

Shillong Smart City Limited
Shillong, Meghalaya

Bidding Document

for

**GRID CONNECTED ROOF TOP SOLAR
PHOTO-VOLTAIC SYSTEM AT VARIOUS BUILDINGS IN
SHILLONG, EAST KHASI HILLS DISTRICT,
MEGHALAYA UNDER SMART CITIES MISSION**

Section 6: Drawings

Tender No.: SSCL/Tender/2020-21/MEG-SHI-012

Office of the Shillong Smart City Limited

House No. C/B-037, Top Floor,
Centre Nongrim Hills, Near JJ Cables, Shillong,
East Khasi Hills District, Meghalaya – 793003

List of Buildings under Project

Details of buildings identified for Grid connect Solar PV System.

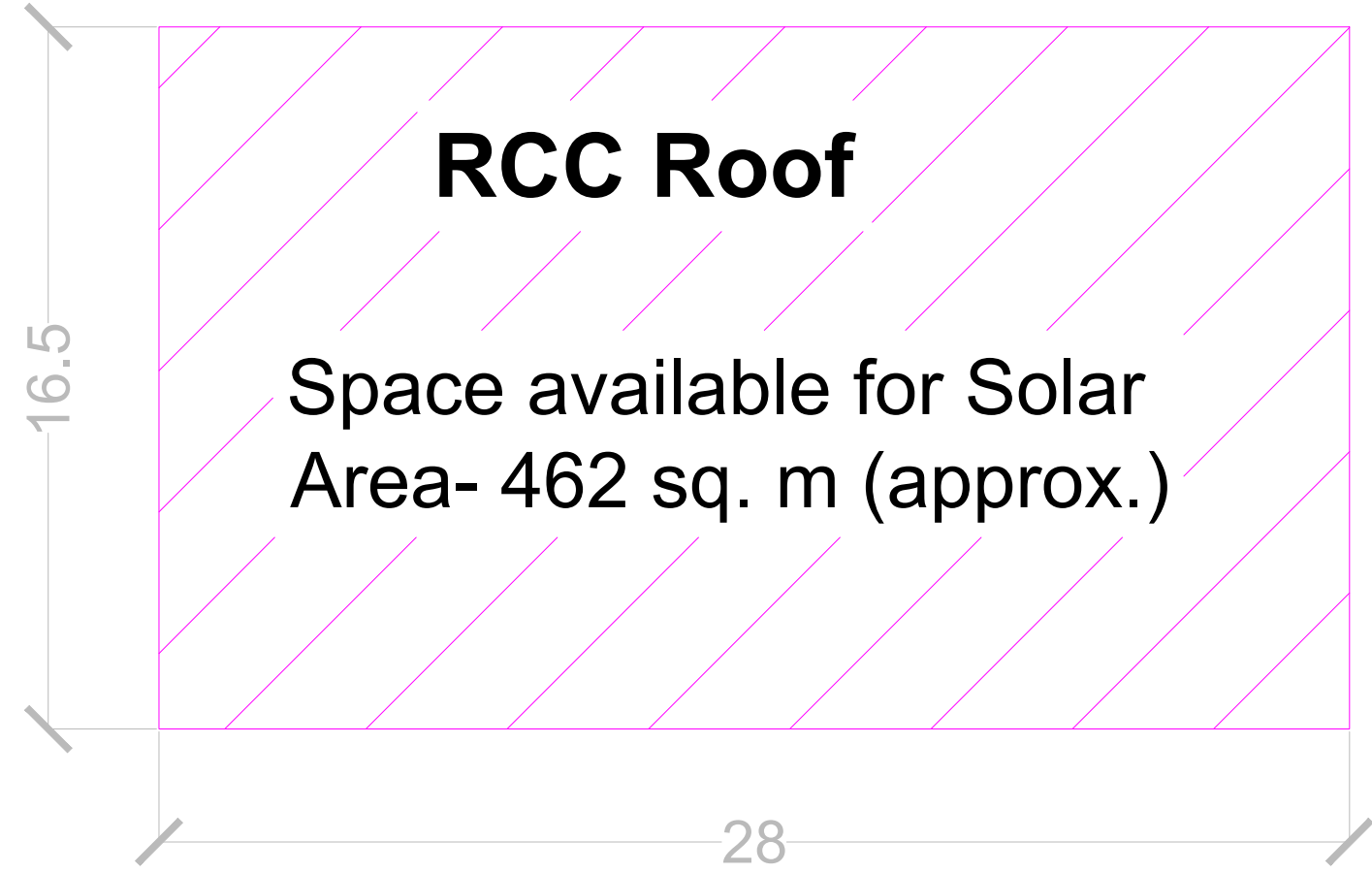
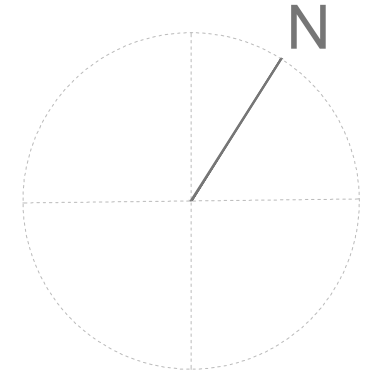
S. No.	Name of the building	Concerned Department/ Agency	Jurisdiction	Available Roof Top Area (Sqm) @90% of total roof area identified for solar installation	Capacity of Solar Plant (KWp)
1	Raitong Building	Urban Affairs Department	State Govt.	415.80	42.00
2	State Disaster Management Authority	Revenue and Disaster Management Department	State Govt.	236.19	6.00
3	Secretariat, Government of Meghalaya	Secretariat Administration Department	State Govt.	882.54	88.00
4	3 rd Secretariat Building	Secretariat Administration Department	State Govt.	812.70	81.00
5	Directorate of Printing and Stationery, Government of Meghalaya	Printing and Stationery Department	State Govt.	2,195.10	189.00
6	Office of the Chief Commissioner of Income Tax	Income Tax Department	Central Govt.	811.44	81.00
7	BSNL Circle Office	BSNL	Central Govt.	882.00	88.00
8	National Informatics Centre (NIC)	Department of IT&C, Govt. of Meghalaya	State Govt.	352.49	35.00
9	Office of Public Works Department (PWD)	Public Works Department	State Govt.	622.80	62.00
10	Office of Public Health and Engineering Department (PHED)	Public Health and Engineering Department	State Govt.	986.90	99.00
11	Jawaharlal Nehru Stadium	Shillong Recreational Grounds Trust (SRGT)	State Govt.	9,252.72	925.00
12	State Sports Council, District Sports Complex (Indoor Stadium)	Department of Sports and Youth Affairs	State Govt.		
13	Indoor Training Hall, Polo, Shillong	Department of Sports and Youth Affairs	State Govt.		
14	The Meghalaya Co-Operative Apex Bank Ltd, Police Bazar	The Meghalaya Co-Operative Apex Bank Ltd.	State Govt.	351.00	35.00
15	Director of Account (Postal) - DAP	Postal and Communication Department	Central Govt.	919.54	92.00
16	District Transport Office	Transport Department	State Govt.	523.09	25.00
17	High Court of Meghalaya	High Court	State Govt.	1,375.61	138.00
18	Meghalaya Public Service Commission Office, Horse Shoe Building	Public Service Commission	State Govt.	1,275.93	100.00
19	State Central Library, Captain Williamson Sangma State Museum	Department of Art and Culture	State Govt.	2,002.50	200.00
20	SSA Football Ground	Shillong Recreational Grounds Trust (SRGT)	State Govt.	2,361.52	236.00
21	Meghalaya Urban Development Authority Complex	Meghalaya Urban Development Authority	State Govt.	604.80	60.00

S. No.	Name of the building	Concerned Department/ Agency	Jurisdiction	Available Roof Top Area (Sqm) @90% of total roof area identified for solar installation	Capacity of Solar Plant (KWp)
22	Vendors Market	Shillong Municipal Board (SMB)	State Govt.	1,485.00	149.00
23	Regional office of Meghalaya Board of Secondary Education (MBOSE) Meghalaya State Law Commission Office of the District Treasury Officer	MBOSE and Law Department	State Govt.	826.52	10.00
24	Office of the Director General of Police (DGP)	Police Department	State Govt.	270.00	27.00
25	Pine Mount School	Directorate of School Education and Literacy	State Govt.	681.30	13.00
26	Shillong Public School	Directorate of School Education and Literacy	State Govt.	635.40	14.00
27	Directorate of Higher technical Education	Directorate of Higher & Technical Education	State Govt.	306.00	9.00
28	EMBOSE GUEST HOUSE	Directorate of School Education and Literacy	State Govt.	72.90	4.00
29	Directorate of School Education and Literacy	Directorate of School Education and Literacy	State Govt.	643.50	21.00
30	Government Girl's Higher Secondary School	Directorate of School Education and Literacy	State Govt.	229.50	12.00
31	Government Boy's Higher Secondary School	Directorate of School Education and Literacy	State Govt.	867.60	10.00
32	Office complex of Meghalaya State Warehousing Corporation	Meghalaya State Warehousing Corporation	State Govt.	180.00	7.00
33	Annexe Building to High Court	High Court	State Govt.	900.00	90.00
34	Office of the Transport Commissioner	Transport Department	State Govt.	162.00	10.00
35	Proposed new Multi-Level Car Parking at Motphran	Shillong Smart City Limited	State Govt.	450.00	45.00
36	Existing Multilevel Parking Building at Khlieh lew	MUDA	State Govt.	2,304.00	230.00
37	Existing Multilevel Parking Building at Mowlonghat	Shillong Municipal Board (SMB)	State Govt.	2,025.00	203.00
38	Existing Multilevel Parking Building opposite to Anjalee Galleria	Shillong Municipal Board (SMB)	State Govt.	2,160.00	216.00
39	Proposed Commercial Complex at Polo	Shillong Smart City Limited	State Govt.	1,800.00	180.00
40	Proposed Building for Integrated Command and Control Centre (ICCC)	Shillong Smart City Limited	State Govt.	405.00	41.00
41	Proposed Laitumkhrah Market	Shillong Municipal Board (SMB)	State Govt.	1,350.00	135.00
	Total Area			44,618.37	4,008.00 4 MWp

* PLEASE NOTE: THE LIST OF BUILDINGS GIVEN ABOVE IS AS PER THE CURRENT REQUIREMENT, THE SAME IS SUBJECT TO CHANGE AT ANY TIME AT THE DISCRETION OF THE EMPLOYER .

Roof Plans of Buildings

RAITONG BUILDING



For Tender Purpose Only

- GENERAL NOTES:**
1. All dimensions are in meters, if otherwise specified.
 2. Dimensions are to be read and not to be scaled.
 3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 4. Solar PV Module conversion efficiency shall not be less than 16.5%.
 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IFE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

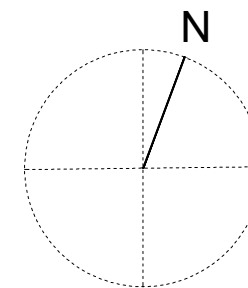
REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR RAITONG BUILDING

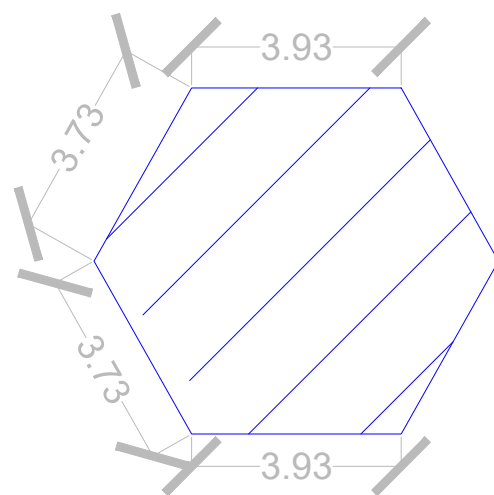
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/01	REVISION R 0
--	------------------------

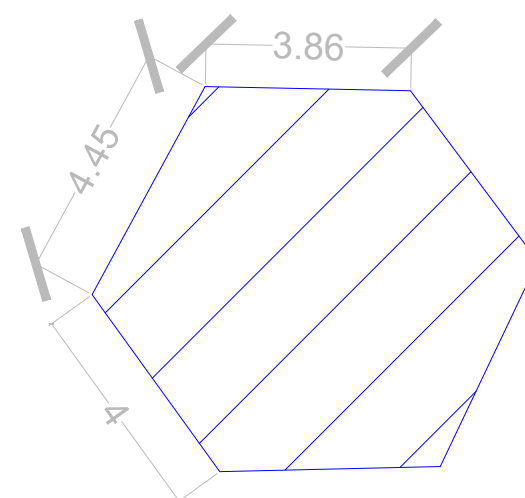
STATE DISASTER MANAGEMENT CENTRE



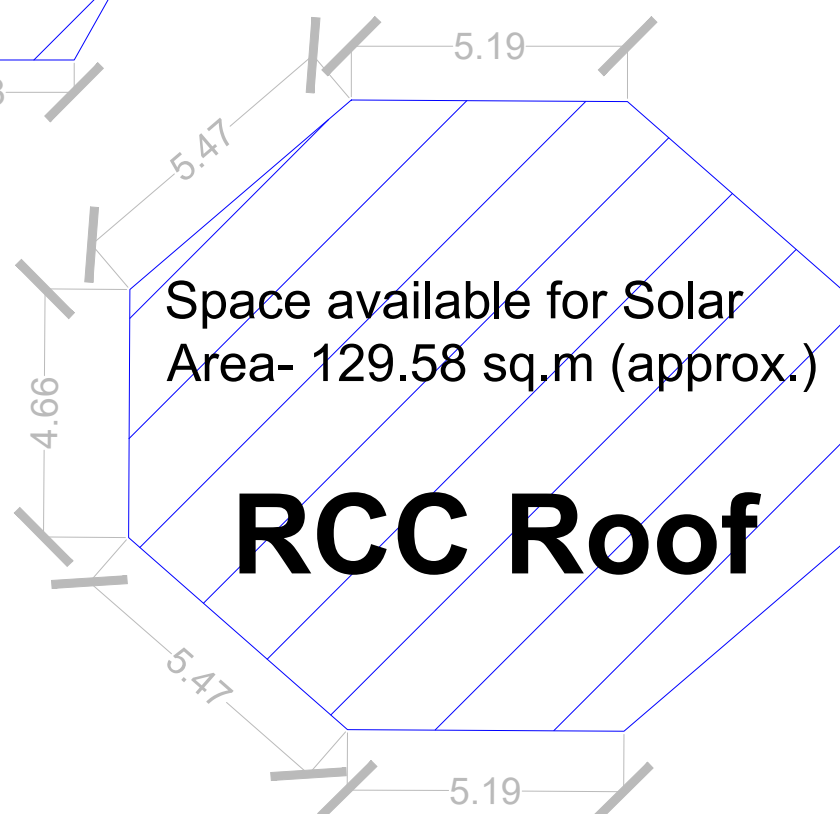
Space available for Solar
Area- 37.5 sq.m (approx.)



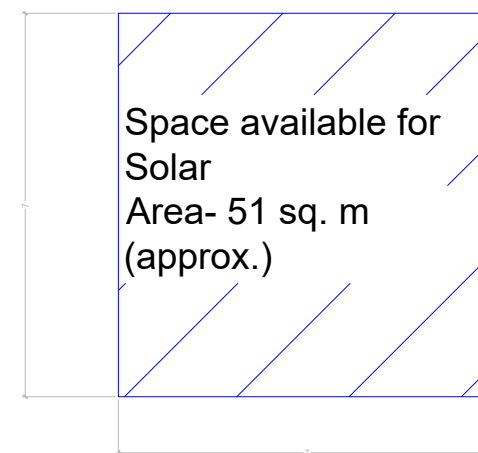
Space available for Solar
Area- 44.35 sq.m (approx.)



Space available for Solar
Area- 129.58 sq.m (approx.)



Space available for Solar
Area- 51 sq. m
(approx.)



