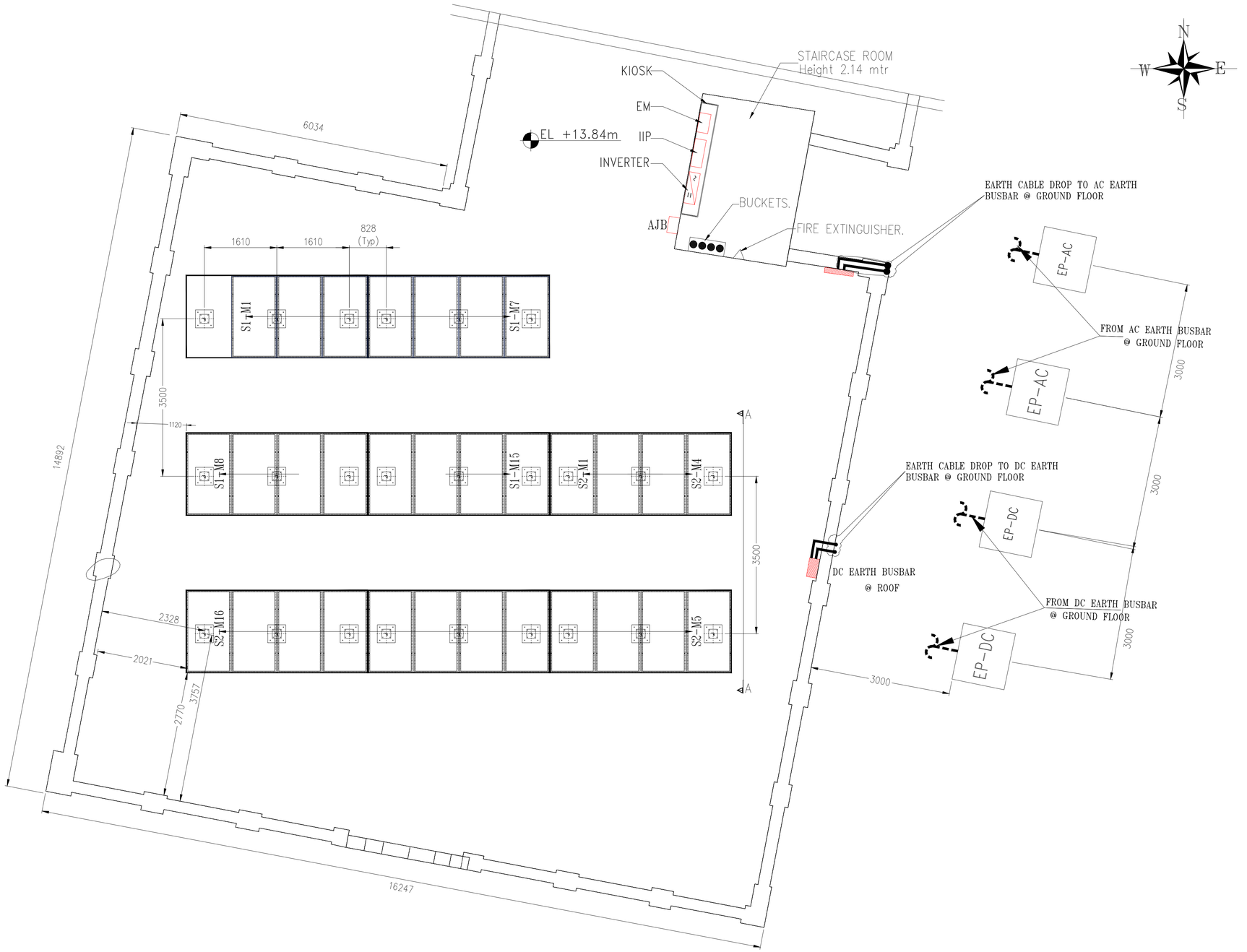
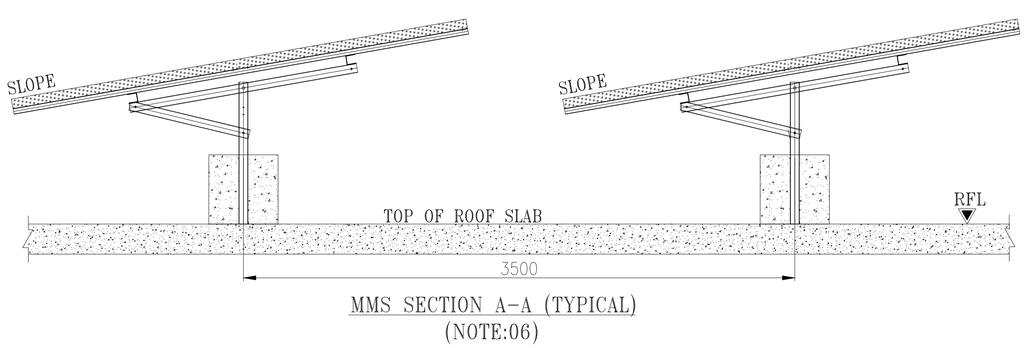
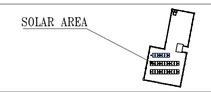




