARAB&Boland payeh J.V			SUB-CONTRACTOR/VENDOR Centigrade Ind.Inc			
						
FAB DWG. NO. : H42-2-00-MA-P-20-DWG-113			SUB-CONTRACTOR DWG. NO. : CII97-81003-DIA-10			
EMPLOYER DWG. NO. : DLK-D-FAB-10913-MEC-C-R06						
TITLE: Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE	A4	SHEET	5/12	CONTRACT NO. : 10-P15/Pkg2	REV : 06

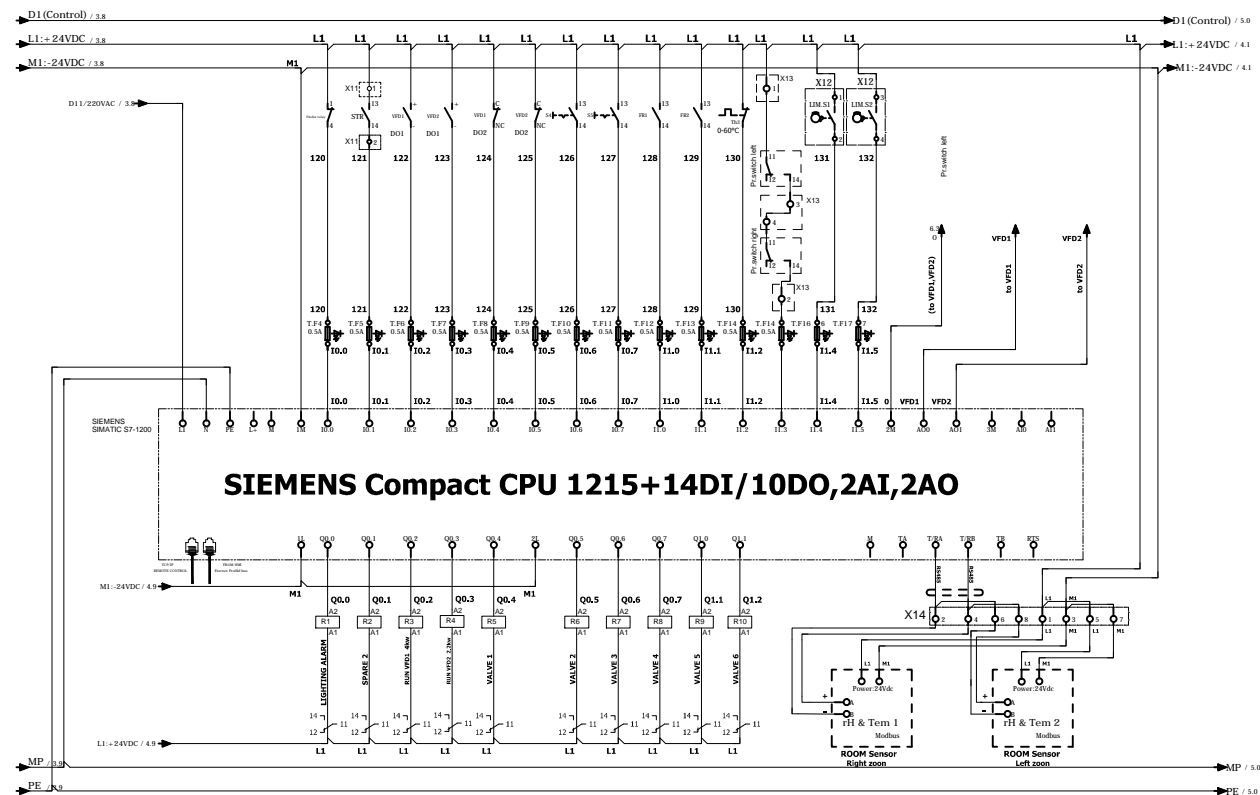



4	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/10/2021
5	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/10/2021
4	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/09/2021
3	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	04/10/2021
2	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/10/2021
1	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/10/2021
0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	10/09/2020
REV	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE
EMPLOYER: REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT: ELECTROCONSULT						
PROJECT : DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-10-P15 Pkg2						
CONTRACTOR: FARAB&Boland payeh J.V 			SUB-CONTRACTOR/VENDOR Centigrade Ind.Inc			
FAB DWG. NO. : H42-2-00-MA-P-20-DWG-113			SUB-CONTRACTOR DWG. NO. : C1197-81003-DIA-10			
EMPLOYER DWG. NO. : DLK-D-FAB-10913-MEC-C-R06						
TITLE : Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE A4	SHEET 6/12	CONTRACT NO. : 10-P15/Pkg2		REV : 06	