GENERAL NOTES:

- All dimensions are in meters, if otherwise specified.
- Dimensions are to be read and not to be scaled.
- Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
- Solar PV Module conversion efficiency shall not be less than 16.5%.
- Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
- All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
- DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
- The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
- Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
- Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR STATE DISASTER MANAGEMENT AUTHORITY

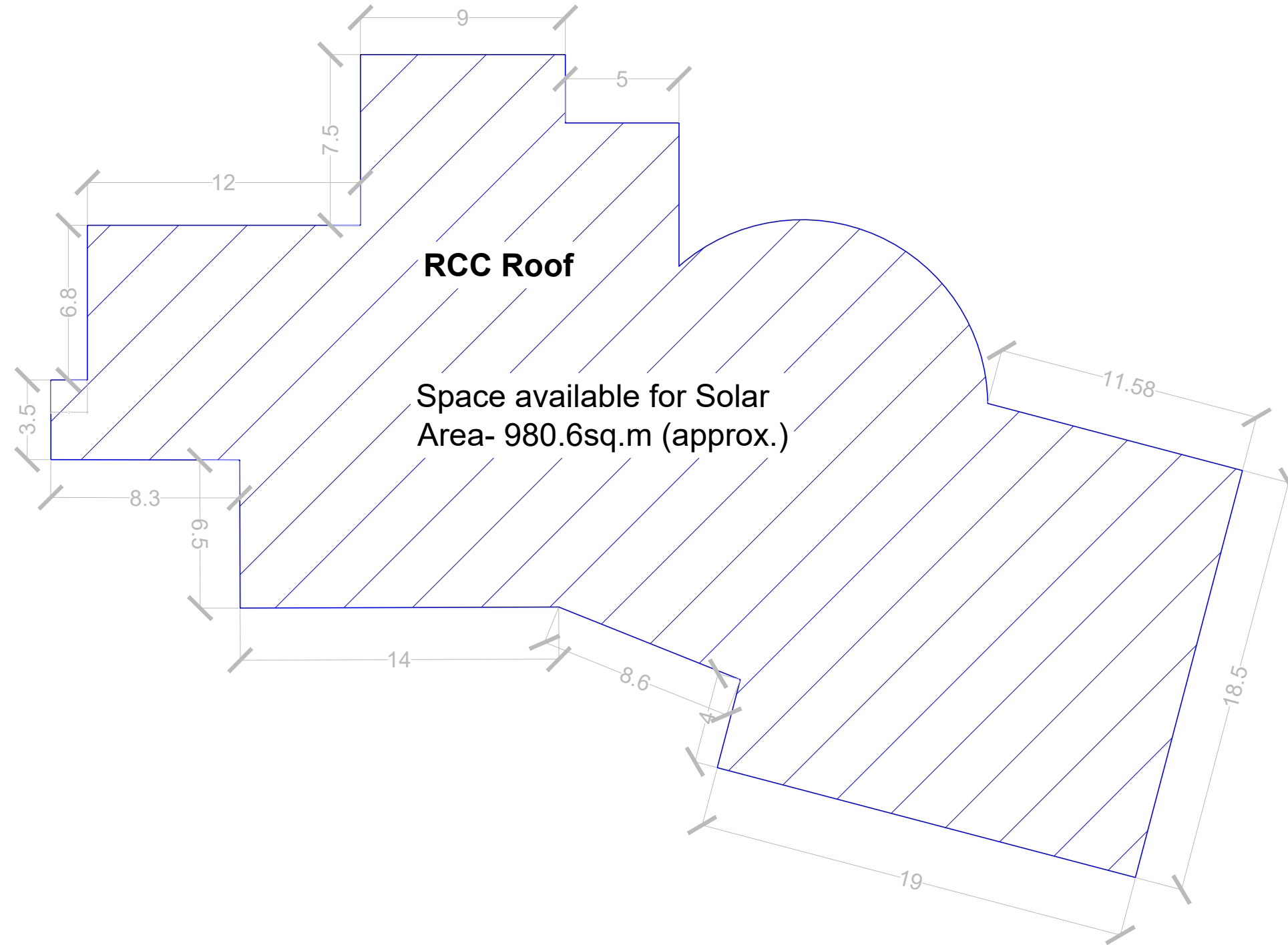
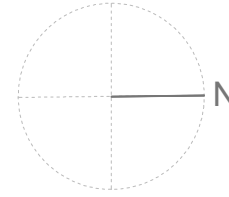
Date:	PREPARED :
16-05-2022	AZEL MESHAI KHARBHH
Scale	CHECKED :
NTS	M. MUSHTAQ KHAN
Sheet Size	APPROVED :
A3	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/02

REVISION
R 0

For Tender Purpose Only

SECRETARIAT BUILDING



For Tender Purpose Only

GENERAL NOTES:

- All dimensions are in meters, if otherwise specified.
- Dimensions are to be read and not to be scaled.
- Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
- Solar PV Module conversion efficiency shall not be less than 16.5%.
- Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
- All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
- DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
- The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
- Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
- Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

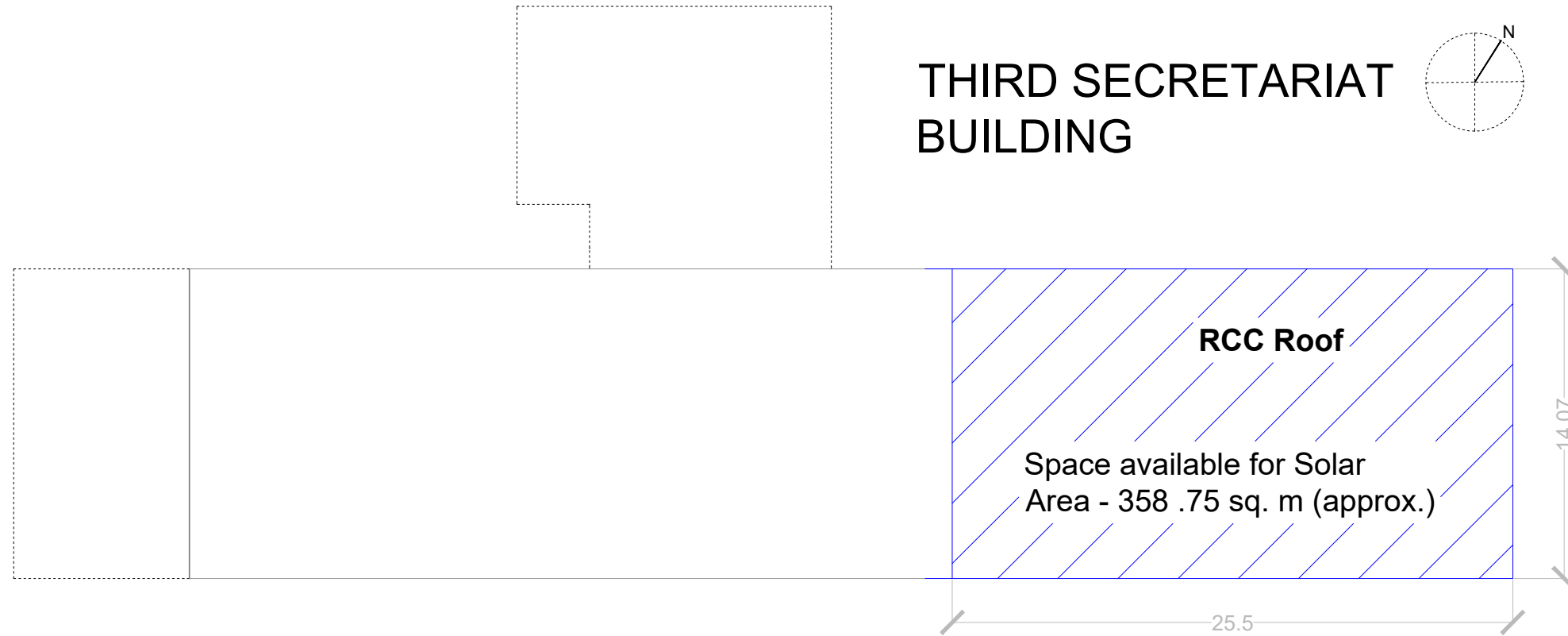
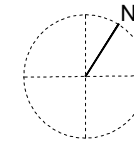
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR SECRETARIAT, GOVERNMENT OF MEGHALAYA

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/03

REVISION
R 0

THIRD SECRETARIAT BUILDING



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO-VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

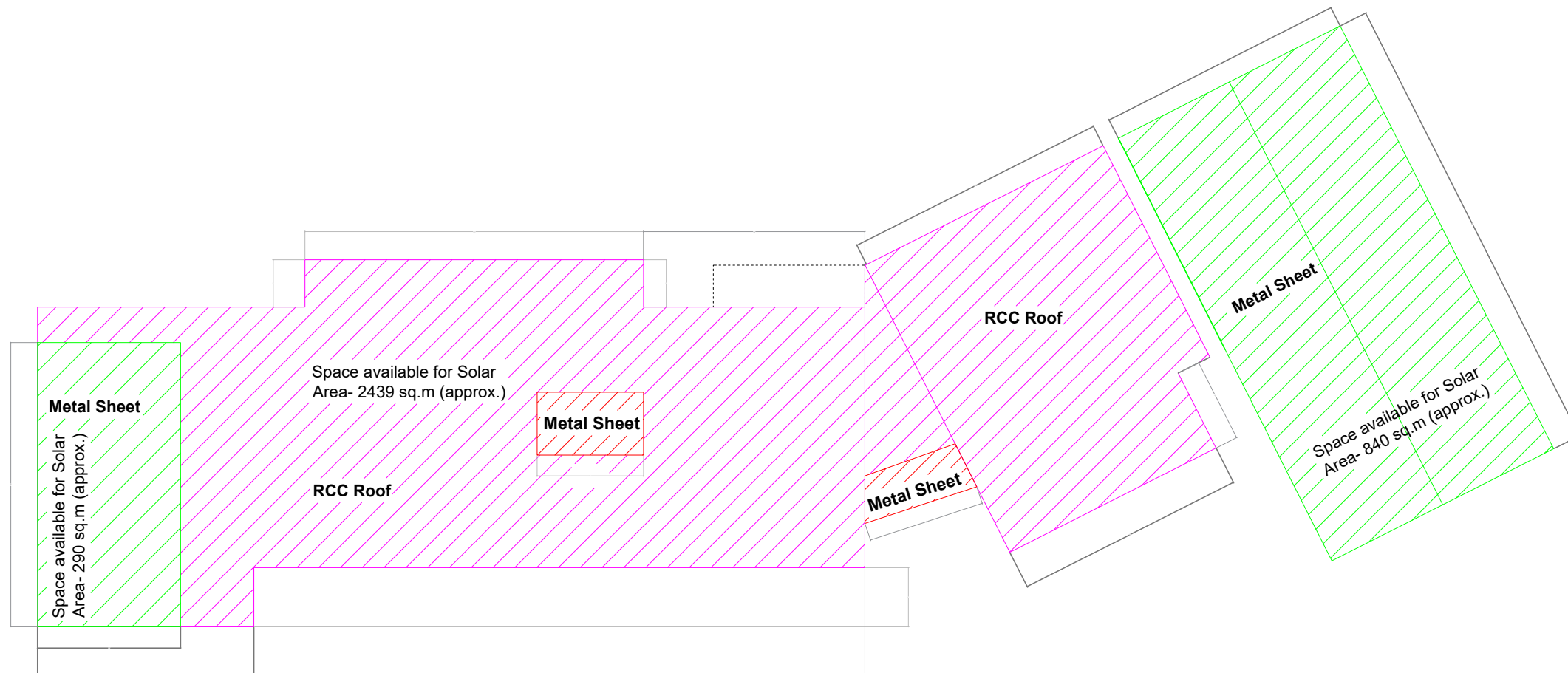
PROPOSED LOCATION FOR SOLAR ROOFTOP SYSTEM FOR 3rd SECRETARIAT BUILDING

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/04

REVISION
R 0

DIRECTORATE OF PRINTING AND STATIONERY



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

R0	16-05-22	HARD COPY	A.V.
REV.	DATE	DESCRIPTION	APPROV.

REVISION INDEX

DRAWING TITLE:

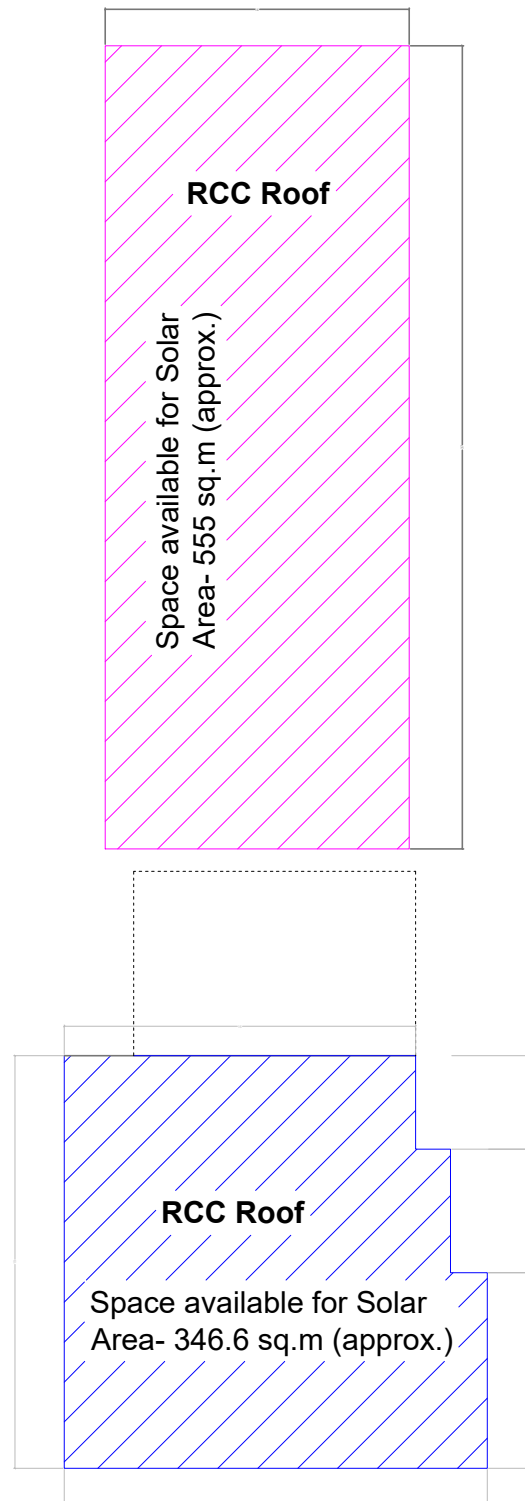
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR DIRECTORATE OF PRINTING AND STATIONERY, GOVERNMENT OF MEGHALAYA

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

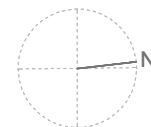
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/05

REVISION
R 0

For Tender Purpose Only



O/o. CHIEF COMMISSIONER OF INCOME TAX



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

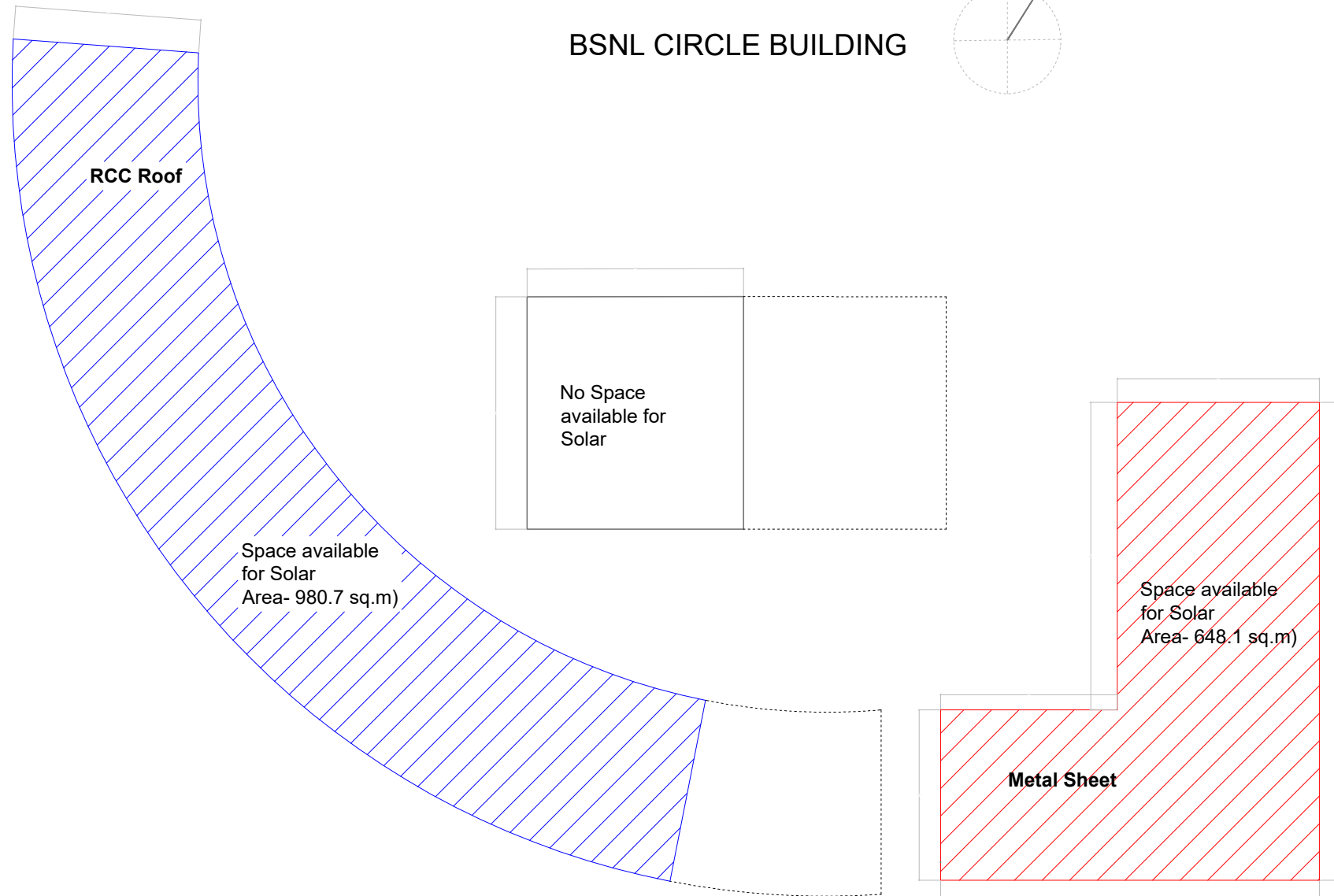
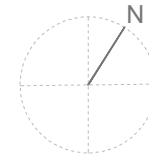
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR OFFICE OF THE CHIEF COMMISSIONER OF INCOME TAX

