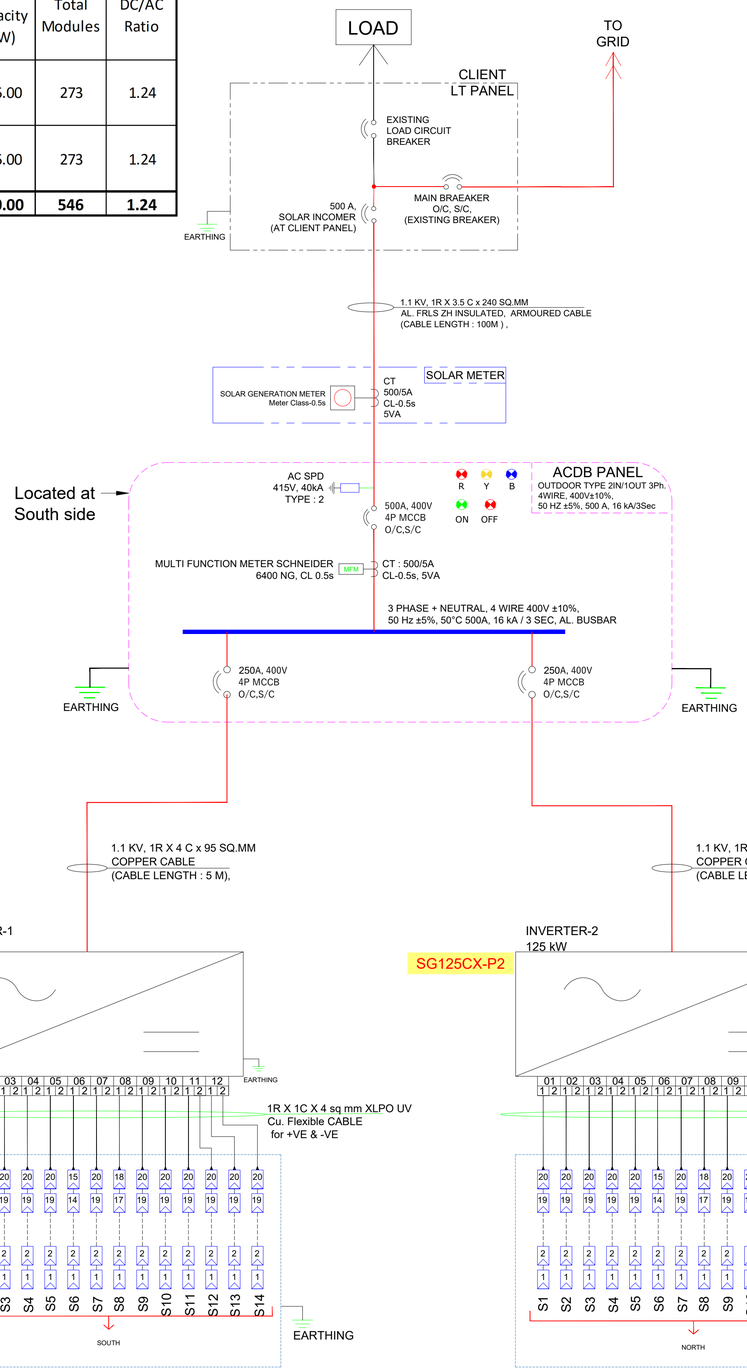
INVERTER STRING DETAILS

Inverter No.	Inverter (kW)	Total No. of Inverter	Module (Wp)	Module in Series	String in Parallel	DC Capacity (kWp)	AC Capacity (kW)	Total Modules	DC/AC Ratio
1	125	1	570	20	12	136.80	125.00	273	1.24
			570	18	1	10.26			
			570	15	1	8.55			
2	125	1	570	20	12	136.80	125.00	273	1.24
			570	18	1	10.26			
			570	15	1	8.55			
				Total =	**28**	**311.22**	**250.00**	**546**	**1.24**



INVERTER-1,2 LEGEND	
INVERTER POWER	125.00 kW
NO. OF INVERTER	2
INVERTER MODEL	SG125CX-P2
MPPT VOLTAGE RANGE	180-1000 V
MAX. DC VOLTAGE	1100 V
INVERTER MAX. O/P (AC)	110.00 kVA
MAX. AC O/P CURRENT	181.1 A
NOMINAL O/P VOLTAGE	400 V
NUMBER OF MPPT	12

MODULE LEGEND (STC)	
MODULE POWER	570 WP
NO. OF MODULE	546 Nos.
MODULE MODEL	JKM570N-72HL4 JKM570N-72HL4-V
Voc	50.74 V
Vmp	42.07 V
Isc	14.31 A
Imp	13.55 A

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 2 Nos. (SUNGROW)
TILT	2°
AZIMUTH	172°(NORTH) , -8° (SOUTH)

SYMBOLS NOMENCLATURE

	PV MODULE
	STRINGING INVERTER
	EARTHING
	SURGE PROTECTION DEVICE
	DC MINIATURE CIRCUIT BREAKER (MCB)
	DC FUSE
	CT(CURRENT TRANSFORMER)
	MOULDED CASE CIRCUIT BREAKER (MCCB)
	R,Y,B LIVE INDICAIING LAMPS
MFM	MULTIFUNCTION ENERGY METERS
	SOLAR ENERGY GENERATION METER
	CIRCUIT BREAKER OFF
	CIRCUIT BREAKER ON

INVERTER PROTECTION 125 kW:-
**ANTI ISLANDING PROTECTION

1. OUTPUT OVERVOLTAGE PROTECTION
   INPUT OVERVOLTAGE FOR EACH MPPT
2. ANTI-ISLANDING PROTECTION
3. IP65 PROTECTION RATING
4. DC REVERSE POLARITY PROTECTION
5. SAFETY STANDARD
   IEC62109-1(2010),IEC62109-2(2011)

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 GFCD 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

	DDC			CONTRACTOR	PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:		SIGN:	SIGN:		SIGN:	
DATE: 15/04/2023	DATE: 15/04/2023	DATE: 15/04/2023	DATE: 15/04/2023	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		APPROVED BY	

DETAIL DESIGN CONSULTANT : PROSUMERS SOLAR

JHAMTANI PROSUMERS SOLAR PVT. LTD.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

DY. HOD

HOD

REV NO	DATE	DESCRIPTION	SIGN

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: OVERALL SINGLE LINE DIAGRAM (311.22 kWp(DC) ROOF TOP SOLAR PLANT)

SCALE: NTS. | DATE: 15/04/2023 | STATUS:

DRG NO: MWB11-JBP-EL-PRM-VNZ-DLD-0001

REVISION NO: R2

STRUCTURE

TBA