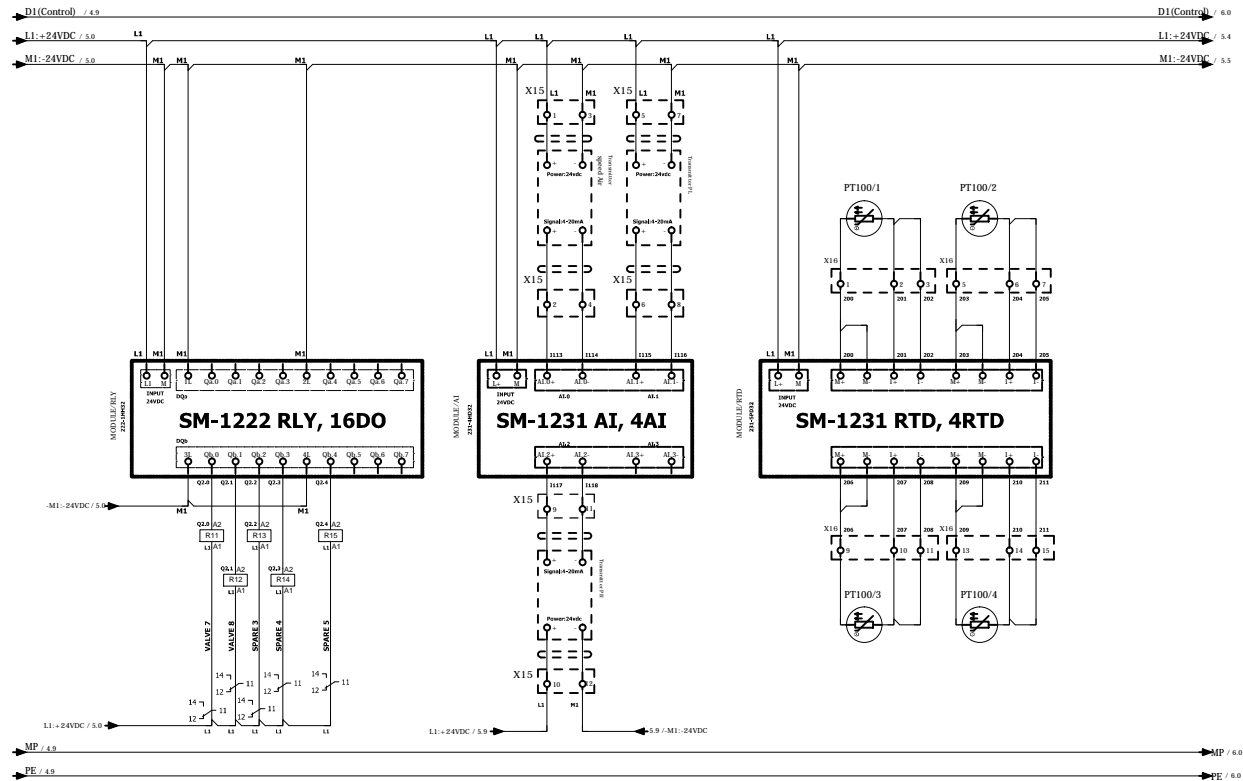



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5	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	08/02/2021
4	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	05/08/2021
3	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	04/18/2021
2	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/24/2021
1	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	07/17/2020
0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	10/09/2020
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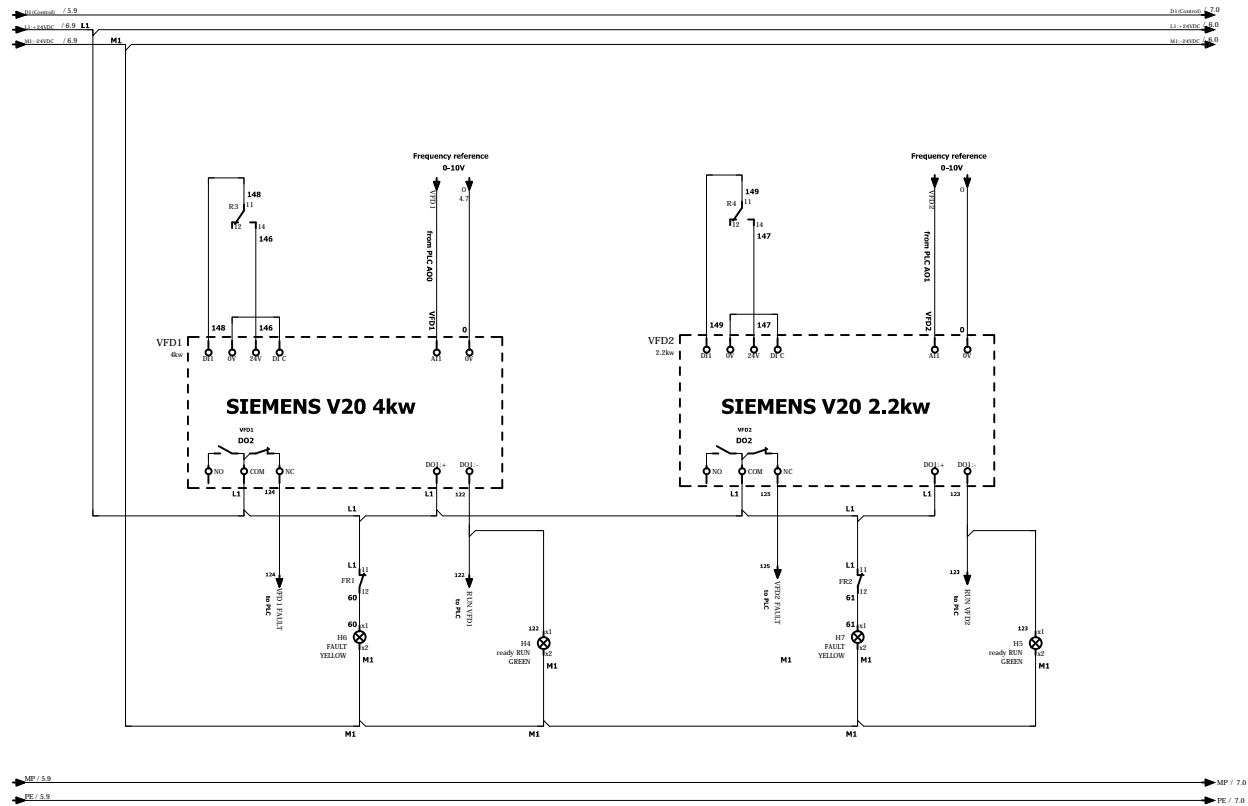
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CONSULTANT:		ELECTROCONSULT			
PROJECT :		DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-IQ-P15 Pkg2			
CONTRACTOR:		FARAB&Boland payeh J.V		SUB-CONTRACTOR/VENDOR	
				Centigrade Ind Inc	
FAB DWG. NO.:		H42-2-00-MA-P-20-DWG-113		SUB-CONTRACTOR DWG. NO.:	
				CI197-81003-DIA-10	
EMPLOYER DWG. NO.:		DLK-D-FAB-10913-MEC-C-R06			
TITLE:		Fog Nozzle System ELECTRICAL & WIRING DIAGRAM			
SCALE	SIZE	A4	SHEET	7/12	CONTRACT NO.:
					IQ-P15/Pkg2
					REV: 06