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/06

REVISION
R 0

BSNL CIRCLE BUILDING



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR BSNL CIRCLE OFFICE

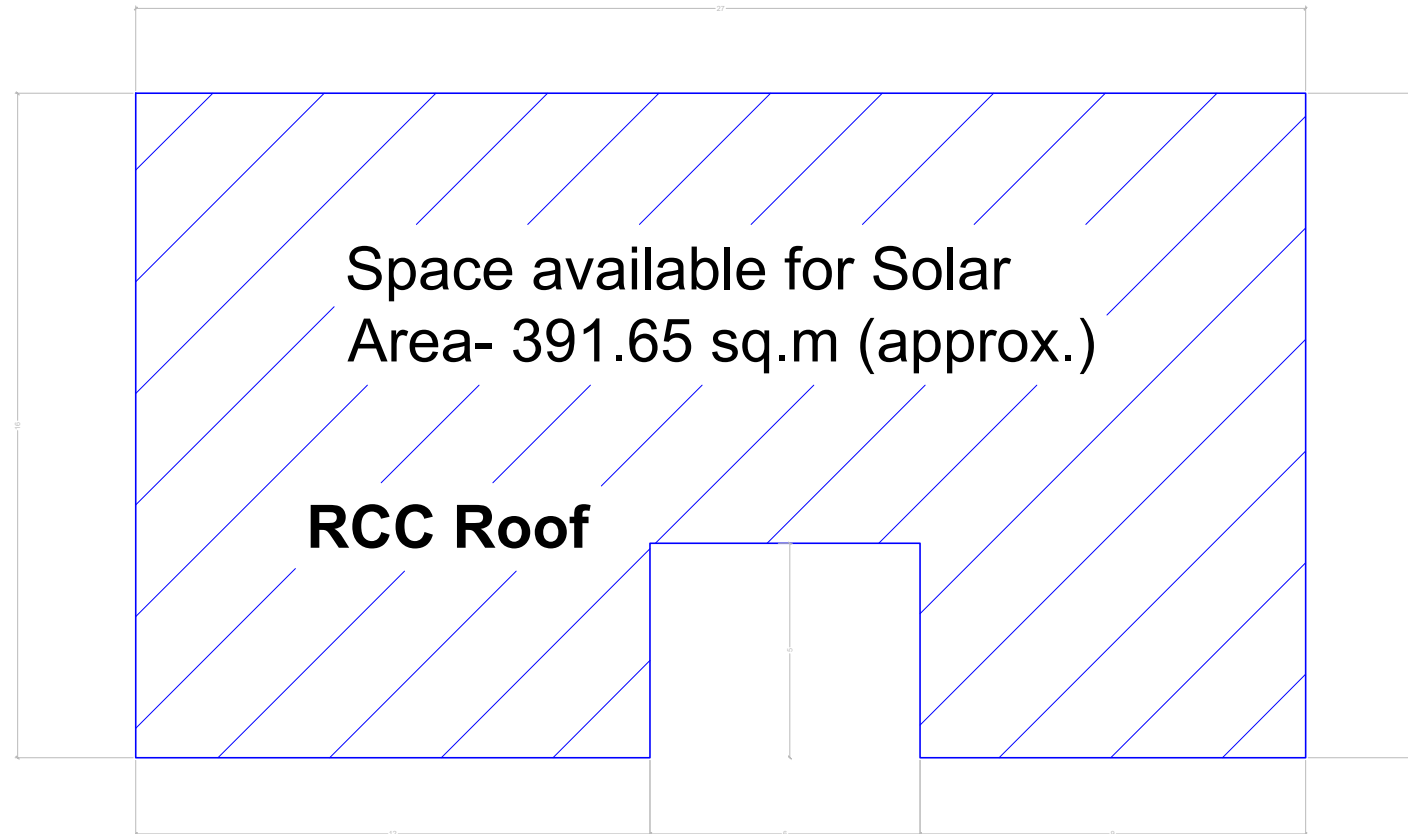
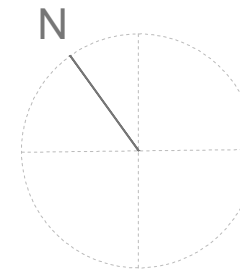
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/07

REVISION
R 0

For Tender Purpose Only

NATIONAL INFORMATICS CENTRE



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

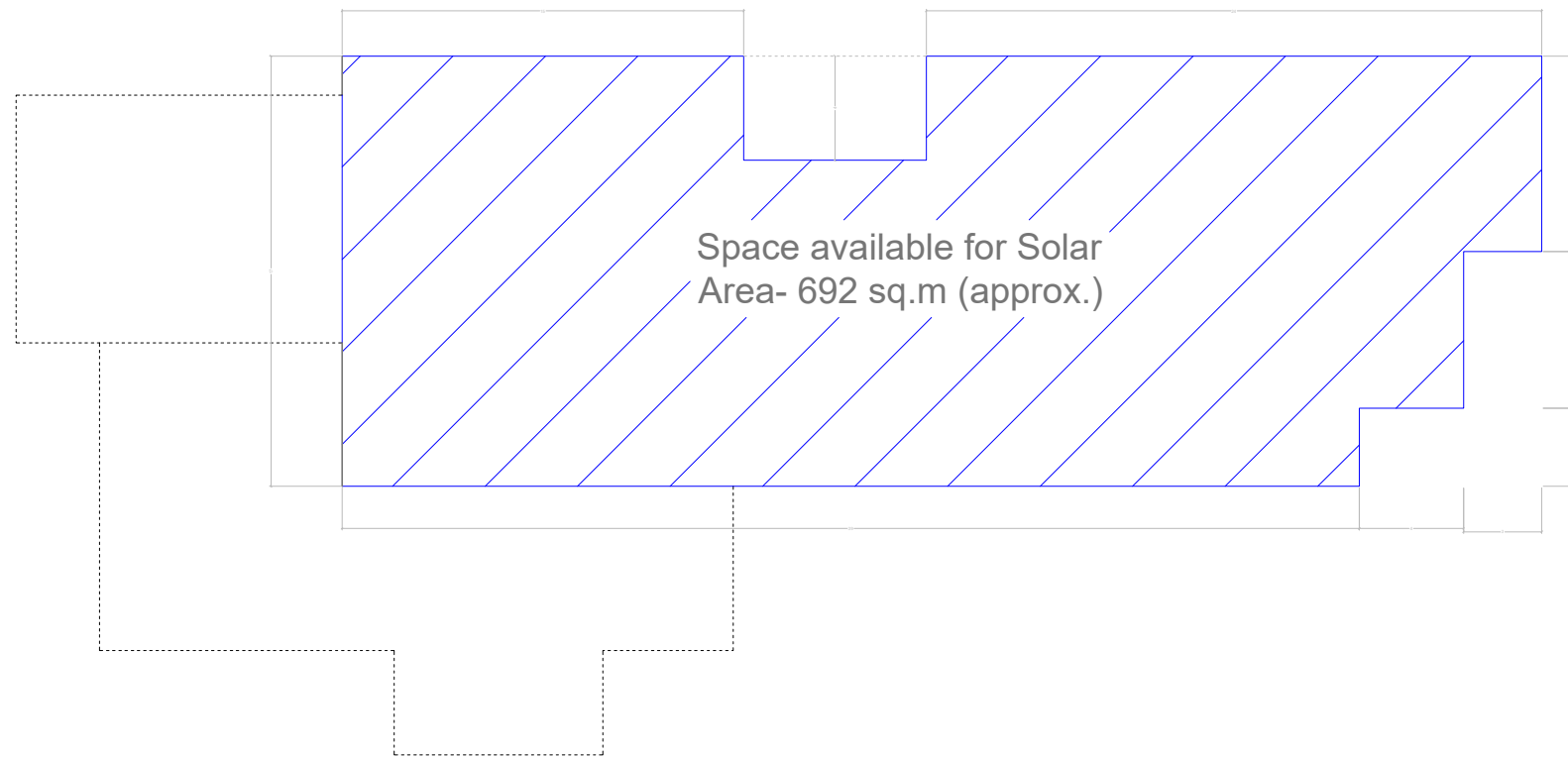
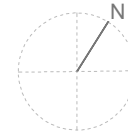
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR NATIONAL INFORMATICS CENTRE (NIC)

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/08

REVISION
R 0

OFFICE OF PUBLIC WORKS DEPARTMENT (PWD)



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof conform to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

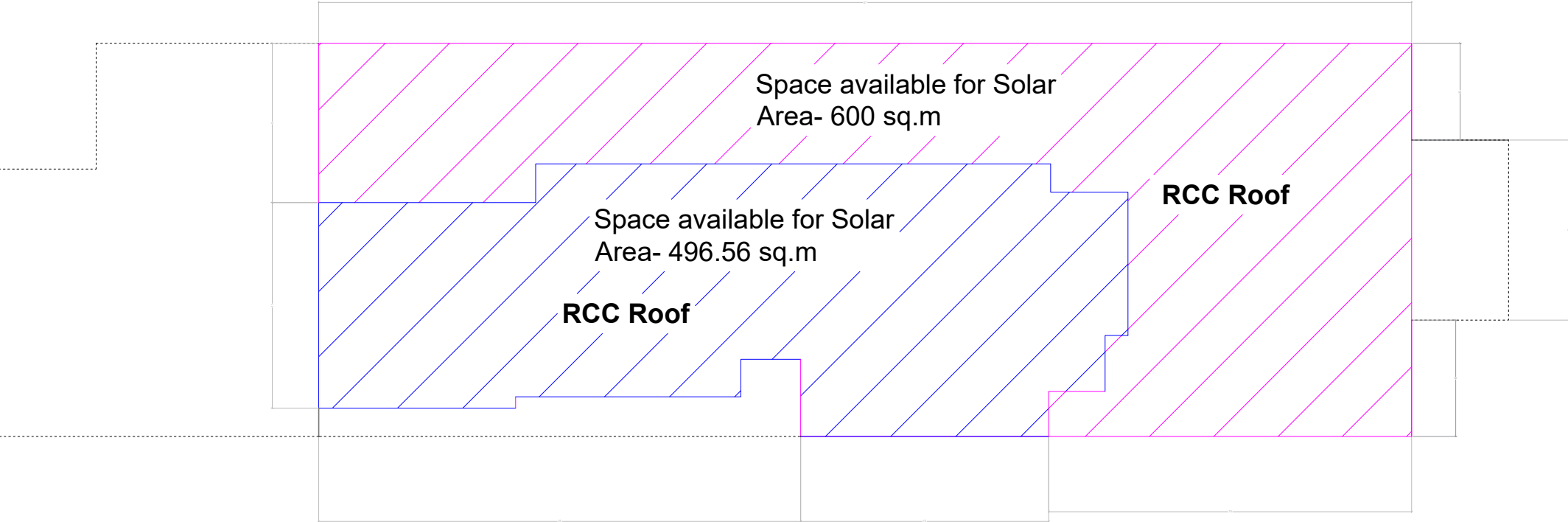
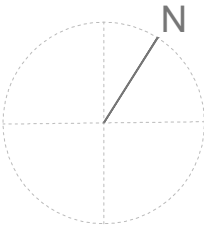
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR OFFICE OF PUBLIC WORKS DEPARTMENT (PWD)

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHII
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/09

REVISION
R 0

PUBLIC HEALTH AND ENGINEERING DEPARTMENT BUILDING



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
Consultant
IPE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR OFFICE OF PUBLIC HEALTH AND ENGINEERING DEPARTMENT (PHED)

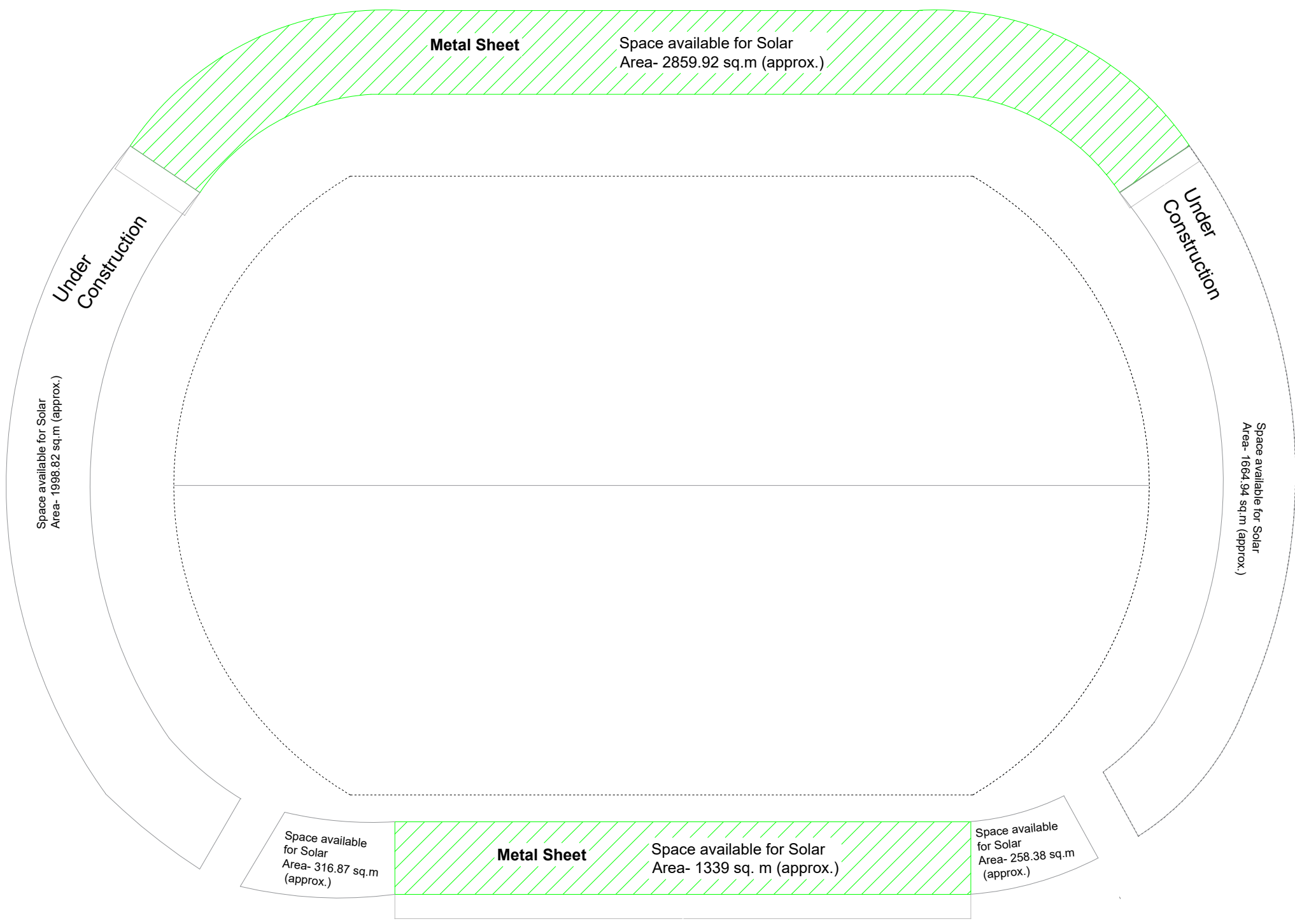
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/010

REVISION
R 0

For Tender Purpose Only

JAWAHARLAL NEHRU STADIUM



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IPE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR JAWAHARLAL NEHRU STADIUM

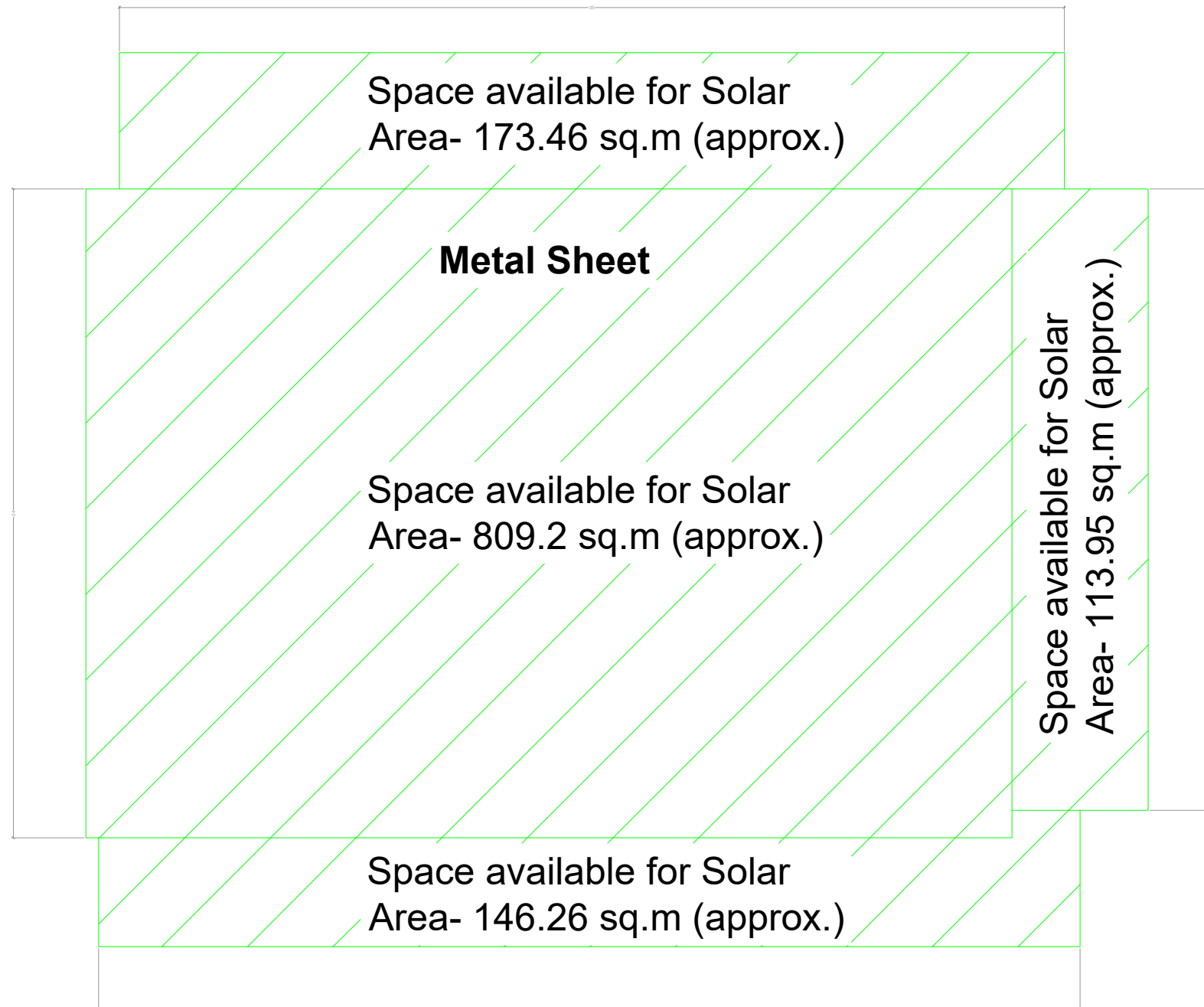
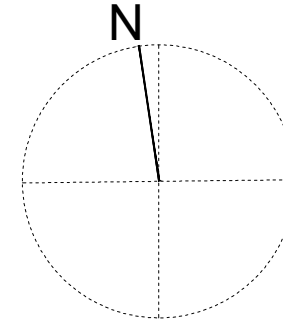
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/011

REVISION
 R 0

For Tender Purpose Only

STATE'S SPORTS COUNCIL (INDOOR STADIUM)



Total Area available- 1112.67 sq.m (approx.)