MMS SECTION A-A (TYPICAL)
(NOTE:06)

KEY PLAN:-



ABBREVATIONS/LEGENDS:-

- MODULES.
- STRING INVERTER.
- EP – EARTH PIT
- IIP
- AJB
- BOUNDARY WALL
- FIRE EXTINGUISHER.
- BUCKETS.
- FOUNDATION
- 4Cx10 Sq.mm Al, XLPE INSULATED EARTH CABLE
- AL EARTH BUS BAR (FOR AC & DC)
- KIOSK
- ENERGY METER
- ELEVATION LEVEL
- AJB – ARRAY JUNCTION BOX
- INV – INVERTER
- IIP – INVERTER INTERFACING PANEL
- Cu – COPPER
- Al – ALUMINIUM
- GIP – GRID INTERFACING PANEL
- EM – ENERGY METER

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. FOR MODULE & INVERTER DETAILS PLEASE REFER THE DATA SHEETS.
3. TREE BRANCHES SURROUNDING THE BUILDINGS AND COLUMNS ON ROOF SHALL BE TRIMMED.
4. LOCATION OF AJB NEAR TO STAIRCASE ROOM AT ROOF TOP SHOWN IS INDICATIVE ONLY. THE SAME SHALL BE DECIDED AS PER SITE CONDITION.
5. LOCATION OF KIOSK(INV, IIP, DL/MODEM, EM)INSIDE THE STAIRCASE SHOWN IS INDICATIVE ONLY. THE SAME SHALL BE DECIDED AS PER SITE CONDITION.
6. MODULE MOUNTING STRUCTURE SHOWN IS INDICATIVE. PLEASE REFER TYPICAL MMS GA DRAWINGS FOR DETAILS.
7. PLEASE REFER TYPICAL EARTHING DRAWING FOR EARTHING DETAILS.
8. EARTH BUSBAR FOR DC AND AC @ ROOF LOCATION SHOWN IN THE LAYOUT IS TENTATIVE.SAME SHALL BE DECIDED AS PER SITE CONDITION.
9. EARTH PIT LOCATION SHOWN IN THE LAYOUT IS TENTATIVE, SAME SHALL BE DECIDED AS PER SITE CONDITION.
10. FIRE EXTINGUISHER SHALL BE PLACED NEAR TO LT PANELS/STAIRECASE ROOM CLOSE TO PV ARRAY.
11. EARTH CABLE FOR MMS SHALL BE CONNECTED WITH COLUMN OF EACH MODULE MOUNTING STRUCTURE.
12. CONDUIT EDGES SHALL BE FILLED WITH SEALANT PROPERLY.
13. FLEXIBLE CONDUIT SHALL BE USED FROM STRING (END MODULE) TO DC CABLE CONDUIT ENTRY.
14. STRING SIZE (NUMBER OF MODULES IN SERIES) OF INDIVIDUAL MPPT SHOULD BE SAME.
15. 1Cx4SQMM SOLAR CABLE WILL BE USED FOR DC SYSTEM.
16. AC CABLE FROM INVERTER TO IIP TO EM SHALL BE LAID THROUGH CABLE CONDUIT OR WITH CABLE SADDLE SUITING SITE CONDITION.
17. FOR TERMINATION OF 10KW SYSTEM AND AND 20KW SYSTEM TO LT PANEL 4CX6SQMM AND 4CX10SQMM CU AC CABLE WILL BE USED RESPECTIVELY.
18. INTERCONNECTION FROM EM TO GIP SYSTEM, THE CABLE SHALL BE LAID IN CABLE CONDUIT ON ROOF AND CABLE TRAY ON WALL.
19. FOR STRING CONFIGURATION REFER TYPICAL SLD.
20. INTERCONNECTION OF SPV SYSTEM SHALL BE MADE WITH THE EXISTING LT PANEL THROUGH SPARE FEEDER OF SUITABLE RATING SHALL BE ENSURED BY CLIENT (WBREDA).
21. THE DIMENSION OF ELECTRICAL EQUIPMENT SHALL BE CHANGED BASED ON FINAL VENDOR SELECTION.
22. MODULE STRINGING SHALL BE DONE AS PER THE MODULE NUMBERING SERIES FOR EACH STRING.

