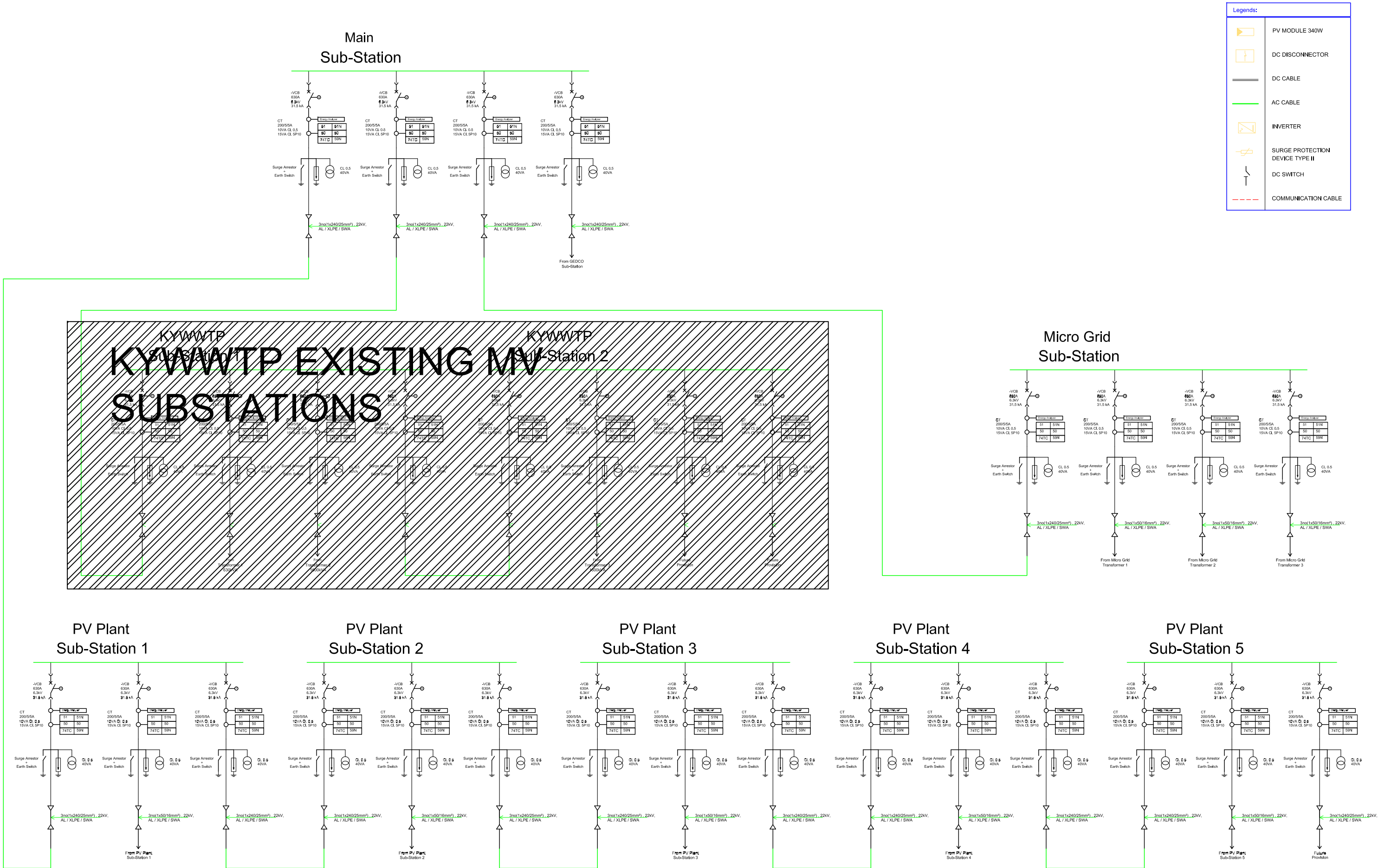


# **Annex -3-**

## Drawings



Notes:

