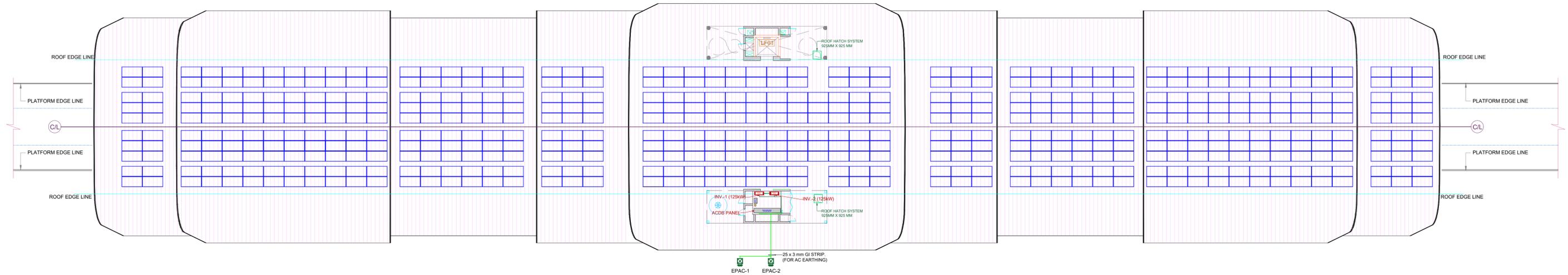
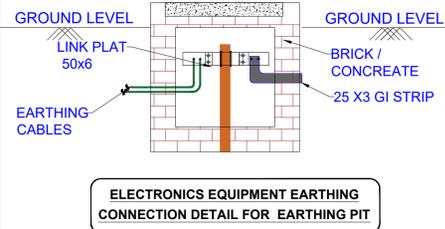
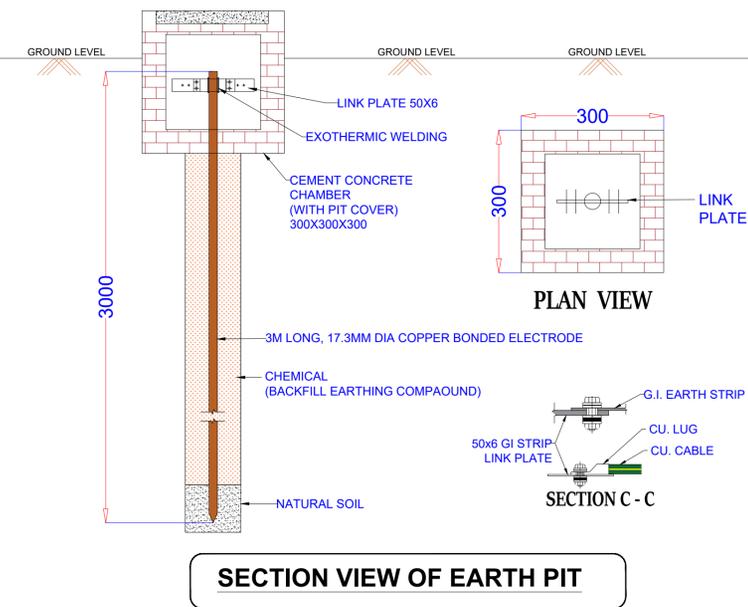


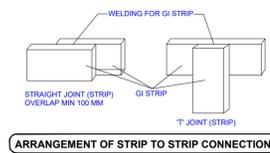
AC EARTHING LAYOUT



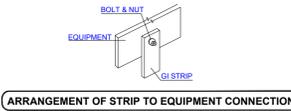
EARTHING AS PER IS 3043:1987



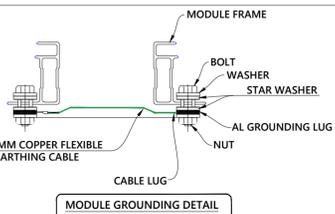
ELECTRONICS EQUIPMENT EARTHING CONNECTION DETAIL FOR EARTHING PIT



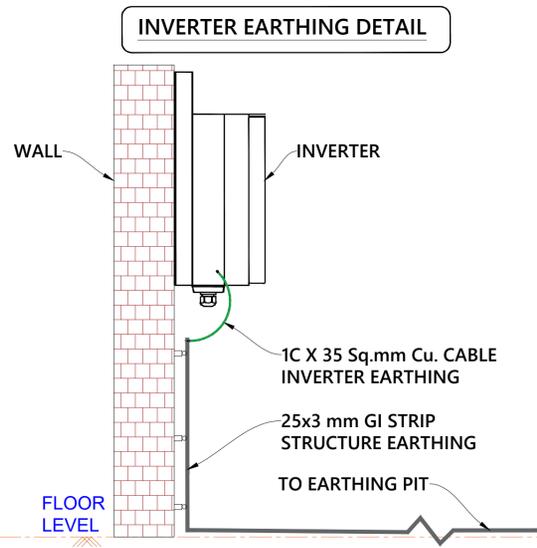
ARRANGEMENT OF STRIP TO STRIP CONNECTION