SX-MX
- MODULE NUMBERED IN SERIES FOR STRINGING
- STRING NUMBER

PLANT DETAILS:-

SL.NO	DESCRIPTION	DETAILS
01.	PLANT CAPACITY	10.075kWp
02.	INVERTER CAPACITY	10 kW
03.	MODULE WATTAGE	325Wp
04.	NO. OF MODULES	31 Nos.
05.	MODULE IN SERIES	15 & 16nos
06.	NO. OF STRINGS	2 Nos.
07.	STRUCTURE TILT	23°
08.	ROOF AREA	223.0 (Sq.mtrs.)
09.	LATITUDE LONGITUDE	22.604424° 88.369737°
10.	BUILDING HEIGHT	13.84 M
11.	PARAPET WALL HEIGHT	1.3 M
12.	1X4 MMS	8 Nos

THIS DRAWING IS APPLICABLE FOR PACKAGES AS PER BELOW SELECTION CHART:

PACKAGE NO	SITE UNDER DISTRICT	APPLICABLE	PACKAGE NO	SITE UNDER DISTRICT	APPLICABLE	PACKAGE NO	SITE UNDER DISTRICT	APPLICABLE
I	BANKURA	☒	V	MALDA	☒	IX	PASCHIM MEDINIPUR	☒
II	DARJEELING	☒	VI	MURSHIDABAD	☒	X	SOUTH 24 PARGANAS	☒
III	JALPAIGURI	☒	VII	NADIA	☒			
IV	KOLKATA	☑	VIII	NORTH 24 PARGANAS	☒	XI	UTTAR DINAJPUR	☒

REV. No	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
A	FOR APPROVAL	SRPL 12.09.19	SRPL 12.09.19	SKS 12.09.19	MB 12.09.19

REVISIONS

L&T Construction
Power Transmission & Distribution IC (Solar Projects)

CLIENT: WEST BENGAL RENEWABLE ENERGY DEVELOPMENT AGENCY
CONSULTANT : -

PROJECT : GRID CONNECTED ROOFTOP SOLAR PV POWER PLANTS (10 & 20 KWp) AT VARIOUS LOCATIONS OF WEST BENGAL

SUPPLIER / CONTRACTOR : *L&T Construction* *Solar Projects*

JOB No. : O19100-PTD-S

TITLE : LAYOUT FOR MAHARAJA COWSIM BAZZAR POLYTECHNIC INSTITUTE_10kW.

	NAME	SIGN	DATE
DSGN	SRPL	SRPL	12.09.19
DRWN	SRPL	SRPL	12.09.19
CHKD	SKS	SKS	12.09.19
APPD	MB	MB	12.09.19

SCALE 1:100

PROJECTION

DRG. No. O 1 9 1 0 0 – P T D – S – K O – L O – 0 0 1 6 SHEET 01 OF 01

SIZE A2 REV. A

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☑ APPROVAL ☐ CONSTRUCTION