Donor

Norwegian Ministry of Foreign Affairs

Client

CONSULTANT

Project Name:  
Construction of Solar Energy System for Water Treatment Plant (KY WWTP)

RFP No. :  
PAL- 0000093741

Drawing Title:  
MV SLD - All components

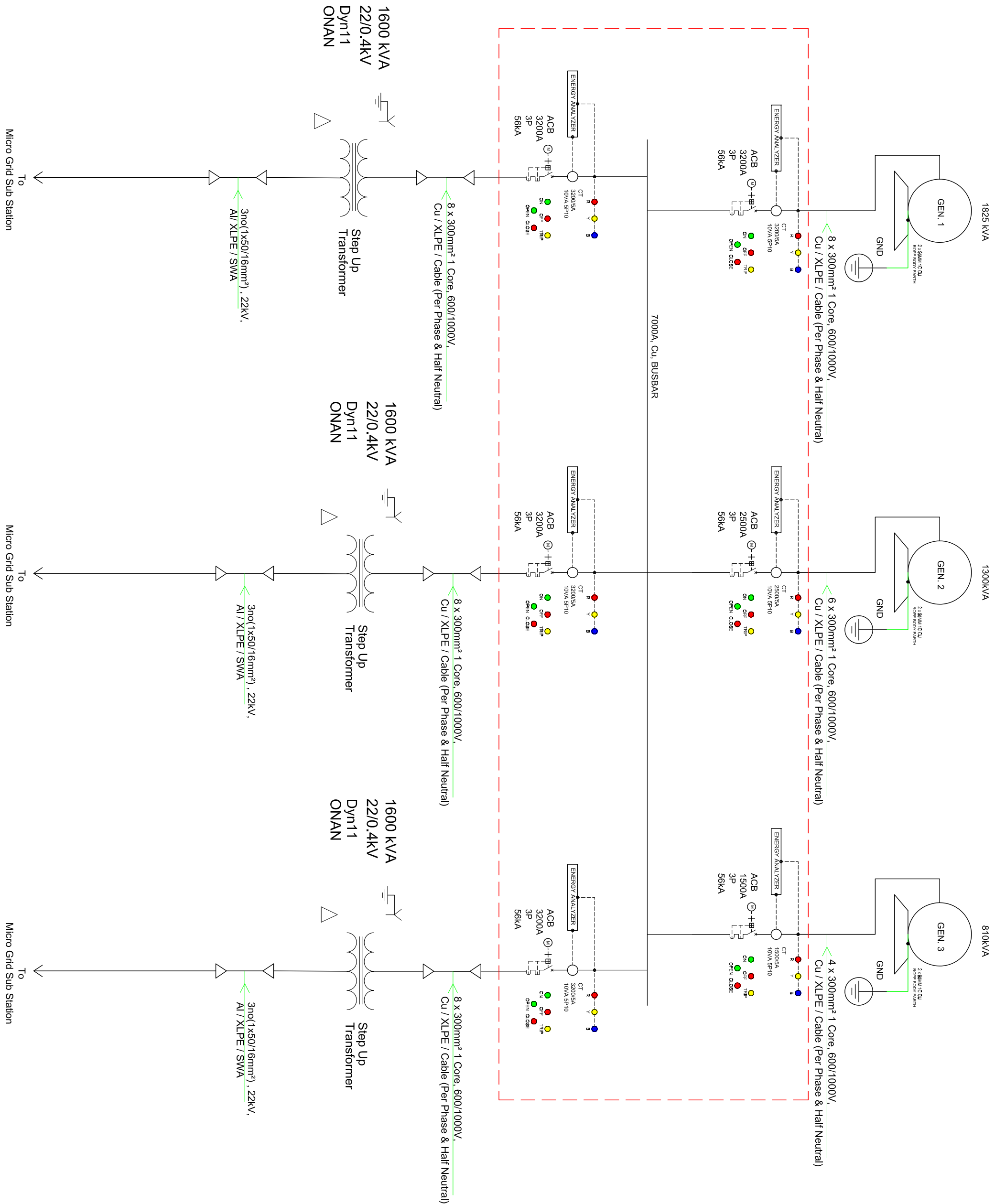
Design  
EMCC

Checked  
EMCC

Drawing NO. P -12  
Scale: 1 : 100  
Date: Jan. 2021

Notes:

Legends:	
	P/V MODULE 340W
	DC DISCONNECTOR
	DC CABLE
	AC CABLE
	INVERTER
	SURGE PROTECTION DEVICE TYPE II
	DC SWITCH
	COMMUNICATION CABLE



Donor



Client

CONSULTANT



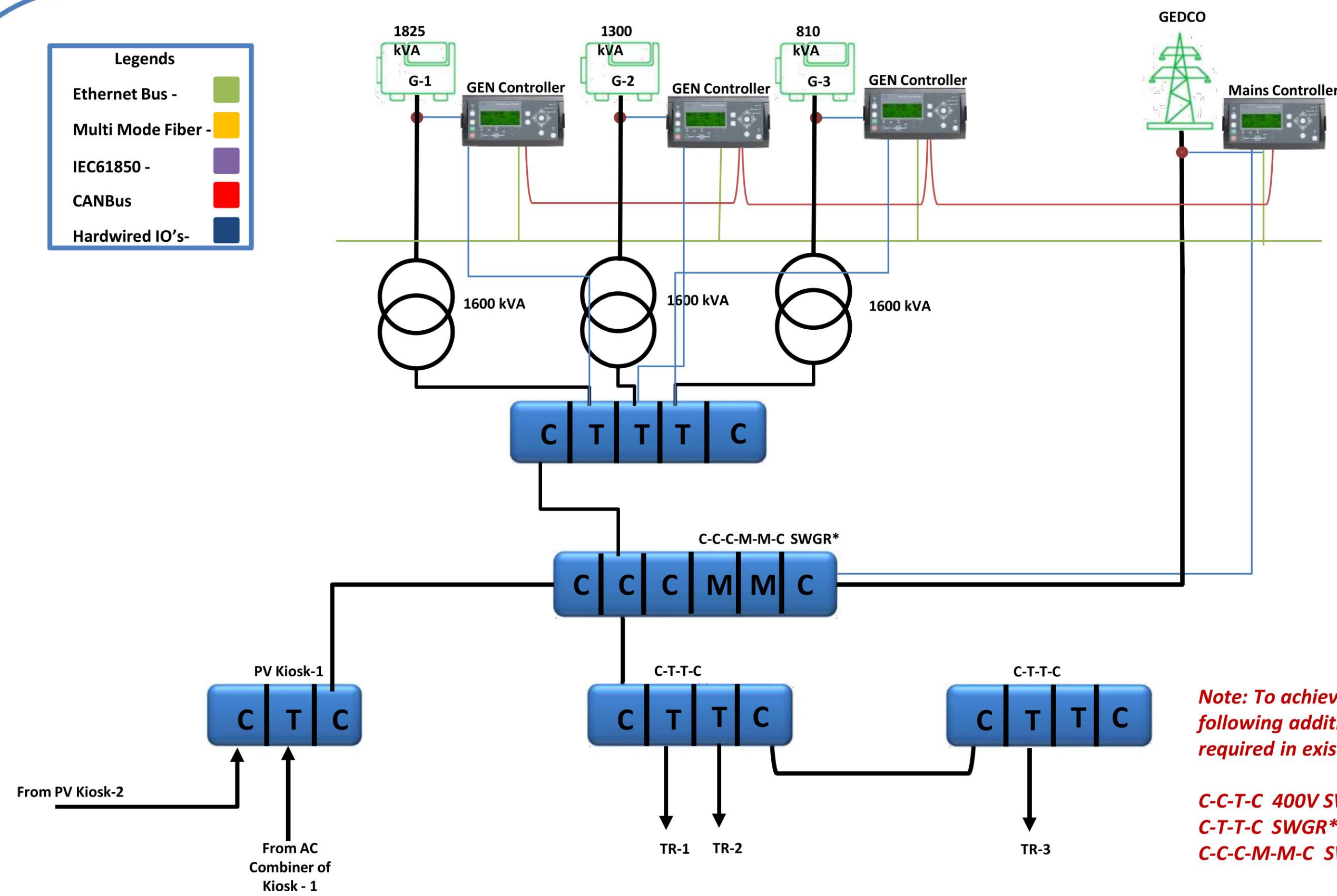
Project Name:  
Construction of Solar Energy System  
for  
Water Treatment Plant (KY WWTP)