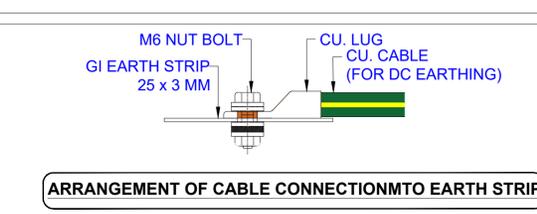
ARRANGEMENT OF STRIP TO EQUIPMENT CONNECTION



MODULE GROUNDING DETAIL

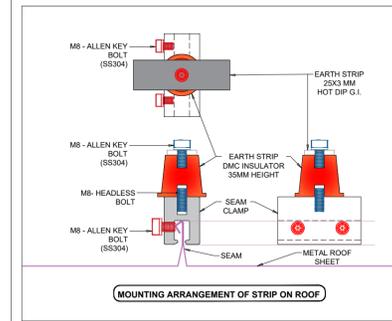


INVERTER EARTHING DETAIL



ARRANGEMENT OF CABLE CONNECTION TO EARTH STRIP

EARTH PIT NO	EARTH PIT LOCATION	NOS. OF EARTH PIT
EPDC : 1,2	MODULE, STRUCTURE, DCDB	2
EPAC : 1,2	INVERTER, ACDB PANEL	2



MOUNTING ARRANGEMENT OF STRIP ON ROOF

GENERAL NOTES (AC EARTHING) :

- EXISTING LIGHTNING ARRESTER ARE USE FOR LIGHTNING PROTECTION.
- EXISTING EARTHING WILL BE USED FOR AC SYSTEM AND LA.
- INVERTER EARTHING IS DONE WITH 35 SQ.MM. CU. CABLE & 25X3 MM HOT-DIP GI EARTH STRIP.
- ACDB PANEL IS DONE WITH 25X3 MM HOT-DIP GI EARTH STRIP.
- AC EARTHING STRIP CAN BE CONNECT WITH EXISTING EARTH STRIP.
- WHEREVER WELDING IS REQUIRED ARC WELDING SHOULD BE DONE AND WELDED JOINT SHOULD BE ALLOWED TO COOL NATURALLY.
- AFTER WELDED JOINT, BITUMEN PAINT SHOULD BE APPLIED.
- ACDB PANELS SHOULD BE EARTH AT MINIMUM TWO POINTS.
- ALL EQUIPMENTS SHOULD BE CONNECTED TO NEAREST EARTH GRID AND ALL EQUIPMENTS SHOULD EARTHED WEATHER SHOWN IN DRAWINGS OR NOT.

LEGENDS

	SOLAR MODULES
	INVERTER - 1 (125kW)
	INVERTER - 2 (125kW)
	AC DISTRIBUTION BOX
	EARTH PIT
	MODULE TO MODULE EARTHING
	EARTHIN CABLE FOR DC
	EARTH STRIP (FOR DC & AC)

SYSTEM DESCRIPTION

SITE LOCATION	18.5095809 N, 73.8134996 E
TOTAL PLANT CAPACITY (DC)	311.22 kWp
TOTAL PLANT CAPACITY (AC)	250.00 kW
DC / AC RATIO	1.24
MODULE CAPACITY	570 Wp (JINKO)
MODULE DIMENSION (L X W X H)	2278 X 1134 X 35 mm
NUMBER OF PV MODULES (SOUTH)	273 Nos.
NUMBER OF PV MODULES (NORTH)	273 Nos.
TOTAL PV MODULES	546 Nos.
INVERTER CAPACITY	125 kW - INVERTER - 1 & 2 Nos. (SUNGROW)
TILT	2°
AZIMUTH	172°(NORTH), -8° (SOUTH)

NOTES:
THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING/FIRE FIGHTING, ELECTRICAL AND TRAFFIC MANAGEMENT DRAWING.

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GPCD FROM THE ALREADY APPROVED CR DWG NO. REV. APPROVED ON DATE

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION.

- Proof checked by GC
- Being Given No Objection
- Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO



PROJECT: PUNE METRO RAIL PROJECT

The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, MH, India

CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD.

LOCATION: VANAZ METRO STATION

TITLE: GENERAL ARRANGEMENT LAYOUT (311.22 kWp(DC) ROOF TOP SOLAR PLANT)

SCALE: 1:200

DATE: 14/04/2023

STATUS:

DRG NO:

MWB11-JBP-EL-PRM-VNZ-DDT-0003



REVISION NO:

R1

DDC				CONTRACTOR		PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 14/04/2023	DATE: 14/04/2023	DATE: 14/04/2023	DATE: 14/04/2023	DATE:	DATE:	DATE:	DATE:
NAME: CMR	NAME: CMR	NAME: DGB	NAME: KHR	NAME:	NAME: ---	NAME: ---	NAME: ---
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY
DETAIL DESIGN CONSULTANT :				ACCEPTED BY		APPROVED BY	
 PROSUMERS SOLAR				 JHANTANI PROSUMERS SOLAR PVT. LTD.		 AECOM-SYSTRACEG (GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)	

REV NO	DATE	DESCRIPTION	SIGN

STRUCTURE