For Tender Purpose Only





GENERAL NOTES:

- All dimensions are in meters, if otherwise specified.
- Dimensions are to be read and not to be scaled.
- Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
- Solar PV Module conversion efficiency shall not be less than 16.5%.
- Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
- All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
- DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
- The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
- Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
- Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

-  RCC ROOF (GOOD CONDITION)
-  RCC ROOF (BAD CONDITION)
-  METEL SHEET ROOF (GOOD CONDITION)
-  METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR STATE SPORTS COUNCIL, DISTRICT SPORTS COMPLEX (INDOOR STADIUM)

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

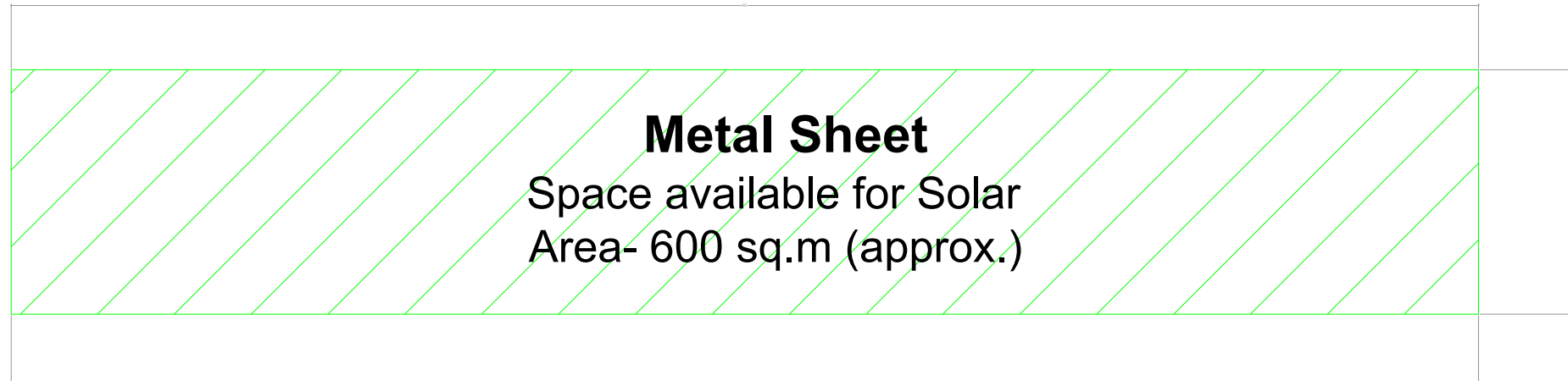
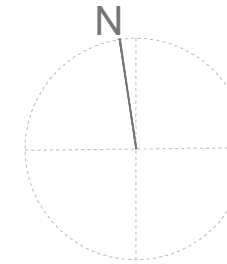
DRAWING NO:

IPE/SSCL/MEG-SH/SOLAR/012

REVISION

R 0

INDOOR TRAINING HALL, POLO







GENERAL NOTES:

- All dimensions are in meters, if otherwise specified.
- Dimensions are to be read and not to be scaled.
- Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
- Solar PV Module conversion efficiency shall not be less than 16.5%.
- Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
- All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
- DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
- The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
- Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
- Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

-  RCC ROOF (GOOD CONDITION)
-  RCC ROOF (BAD CONDITION)
-  METEL SHEET ROOF (GOOD CONDITION)
-  METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

R0	16-05-22	HARD COPY	A.V.
REV.	DATE	DESCRIPTION	APPROV.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR INDOOR TRAINING HALL, POLO, SHILLONG

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

For Tender Purpose Only

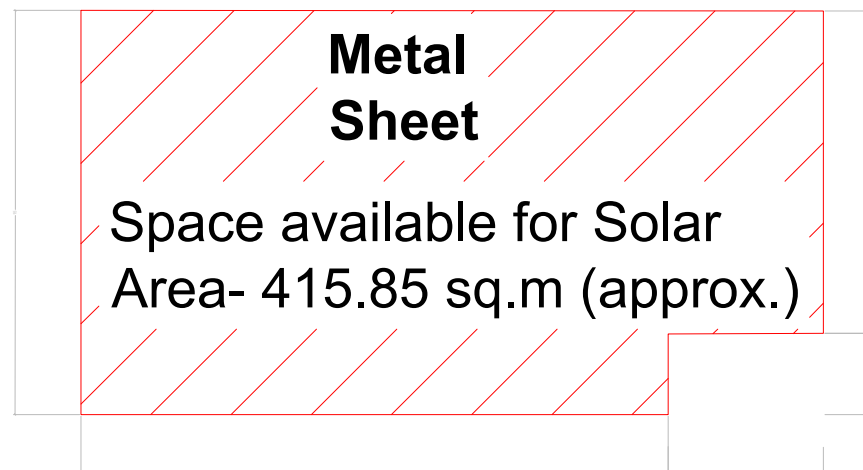
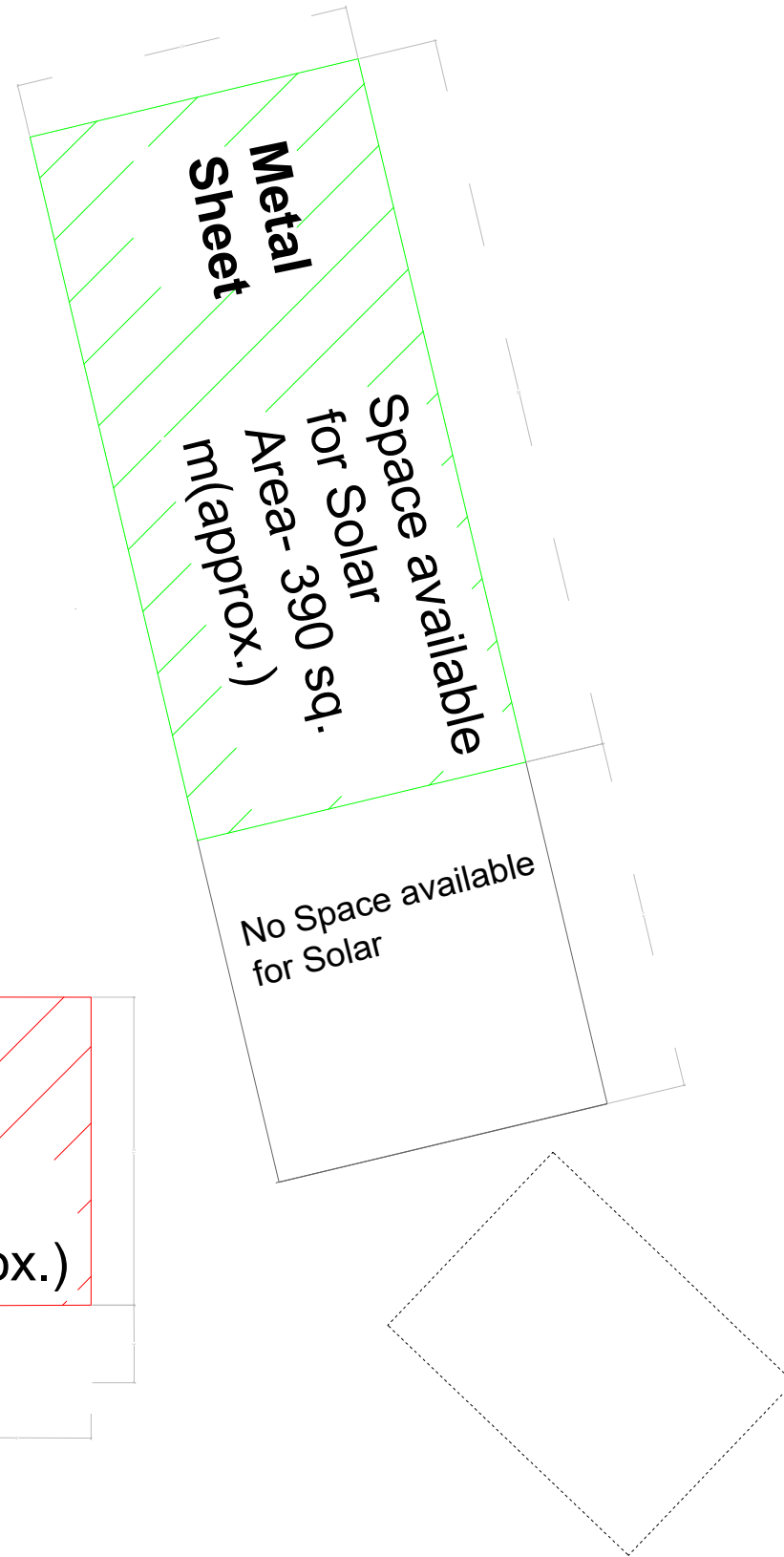
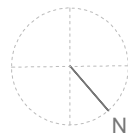
DRAWING NO:

ipe/sscl/meg-sh/solar/013

REVISION

R 0

APEX BANK



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof conform to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR THE MEGHALAYA CO-OPERATIVE APEX BANK LTD, POLICE BAZAR

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHII
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

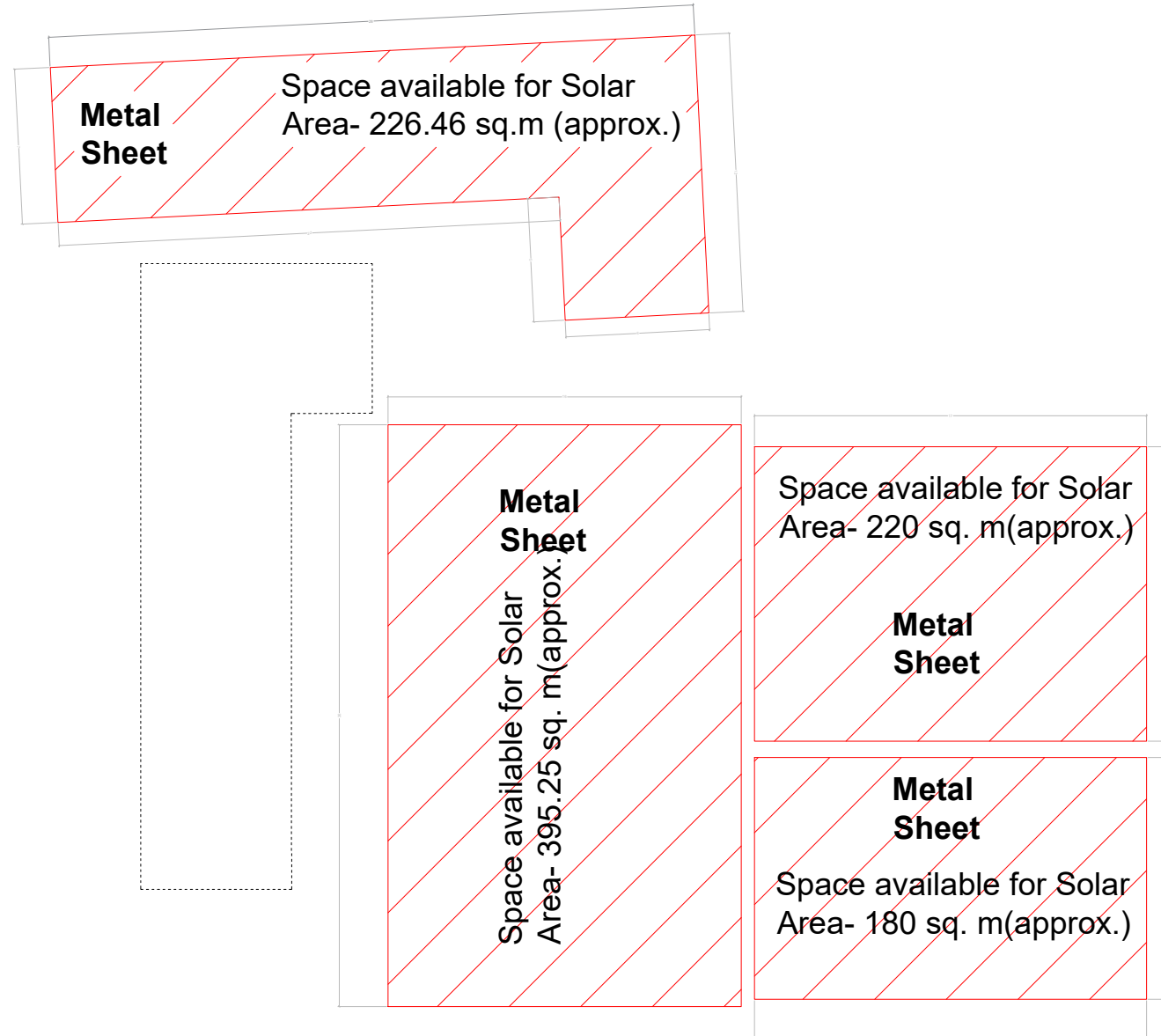
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/014

REVISION
R 0

DIRECTOR OF ACCOUNT (POSTAL) - DAP



Solar panels
already installed



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

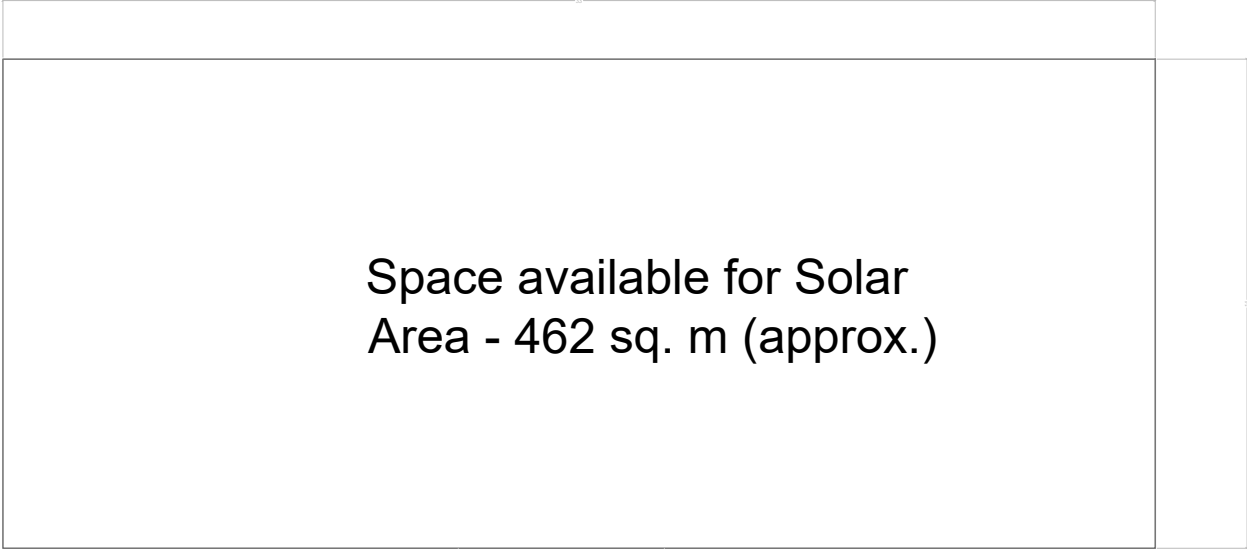
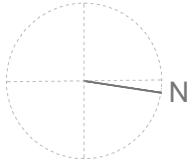
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR DIRECTOR OF ACCOUNT (POSTAL) - DAP

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/015

REVISION
R 0

DISTRICT TRANSPORT OFFICE



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
Consultant
IFE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR DISTRICT TRANSPORT OFFICE