RFP No. :  
PAL- 0000093741

Drawing Title: LV-Synchronization Panel	
Design	EMCC
Checked	EMCC
Drawing NO.	P -13
Scale:	1 : 100
Date:	Jan. 2021

**Legends**

- Ethernet Bus -
- Multi Mode Fiber -
- IEC61850 -
- CANBus -
- Hardwired IO's -

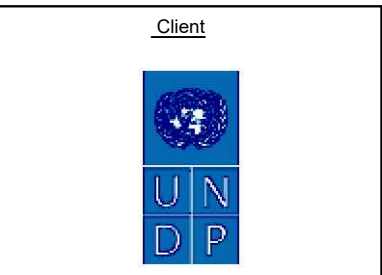


**Note: To achieve the microgrid application following addition & modification shall be required in existing switchgear**

**C-C-T-C 400V SWGR'' – New switchgear addition**  
**C-T-T-C SWGR\*\* - Existing Switchgear no change**  
**C-C-C-M-M-C SWGR\* - Modification in Switchgear**

Notes:

Donor



Project Name:  
Construction of Solar Energy System for Water Treatment Plant (KY WWTP)

RFP No.: PAL- 0000093741

Drawing Title:  
Syn. Panel control & M.V Circuit Breakers

Design: EMCC

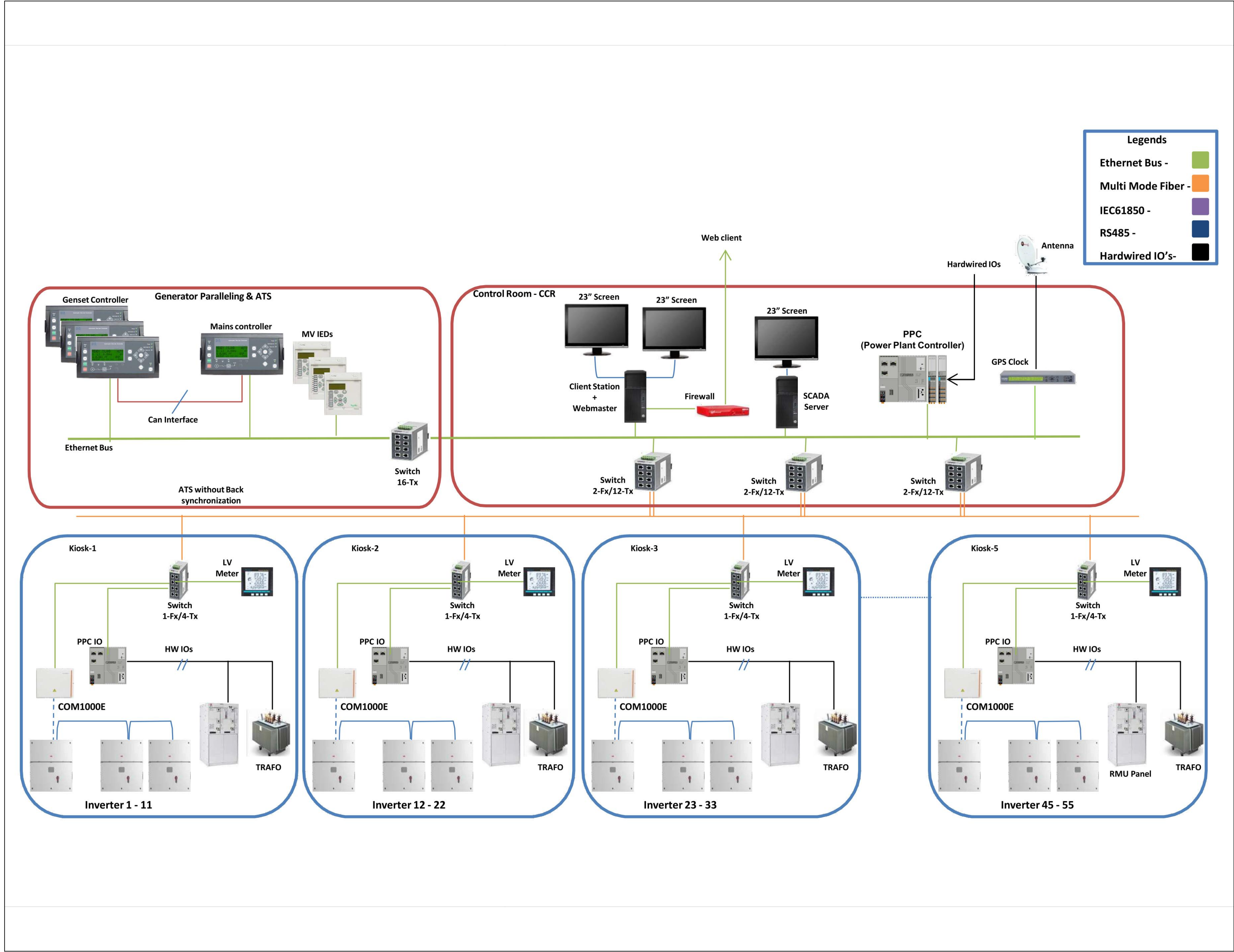
Checked: EMCC

Drawing NO.: P -14

Scale: 1 : 100

Date: Jan. 2021





Notes:

Donor  
Norwegian Ministry of Foreign Affairs

Client  
UNDP

CONSULTANT  
EMCC

Project Name:  
Construction of Solar Energy System for Water Treatment Plant (KY WWTP)