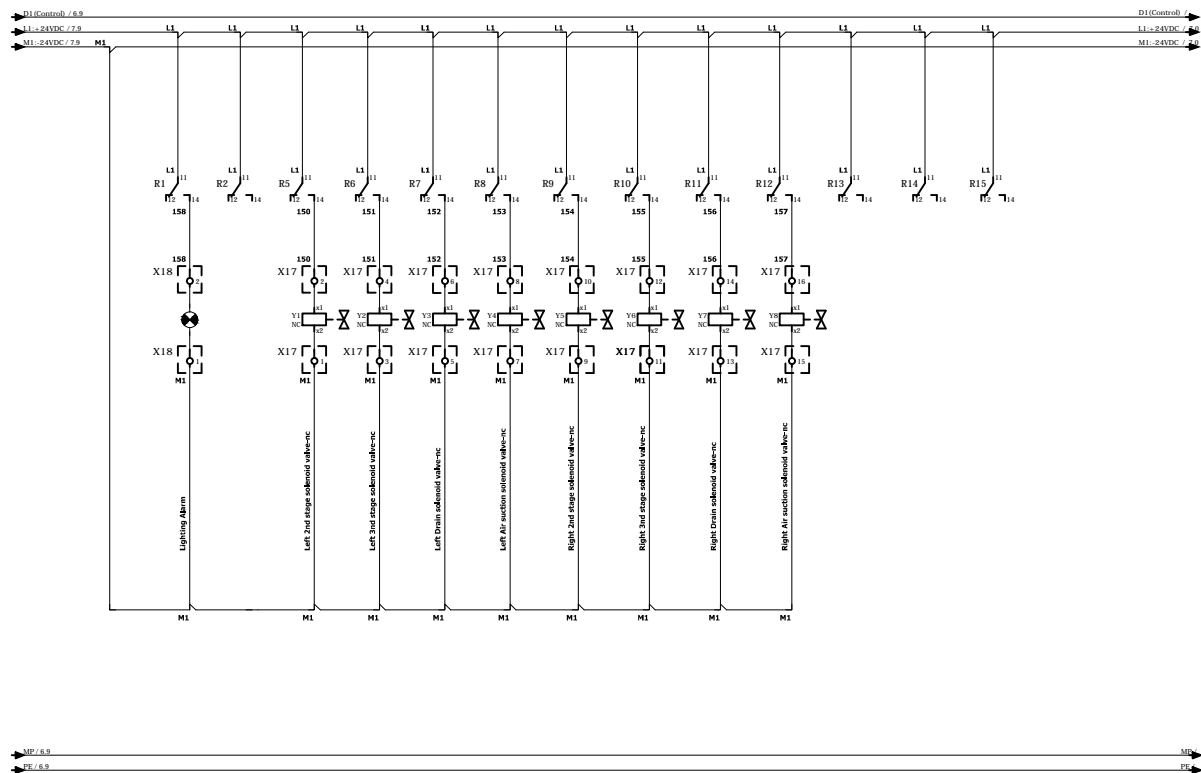
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3	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/12/2021
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0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	11/01/2020
REV	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE
EMPLOYER:						
REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT:						
ELECTROCONSULT						
PROJECT :						
DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-IQ-P15 Pkg2						
CONTRACTOR:			SUB-CONTRACTOR/VENDOR			
FARAB&Boland payeh J.V			Centigrade Ind Inc			
						
FAB DWG. NO. :			SUB-CONTRACTOR DWG. NO. :			
H42-2-00-MA-P-20-DWG-113			C1197-81003-DIA-10			
EMPLOYER DWG. NO. :			DLK-D-FAB-10913-MEC-C-R06			
TITLE :						
Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE	SHEET	CONTRACT NO. :		REV. :	
	A4	8/12	IQ-P15/Pkg2		06	