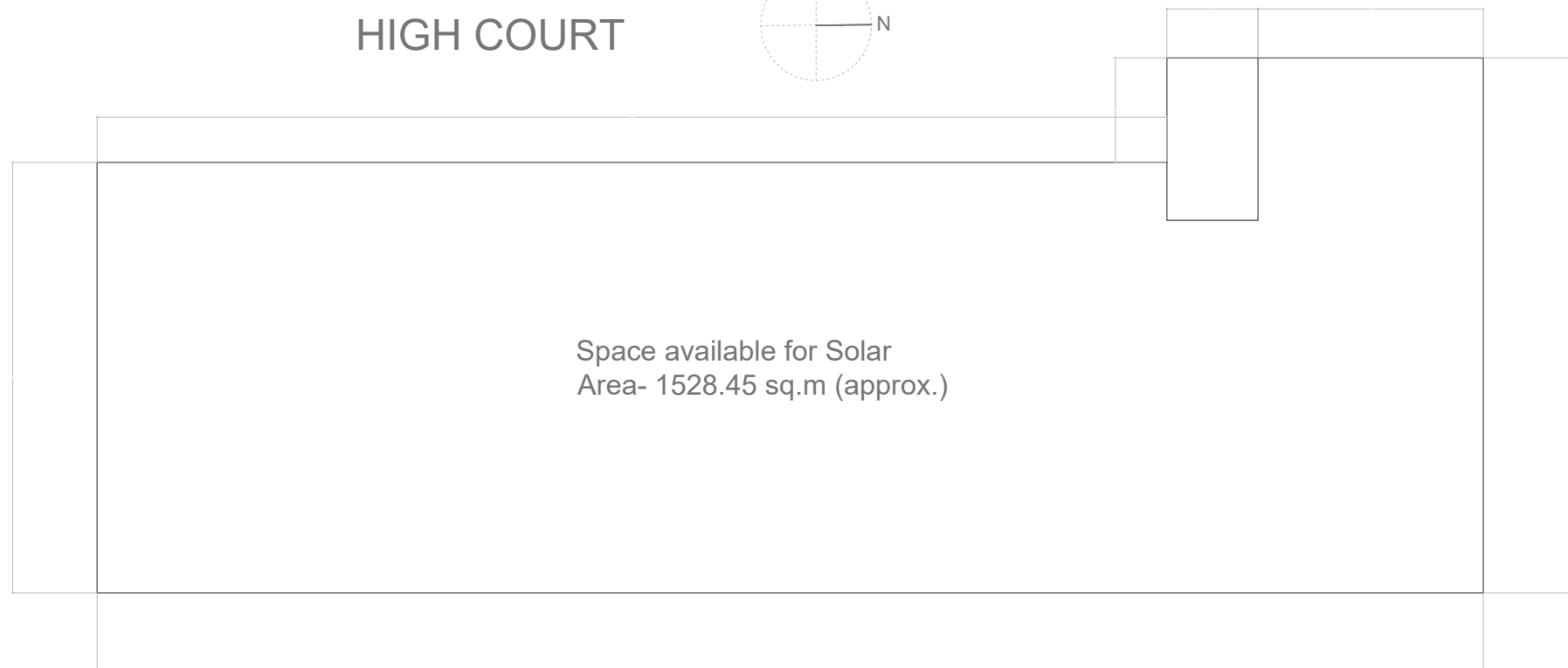
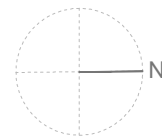
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/016

REVISION
R 0

For Tender Purpose Only

HIGH COURT



Space available for Solar
Area- 1528.45 sq.m (approx.)

For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

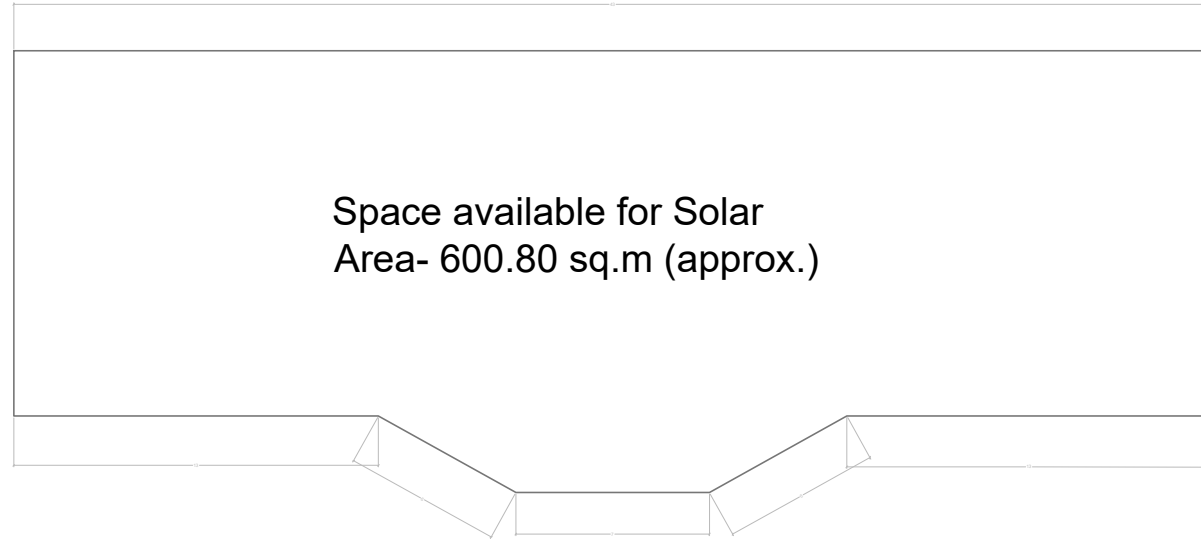
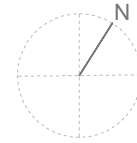
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR HIGH COURT OF MEGHALAYA

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

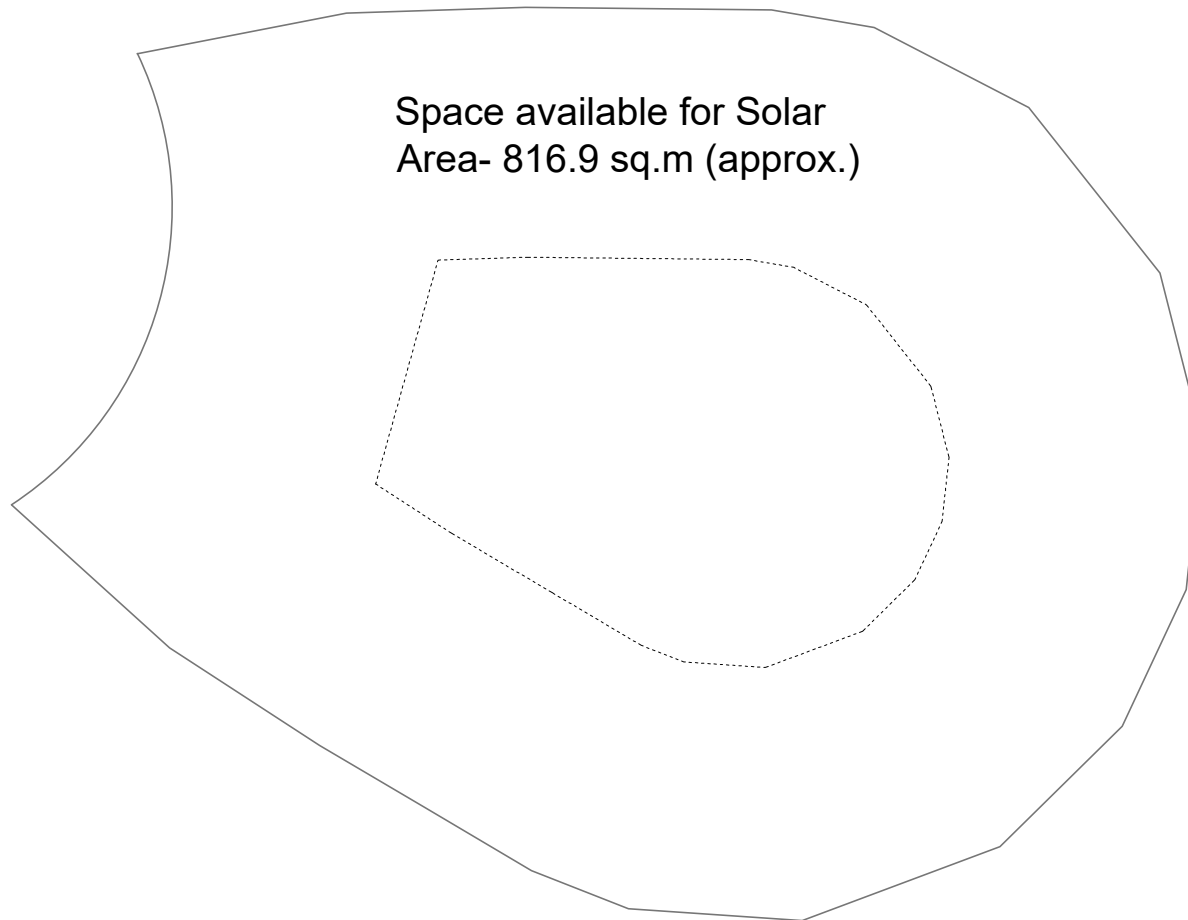
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/017

REVISION
R 0

MEGHALAYA PUBLIC SERVICE COMMISSION



Space available for Solar
Area- 600.80 sq.m (approx.)



Space available for Solar
Area- 816.9 sq.m (approx.)

For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR MEGHALAYA PUBLIC SERVICE COMMISSION OFFICE, HORSE SHOE BUILDING

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

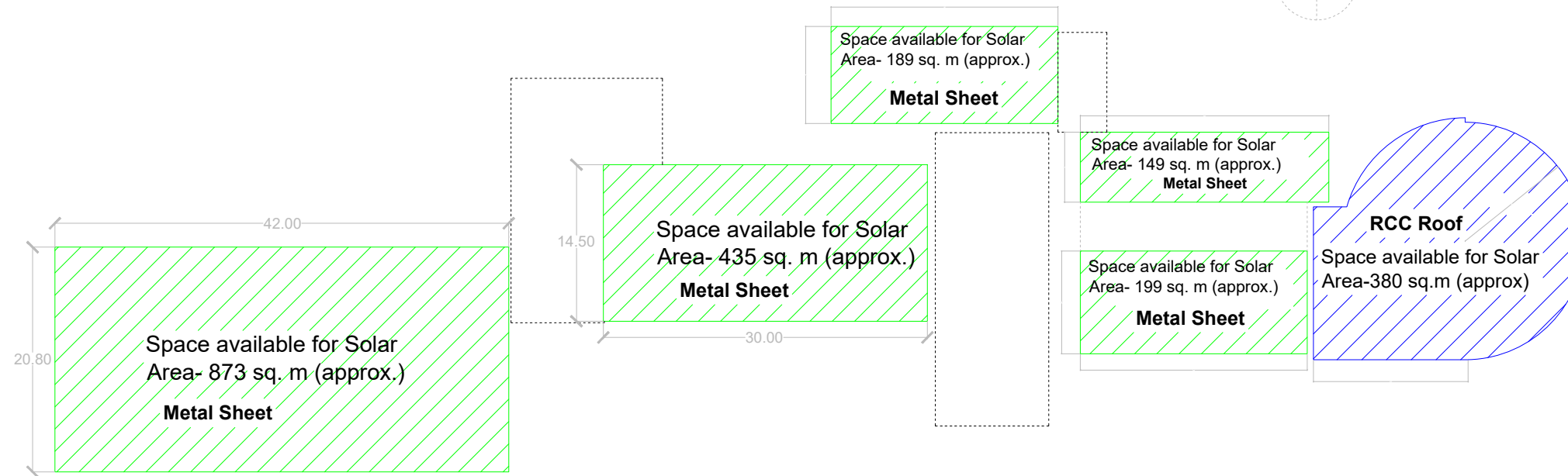
DRAWING NO:

ipe/sscl/meg-sh/solar/018

REVISION

R 0

STATE CENTRAL LIBRARY & WILLIAM SANGMA MUSEUM



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IFE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR STATE CENTRAL LIBRARY, CAPTAIN WILLIAMSON SANGMA STATE MUSEUM

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:

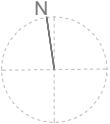
IFE/SSCL/MEG-SH/SOLAR/019

REVISION

R 0

For Tender Purpose Only

SSA FOOTBALL GROUND



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
 Consultant
IPE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR SSA FOOTBALL GROUND

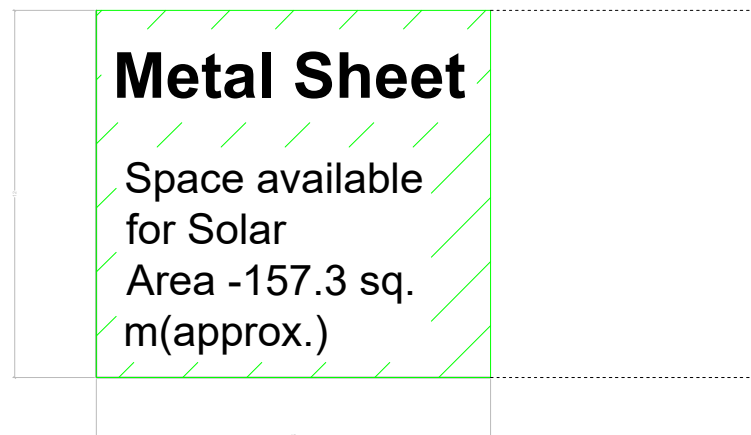
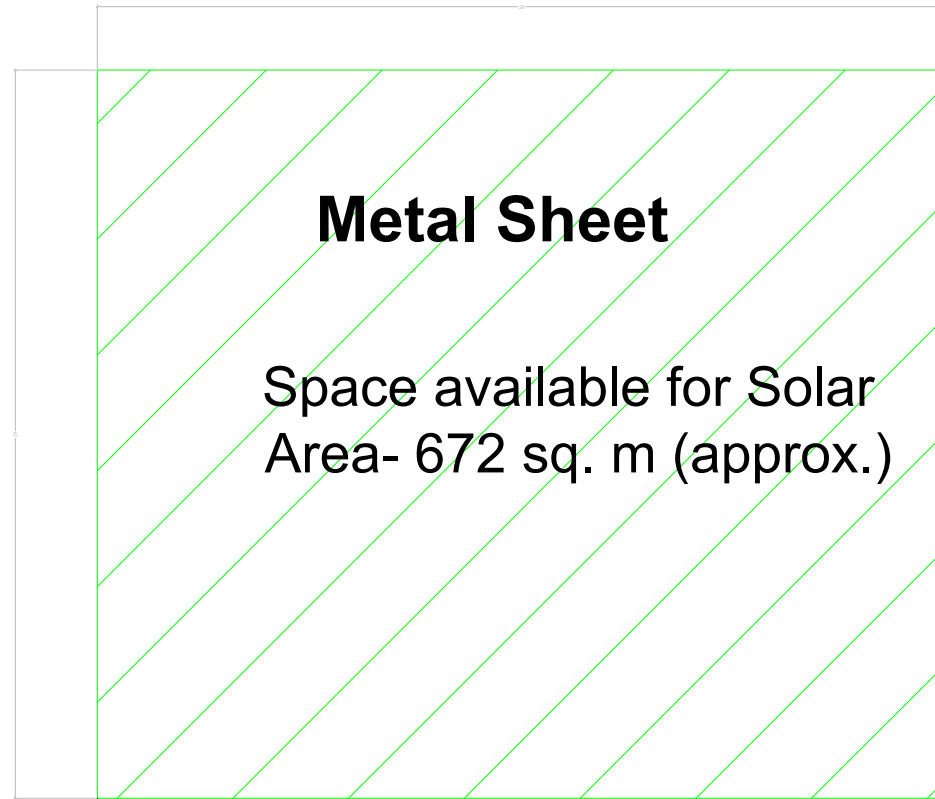
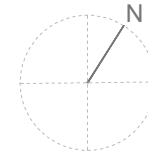
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/020

REVISION
R 0

For Tender Purpose Only

MEGHALAYA URBAN DEVELOPMENT AUTHORITY COMPLEX



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof conform to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR MEGHALAYA URBAN DEVELOPMENT AUTHORITY COMPLEX

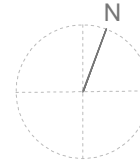
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/021

REVISION
R 0

For Tender Purpose Only

VENDOR'S MARKET, POLO



For Tender Purpose Only

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof conform to IP65 Protection.
8. The Mounting Structures shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

R0	16-05-22	HARD COPY	A.V.