RFP No.:  
PAL- 0000093741

Drawing Title:  
SCADA System

Design  
EMCC

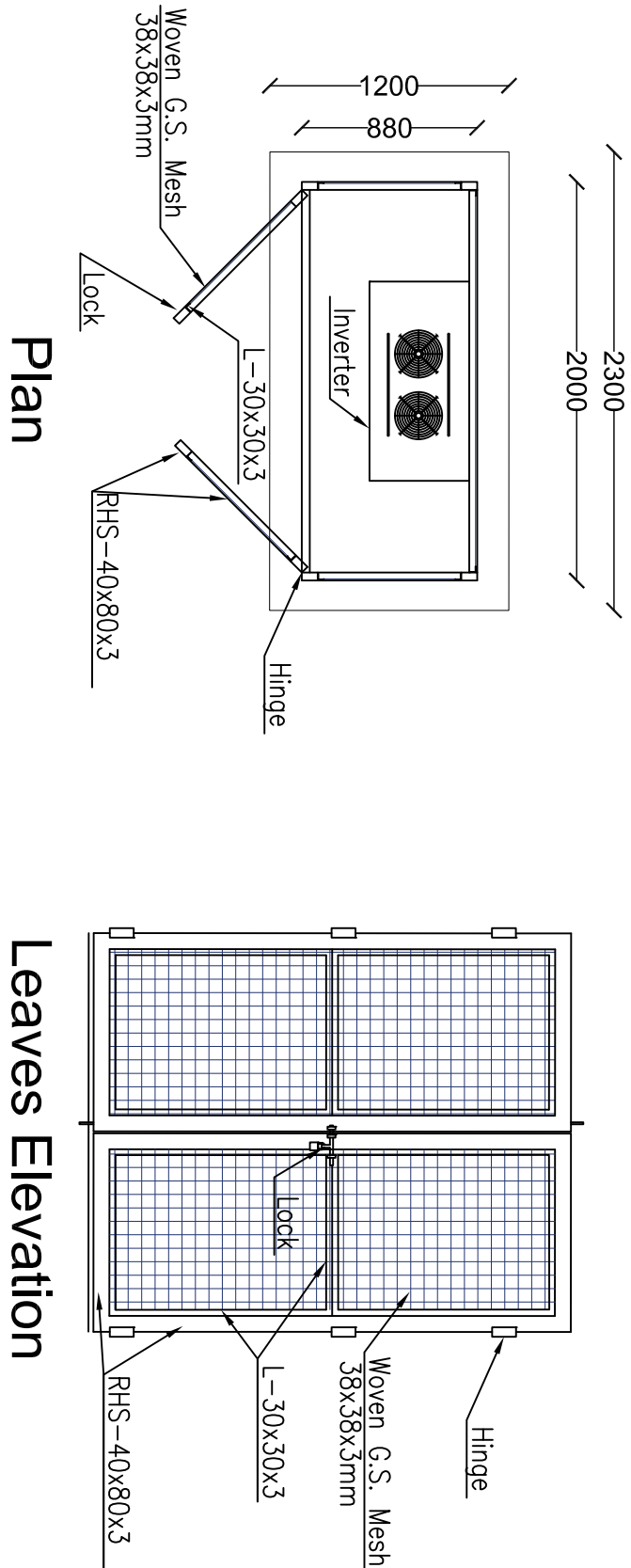
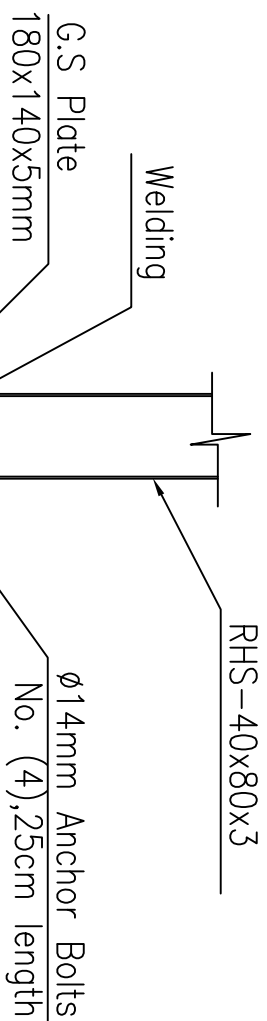
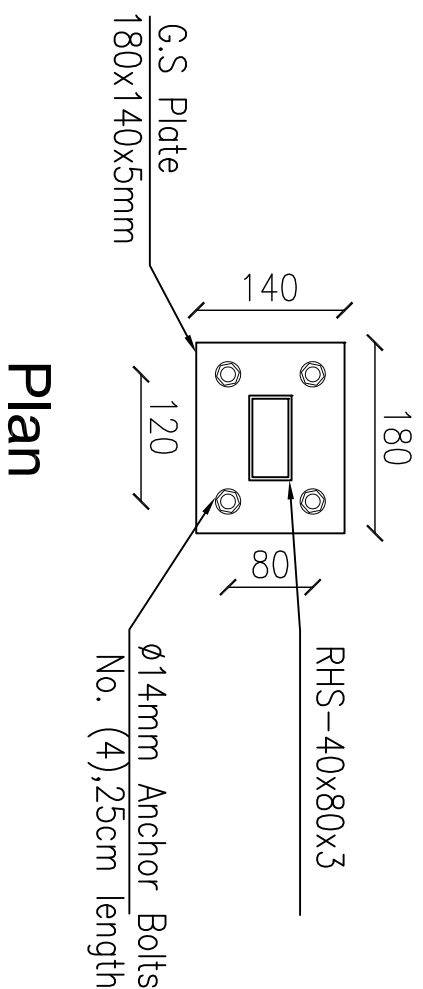
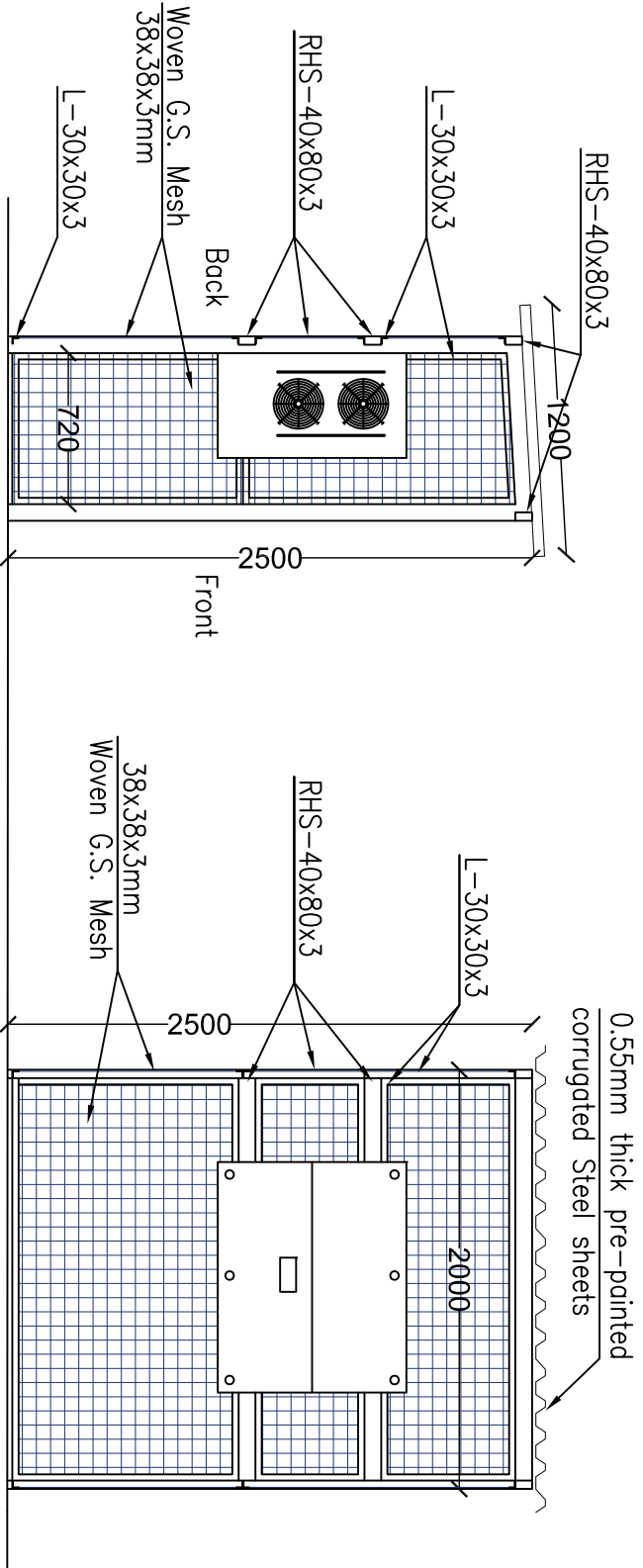
Checked  
EMCC

Drawing NO.:  
P -15

Scale:  
1 : 100

Date:  
Jan. 2021

Notes:



## Columns Base Connection

1:10

## Inverter's Protection Room Details

1:50

STEEL GENERAL NOTES:-  
1 – ALL STEEL STRUCTURE MUST HOT-DIP GALVANIZED STEEL WITH MINIMUM THICKNESS OF 60 MICRONS

Project Name: Provision of Detailed Design and Technical Assistance Services for the Construction of Solar Energy System for Khen Youns Waste Water Treatment Plant (KYY WWTP)	
RFP No. :	PAL- 0000093741
Drawing Title:	Inverter's Protection Room
Design	EMCC
Checked	EMCC
Drawing NO.	L- 12
Scale:	AS DRAWINGS
Date:	MAY. 2020