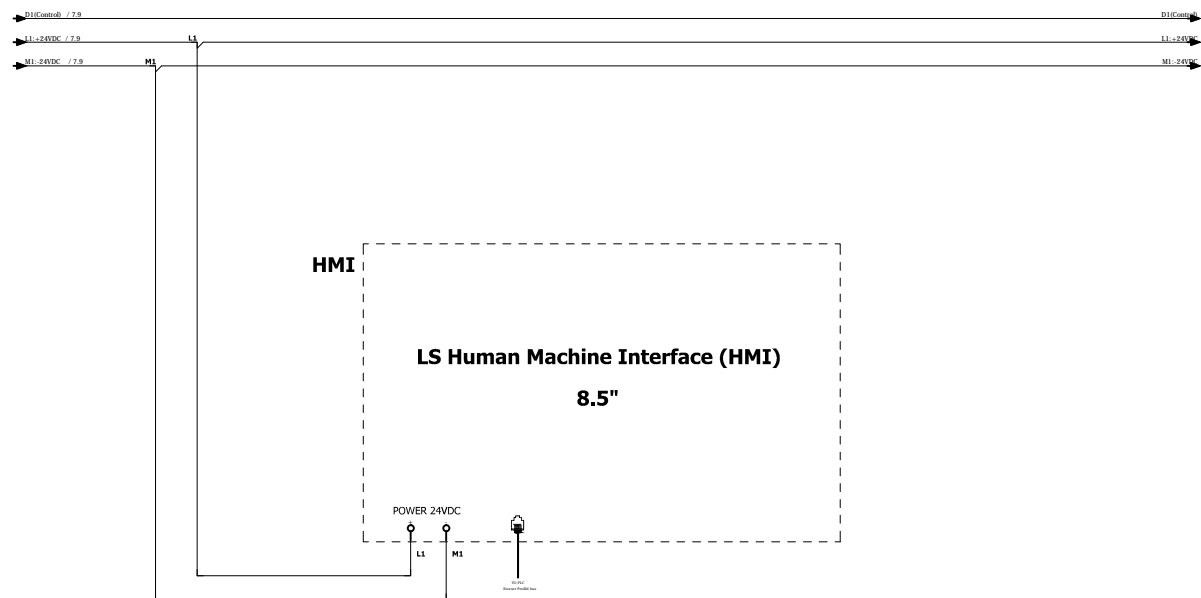
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3	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	08/18/2021
2	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/24/2021
1	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	07/17/2020
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EMPLOYER: REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT: ELECTROCONSULT						
PROJECT : DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-IQ-P15 Pkg2						
CONTRACTOR: FARAB&Boland payeh J.V 			SUB-CONTRACTOR/VENDOR Centigrade Ind Inc			
FAB DWG. NO. : H42-2-00-MA-P-20-DWG-113			SUB-CONTRACTOR DWG. NO. : CI197-81003-DIA-10			
EMPLOYER DWG. NO. : DLK-D-FAB-10913-MEC-C-R06						
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SCALE	SIZE A4	SHEET 9/12	CONTRACT NO. : IQ-P15/Pkg2			REV : 06



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EMPLOYER: REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT: ELECTROCONSULT						
PROJECT: DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-10-P15 Pkg2						
CONTRACTOR: FARAB&Boland payeh J.V			SUB-CONTRACTOR/VENDOR Centigrade Ind.Inc			
FAB DWG. NO.: H42-2-00-MA-P-20-DWG-113			SUB-CONTRACTOR DWG. NO.: C1197-81003-DIA-10			
EMPLOYER DWG. NO.:			DLK-D-FAB-10913-MEC-C-R06			
TITLE: Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE	A4	SHEET	10/12	CONTRACT NO. : 10-P15/Pkg2	REV : 06



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1	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Delghani	10/11/2020
0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Delghani	10/09/2020
REV	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE
EMPLOYER: REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT: ELECTROCONSULT						
PROJECT : DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-IQ-P15 Pkg2						
CONTRACTOR: FARAB&Boland payeh J.V 			SUB-CONTRACTOR/VENDOR Centigrade Ind.Inc			
FAB DWG. NO. : H42-2-00-MA-P-20-DWG-113			SUB-CONTRACTOR DWG. NO. : C1197-81003-DIA-10			
EMPLOYER DWG. NO. : DLK-D-FAB-10913-MEC-C-R06						
TITLE : Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE A4	SHEET 11/12	CONTRACT NO. : IQ-P15/Pkg2		REV : 06	



6	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/10/2021
5	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	09/09/2021
4	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	08/08/2021
3	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	04/18/2021
2	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	01/24/2021
1	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	07/17/2020
0	FOR APPROVAL	S.Ebrahimi	S.Ebrahimi	E.Beygi	D.Deighani	10/09/2020
REV	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE
EMPLOYER: REGIONAL MINISTRY OF ELECTRICITY IN KURDISTAN						
CONSULTANT: ELECTROCONSULT						
PROJECT : DERALOK HYDROPOWER PLANT CONSTRUCTION PROJECT-IQ-P15 Pkg2						
CONTRACTOR: FARAB&Boland payeh J.V			SUB-CONTRACTOR/VENDOR Centigrade Ind.Inc			
FAB DWG. NO. : H42-2-00-MA-P-20-DWG-113			SUB-CONTRACTOR DWG. NO. : C1197-81003-DIA-10			
EMPLOYER DWG. NO. : DLK-D-FAB-10913-MEC-C-R06						
TITLE : Fog Nozzle System ELECTRICAL & WIRING DIAGRAM						
SCALE	SIZE A4	SHEET 12/12	CONTRACT NO. : IQ-P15/Pkg2		REV : 06	