REV.	DATE	DESCRIPTION	APPROV.
------	------	-------------	---------

REVISION INDEX

DRAWING TITLE:

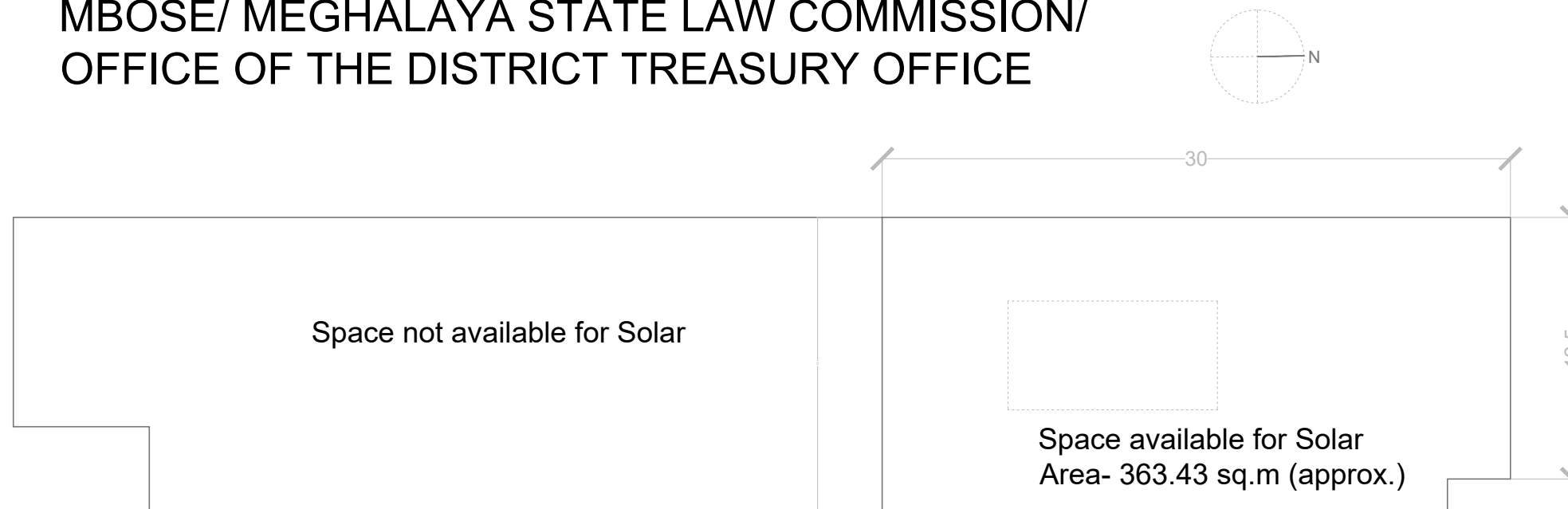
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR VENDORS MARKET

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHII
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/022

REVISION
R 0

MBOSE/ MEGHALAYA STATE LAW COMMISSION/ OFFICE OF THE DISTRICT TREASURY OFFICE



For Tender Purpose Only

GENERAL NOTES:

- All dimensions are in meters, if otherwise specified.
- Dimensions are to be read and not to be scaled.
- Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
- Solar PV Module conversion efficiency shall not be less than 16.5%.
- Power Conditioning Unit (PCU) of 350-800 VDC input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
- All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
- DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
- The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
- Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
- Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR REGIONAL OFFICE OF MEGHALAYA BOARD OF SECONDARY EDUCATION (MBOSE) MEGHALAYA STATE LAW COMMISSION OFFICE OF THE DISTRICT TREASURY OFFICER

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHIIH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

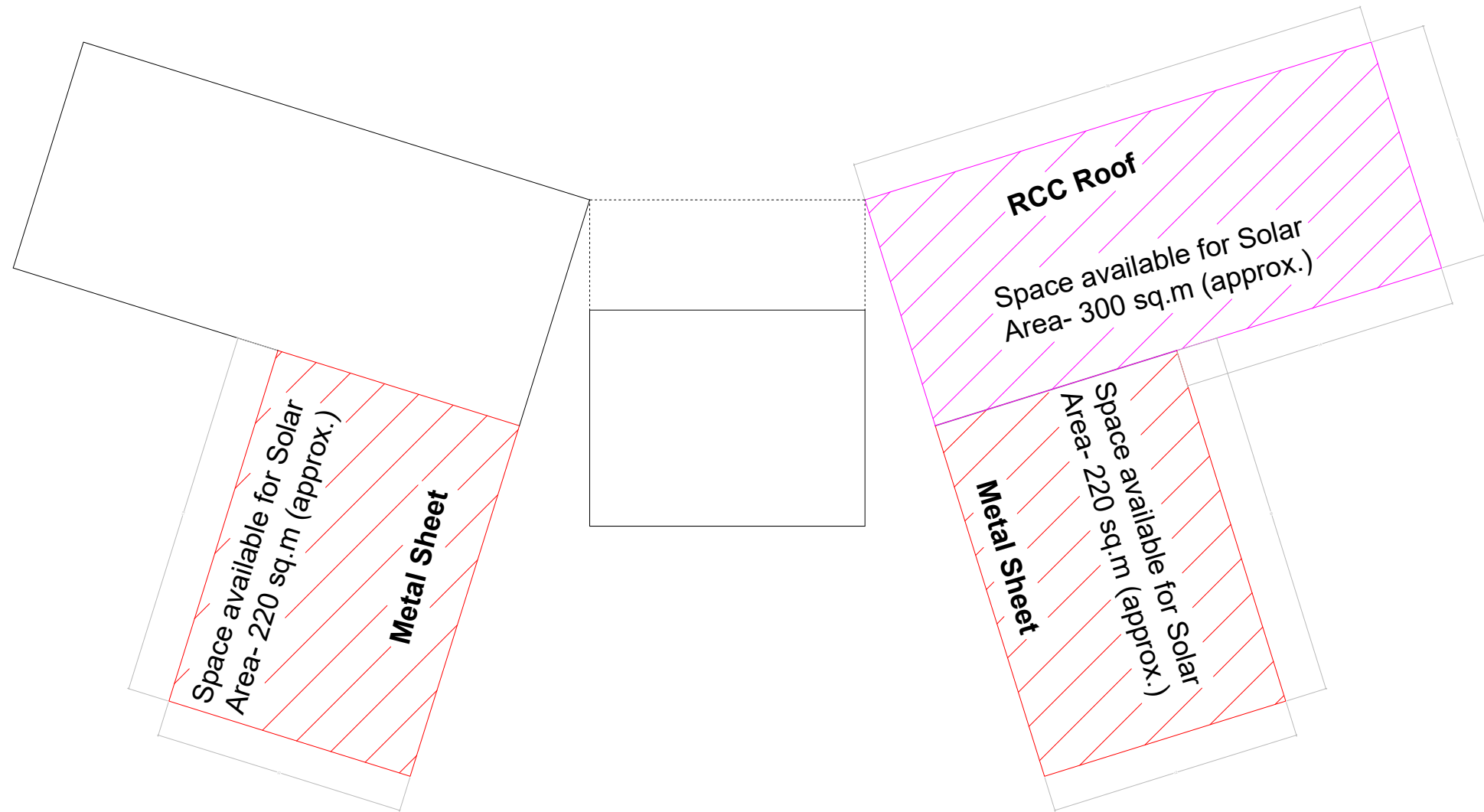
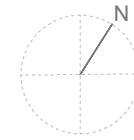
DRAWING NO:

IPE/SSCL/MEG-SH/SOLAR/023

REVISION

R 0

DIRECTOR GENERAL OF POLICE



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

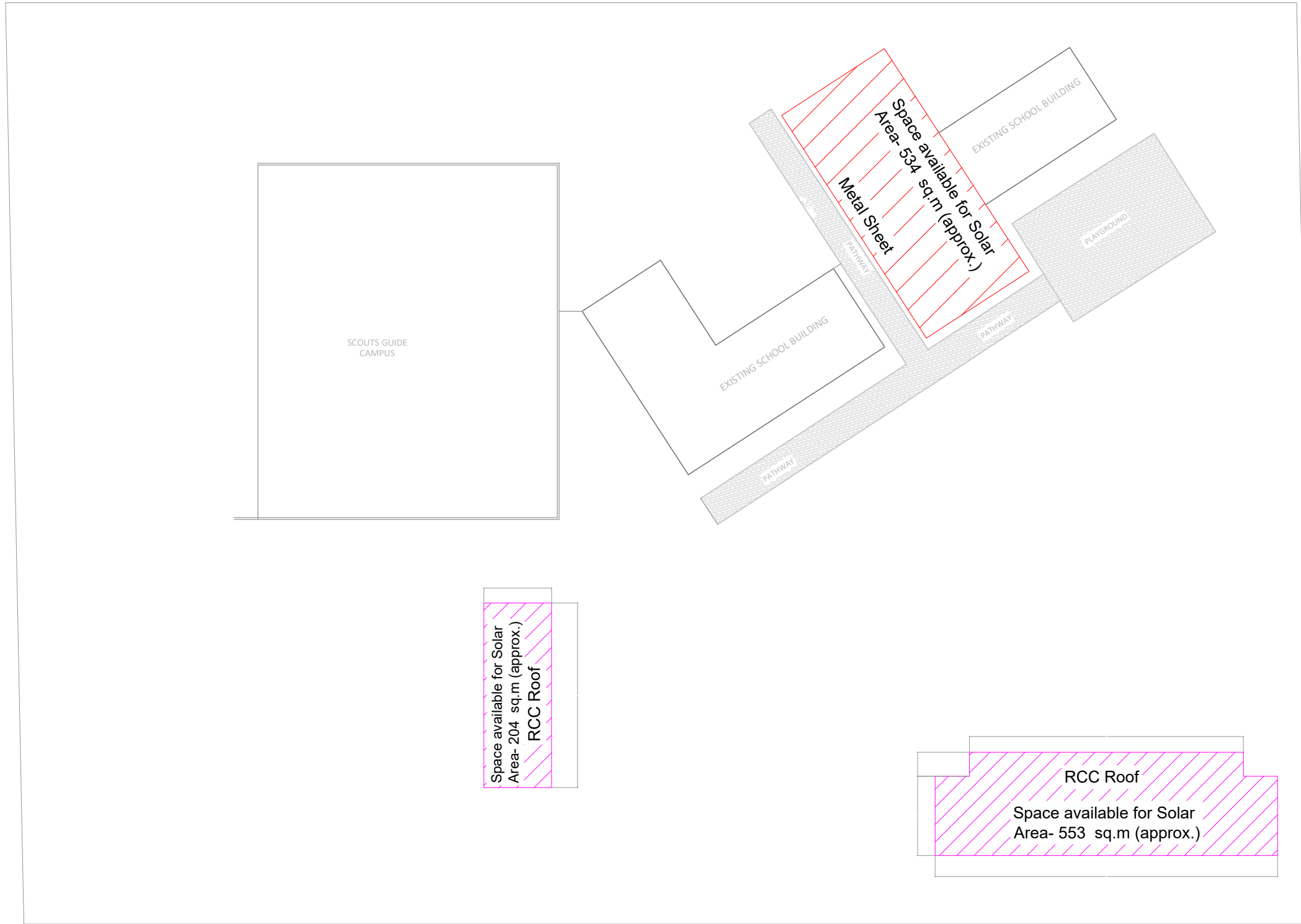
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR OFFICE OF THE DIRECTOR GENERAL OF POLICE

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/024

REVISION
R 0

For Tender Purpose Only



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
 Consultant
IPE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR PINE MOUNT SCHOOL

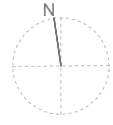
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

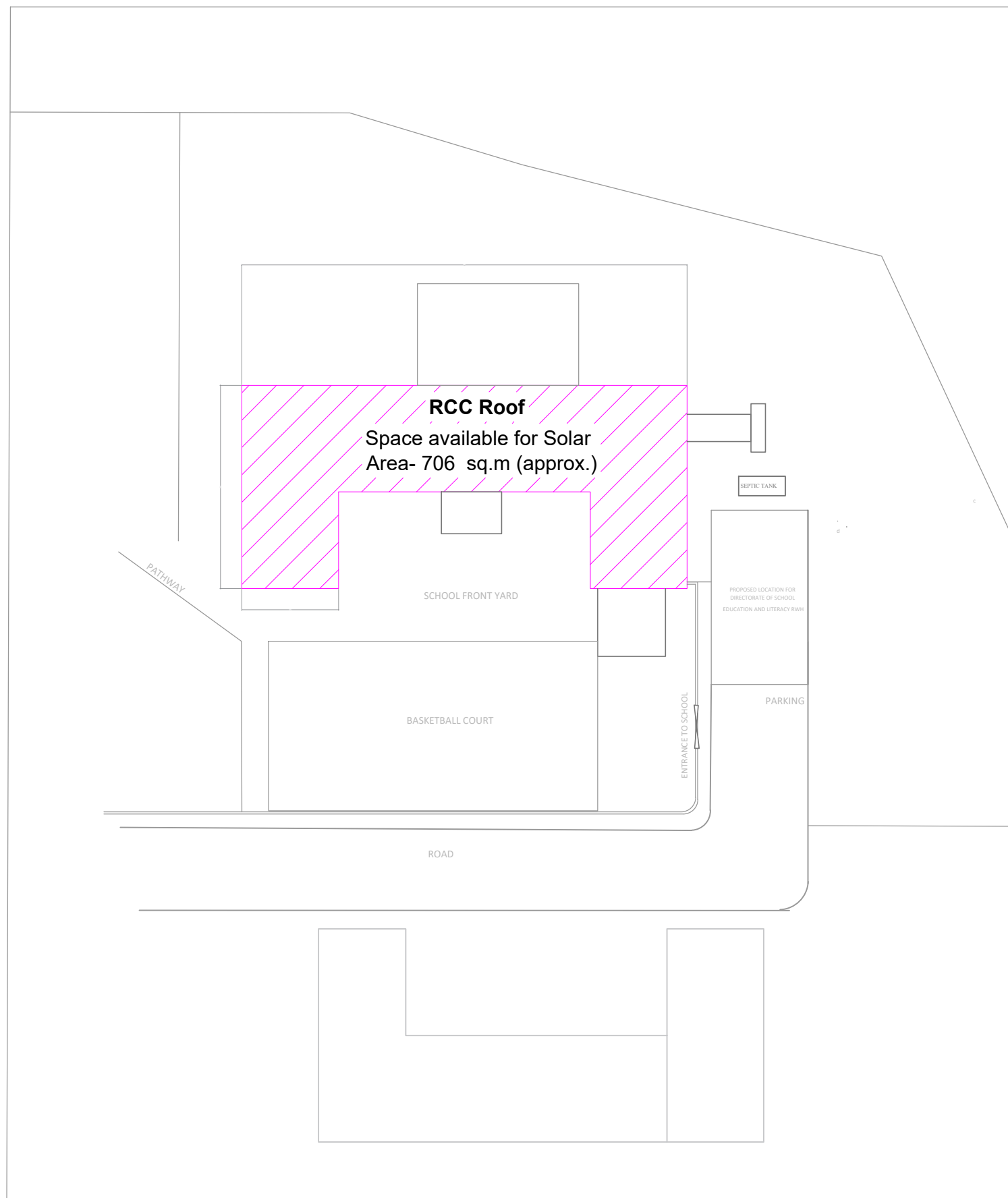
DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/025

REVISION
 R 0

For Tender Purpose Only





PINE MOUNT SCHOOL





- GENERAL NOTES:**
1. All dimensions are in meters, if otherwise specified.
 2. Dimensions are to be read and not to be scaled.
 3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 4. Solar PV Module conversion efficiency shall not be less than 16.5%.
 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
-  RCC ROOF (GOOD CONDITION)
 -  RCC ROOF (BAD CONDITION)
 -  METEL SHEET ROOF (GOOD CONDITION)
 -  METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
 Consultant
IPE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR SHILLONG PUBLIC SCHOOL

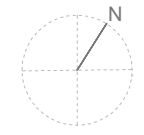
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

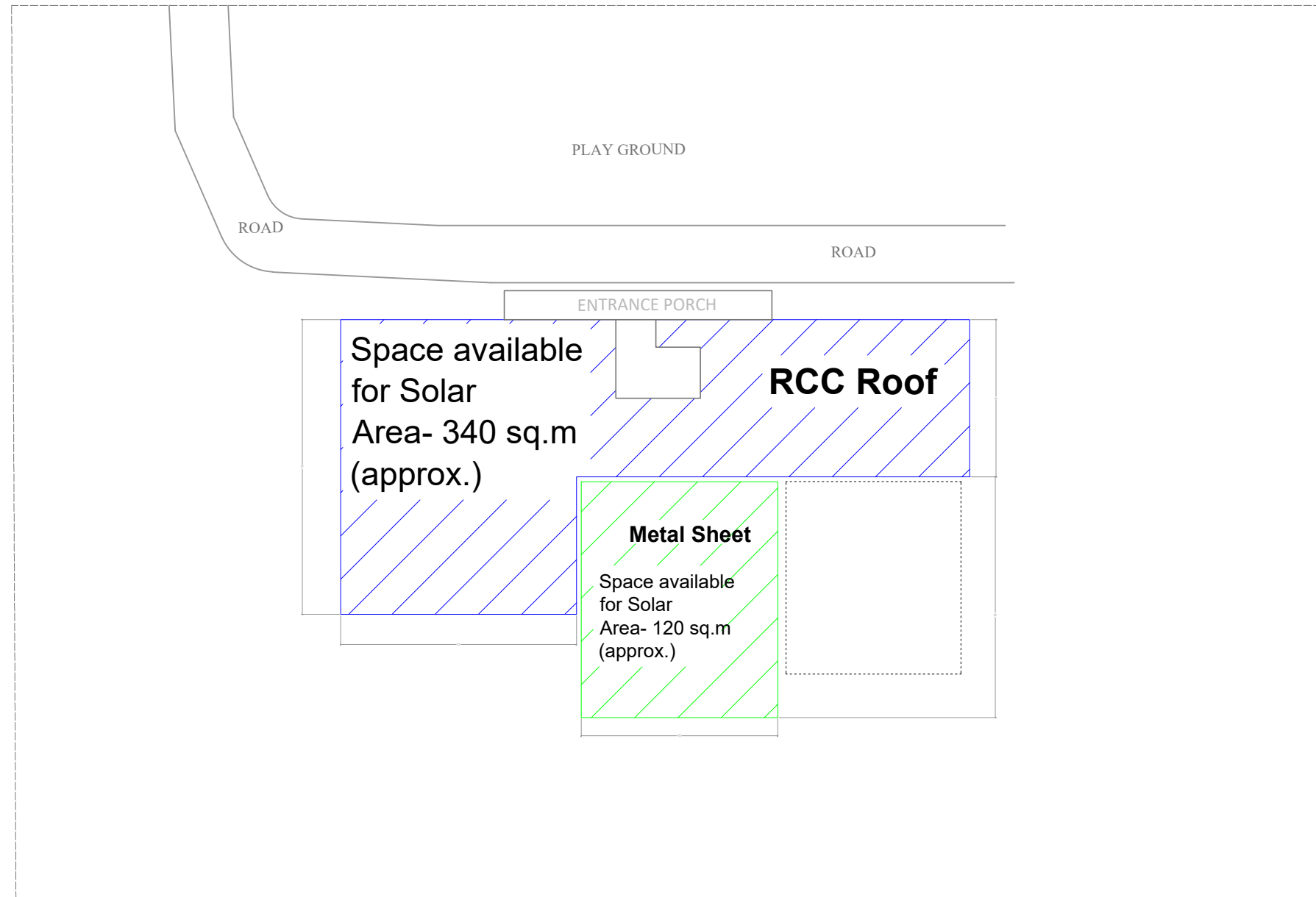
DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/026

REVISION
 R 0

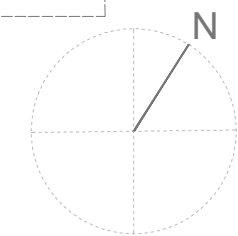
For Tender Purpose Only

SHILLONG PUBLIC SCHOOL





DIRECTORATE OF HIGHER TECHNICAL EDUCATION



For Tender Purpose Only

- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
 Consultant
IPE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

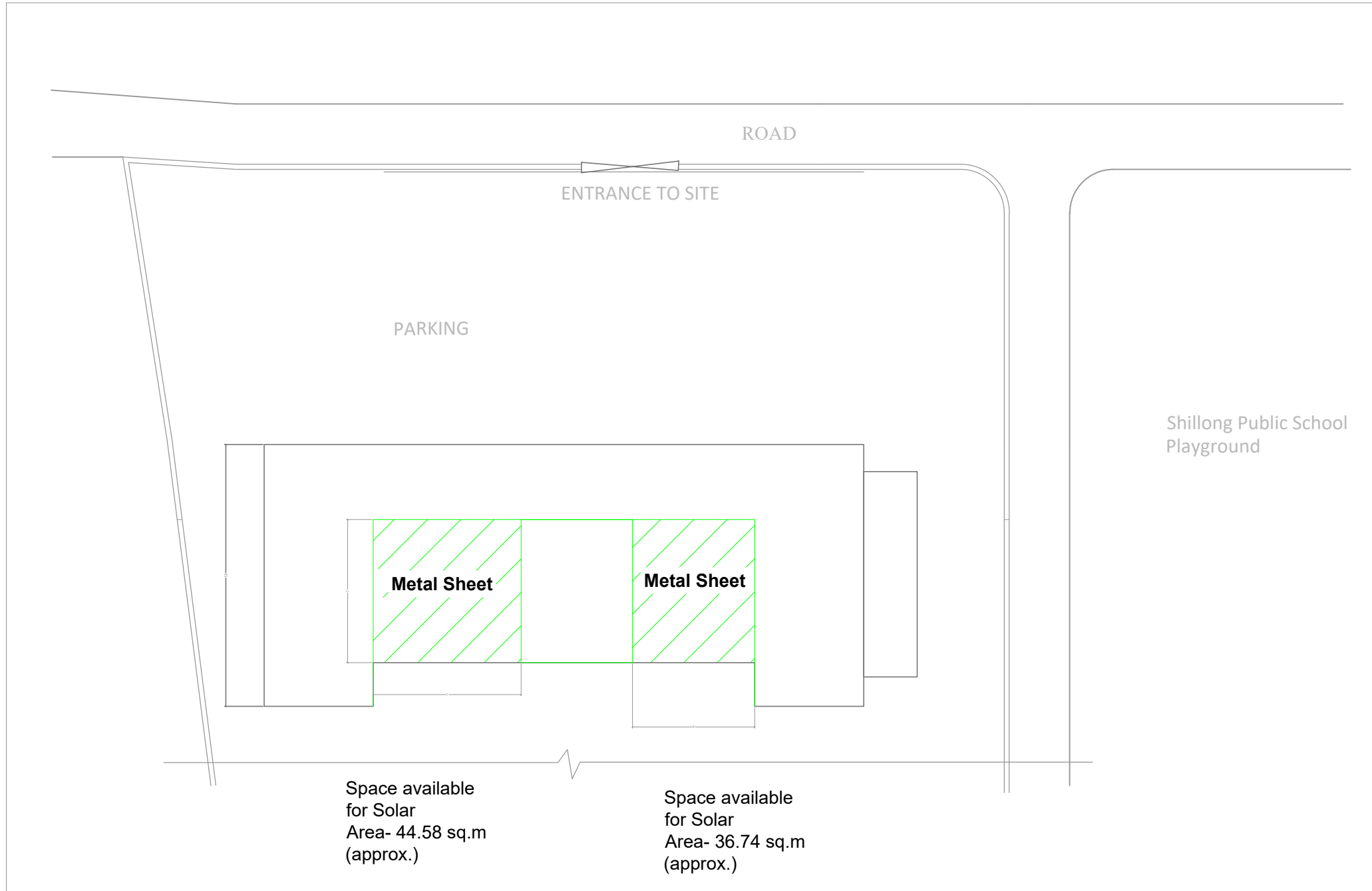
REVISION INDEX

DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR DIRECTORATE OF HIGHER TECHNICAL EDUCATION

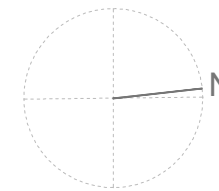
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/027

REVISION
 R 0



MBOSE GUEST HOUSE



For Tender Purpose Only

- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
Consultant
IPE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

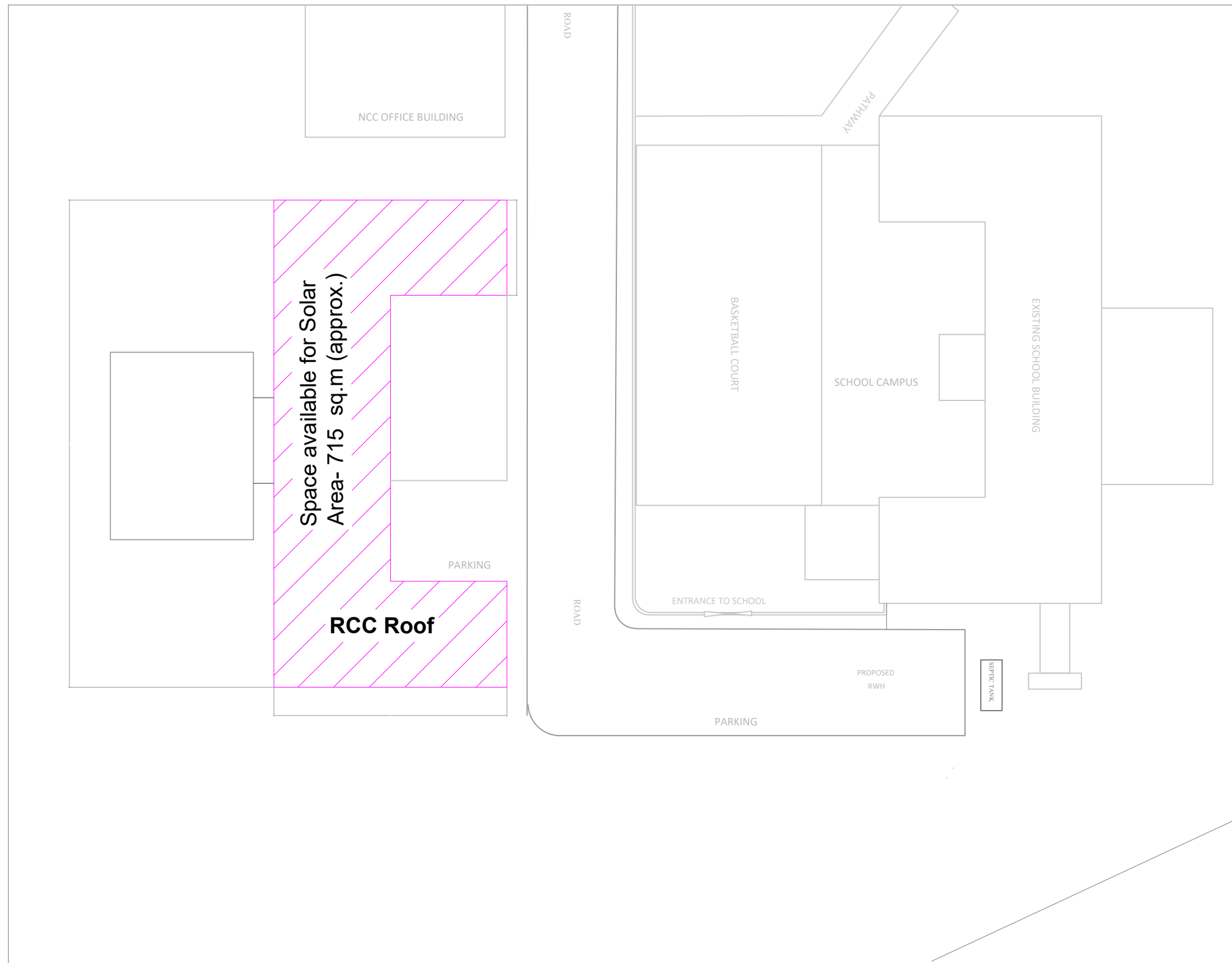
REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR MBOSE GUEST HOUSE

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/028

REVISION
R 0



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
 Consultant
IFE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR DIRECTORATE OF SCHOOL EDUCATION AND LITERACY

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/029

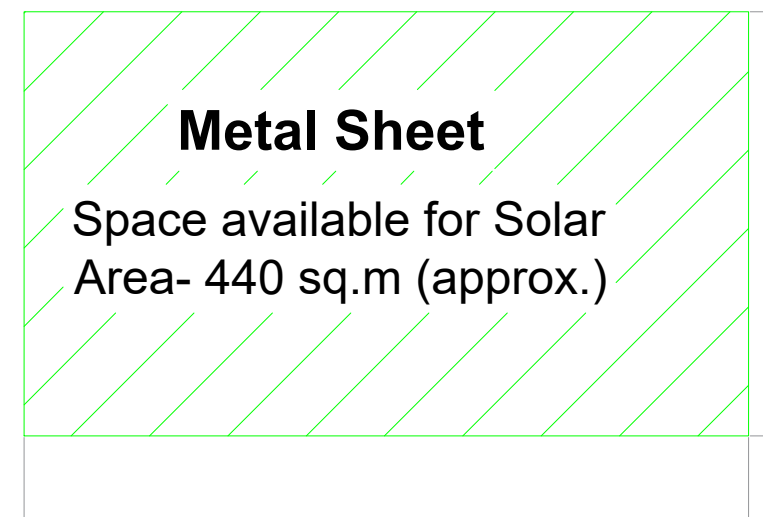
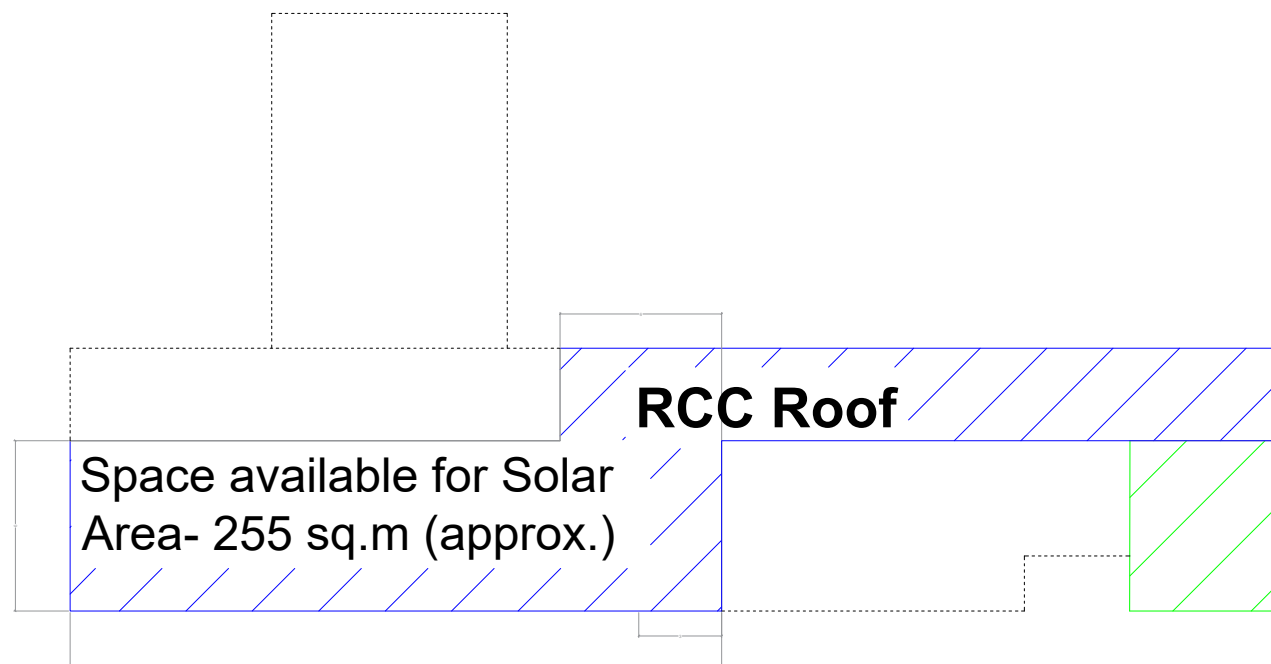
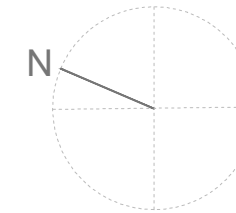
REVISION
 R 0

DIRECTORATE OF SCHOOL EDUCATION AND LITERACY



For Tender Purpose Only

Government Girl's Higher Secondary School



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR GOVERNMENT GIRL'S HIGHER SECONDARY SCHOOL

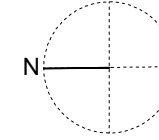
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/030

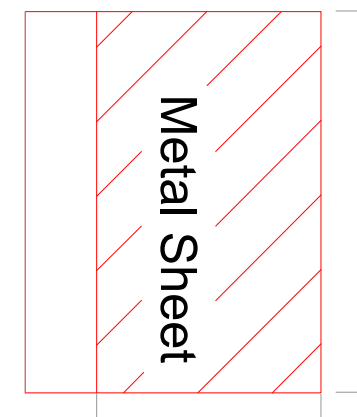
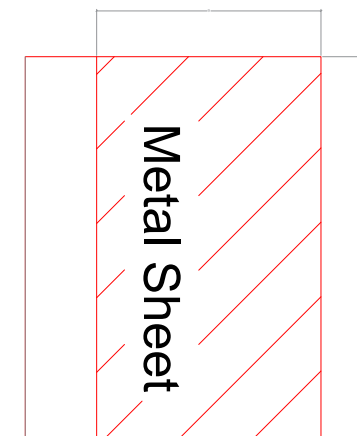
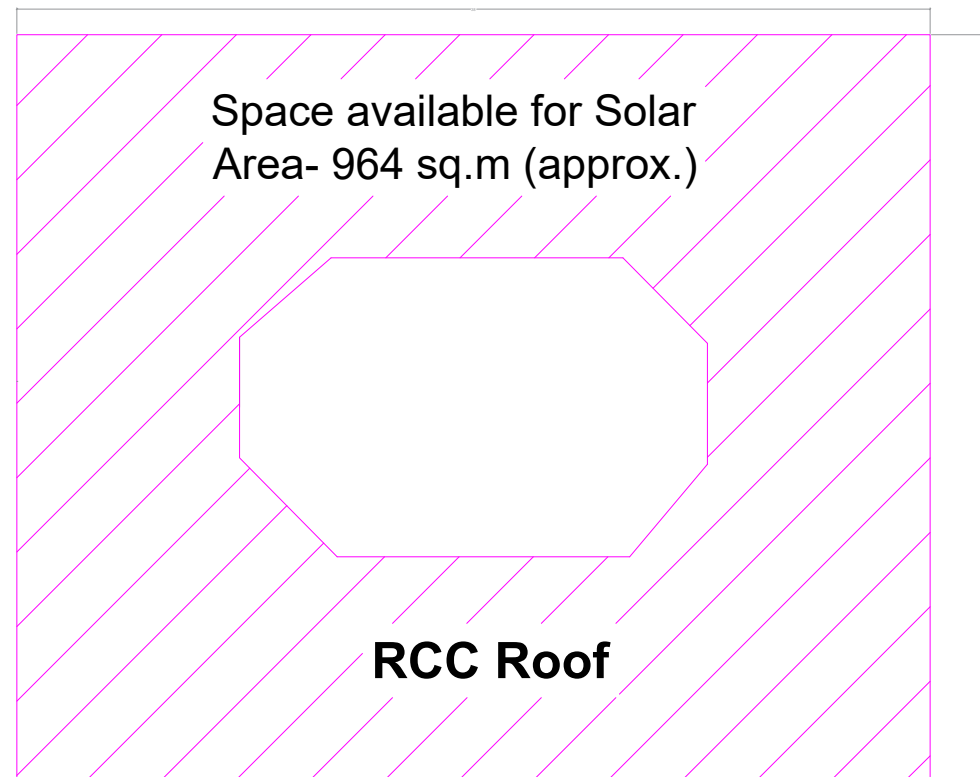
REVISION
R 0

For Tender Purpose Only

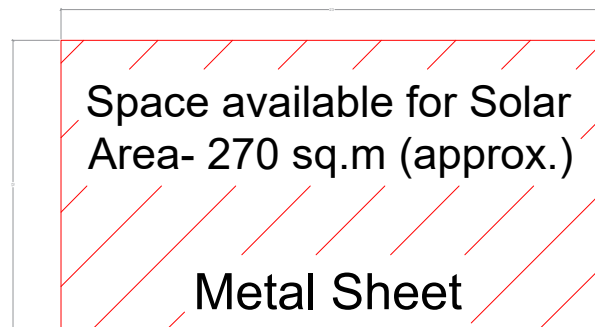
Government Boy's Higher Secondary School



Space available for Solar Area- 148 sq.m (approx.)



Space available for Solar Area- 148 sq.m (approx.)



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED
Consultant
IPE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR GOVERNMENT BOY'S HIGHER SECONDARY SCHOOL

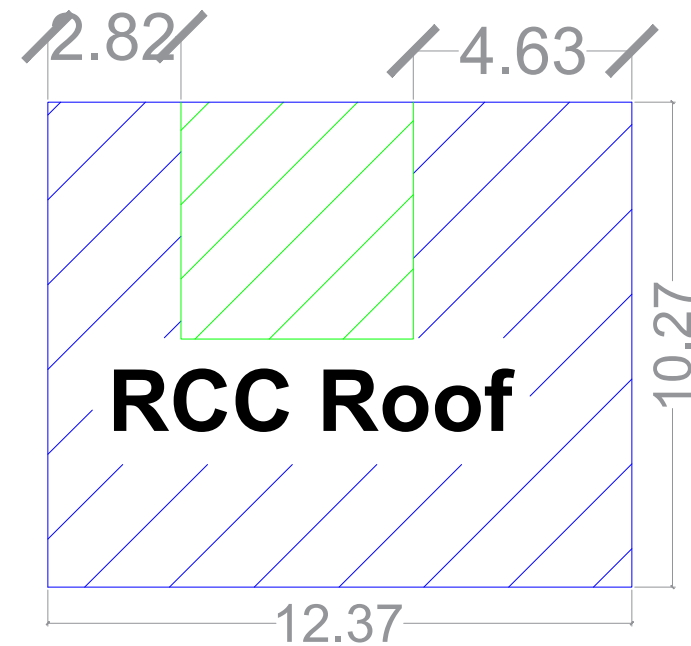
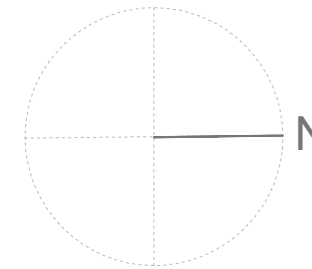
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/031

REVISION
R 0

For Tender Purpose Only

MEGHALAYA STATE WAREHOUSING CORPORATION



Space available for Solar
Area- 88.21 sq. m(approx.)

GENERAL NOTES:

- All dimensions are in meters, if otherwise specified.
- Dimensions are to be read and not to be scaled.
- Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
- Solar PV Module conversion efficiency shall not be less than 16.5%.
- Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
- All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
- DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
- The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
- Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
- Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING
SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO -
VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP
SYSTEM FOR MEGHALAYA STATE
WAREHOUSING CORPORATION

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:

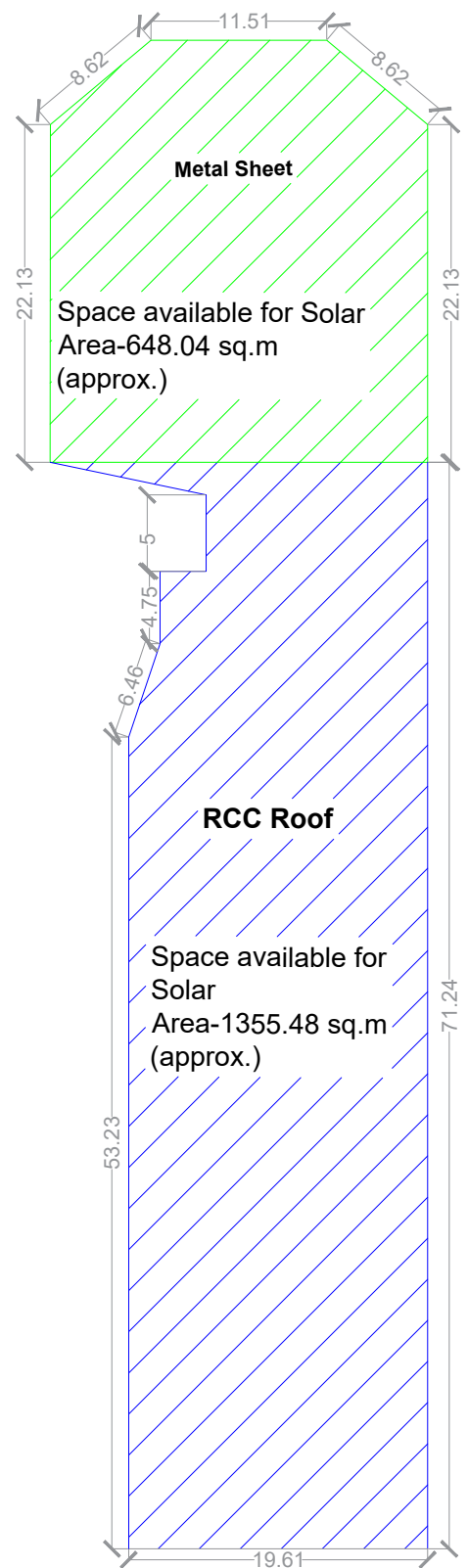
IPE/SSCL/MEG-SH/SOLAR/032

REVISION

R 0

For Tender Purpose Only

ANNEX BUILDING OF HIGH COURT



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR ANNEX BUILDING OF HIGH COURT

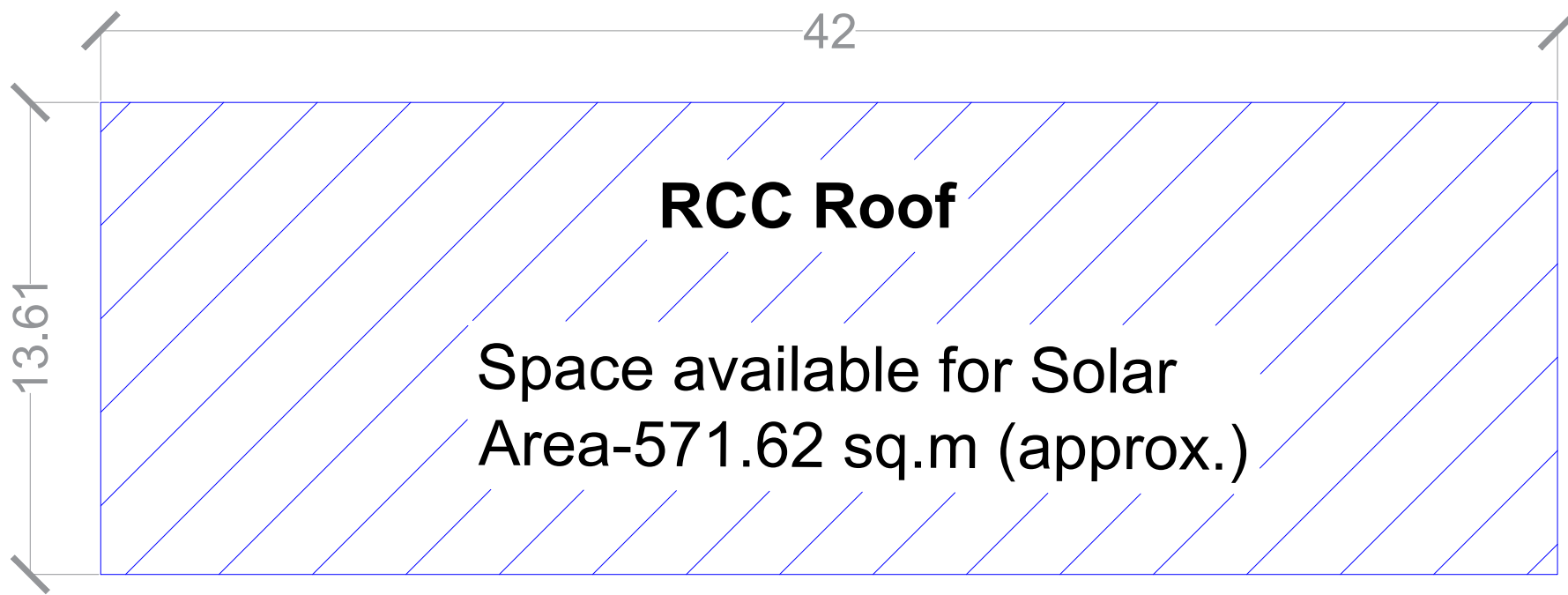
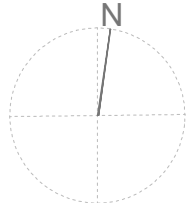
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/033

REVISION
R 0

For Tender Purpose Only

MEGHALAYA TRANSPORT COMMISSIONER OFFICE



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IPE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR MEGHALAYA TRANSPORT COMMISSIONER OFFICE

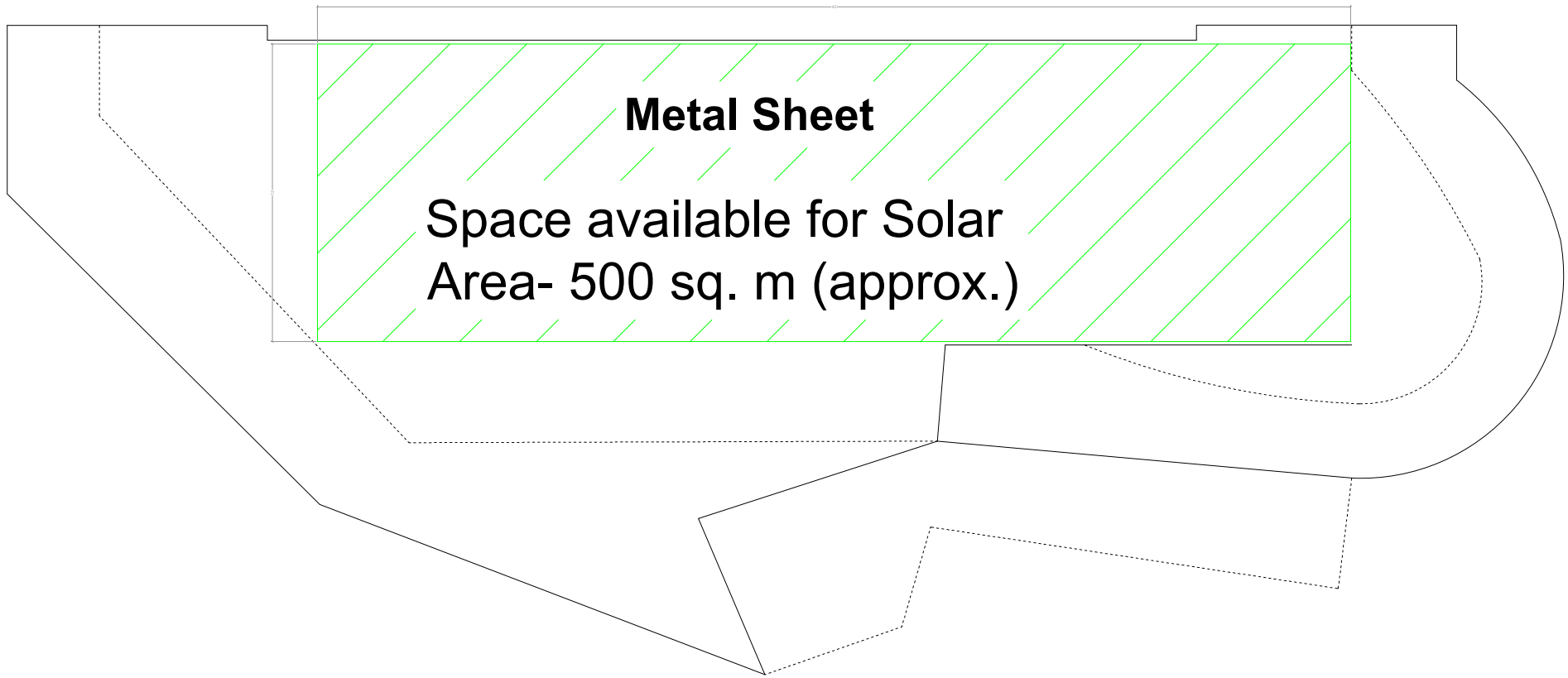
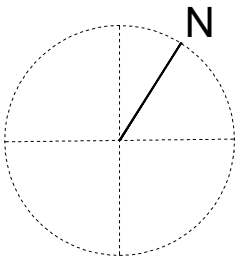
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/034

REVISION
R 0

For Tender Purpose Only

MULTILEVEL CAR PARKING AT MOTPHRAN



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof conform to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IEC / ISE Rules.

LEGENDS:
 PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IPE GLOBAL LIMITED

PROJECT:
 GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

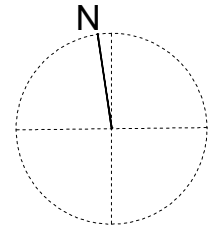
DRAWING TITLE:
 PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR PROPOSED NEW MULTI-LEVEL CAR PARKING AT MOTPHRAN

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHII
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
 IPE/SSCL/MEG-SH/SOLAR/035

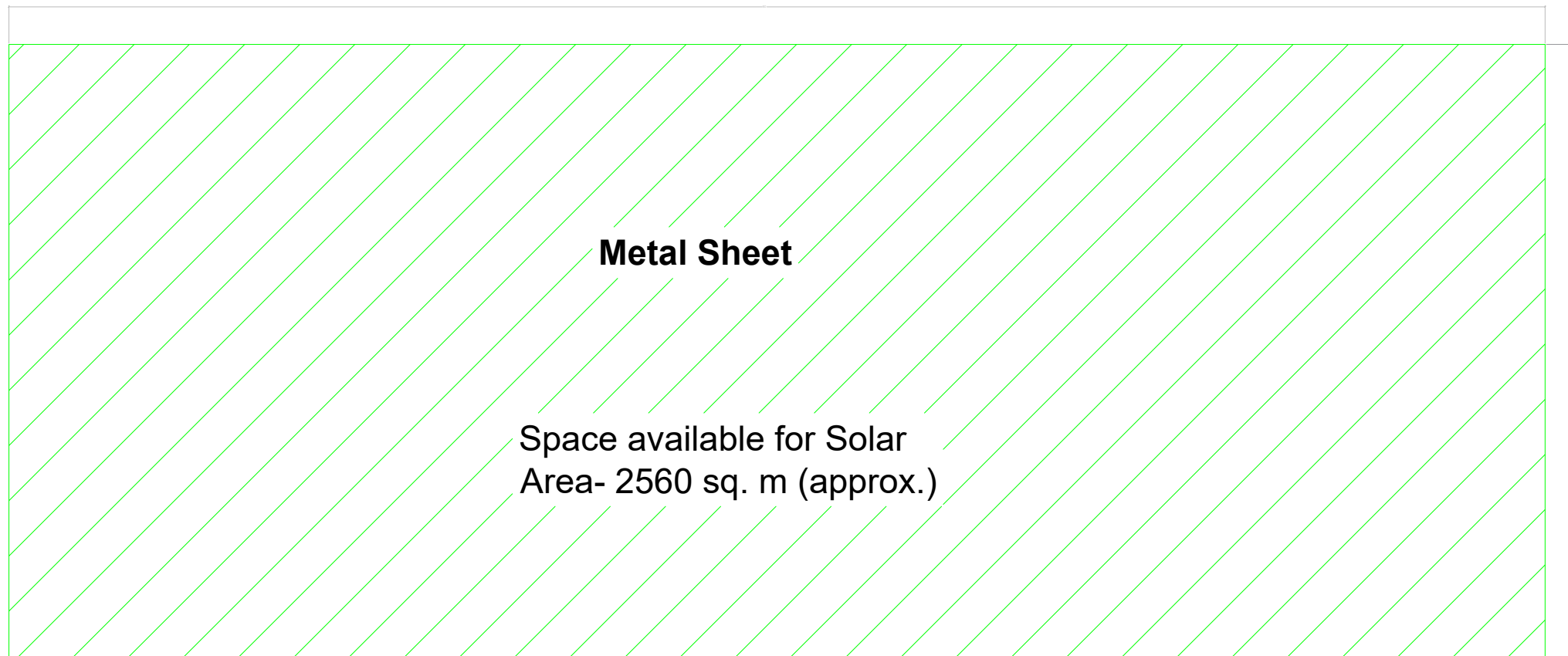
REVISION
 R 0

For Tender Purpose Only



MULTILEVEL PARKING BUILDING AT KHLIEH IEW

Road



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

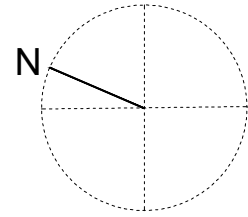
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR EXISTING MULTILEVEL PARKING BUILDING AT KHLIEH IEW

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

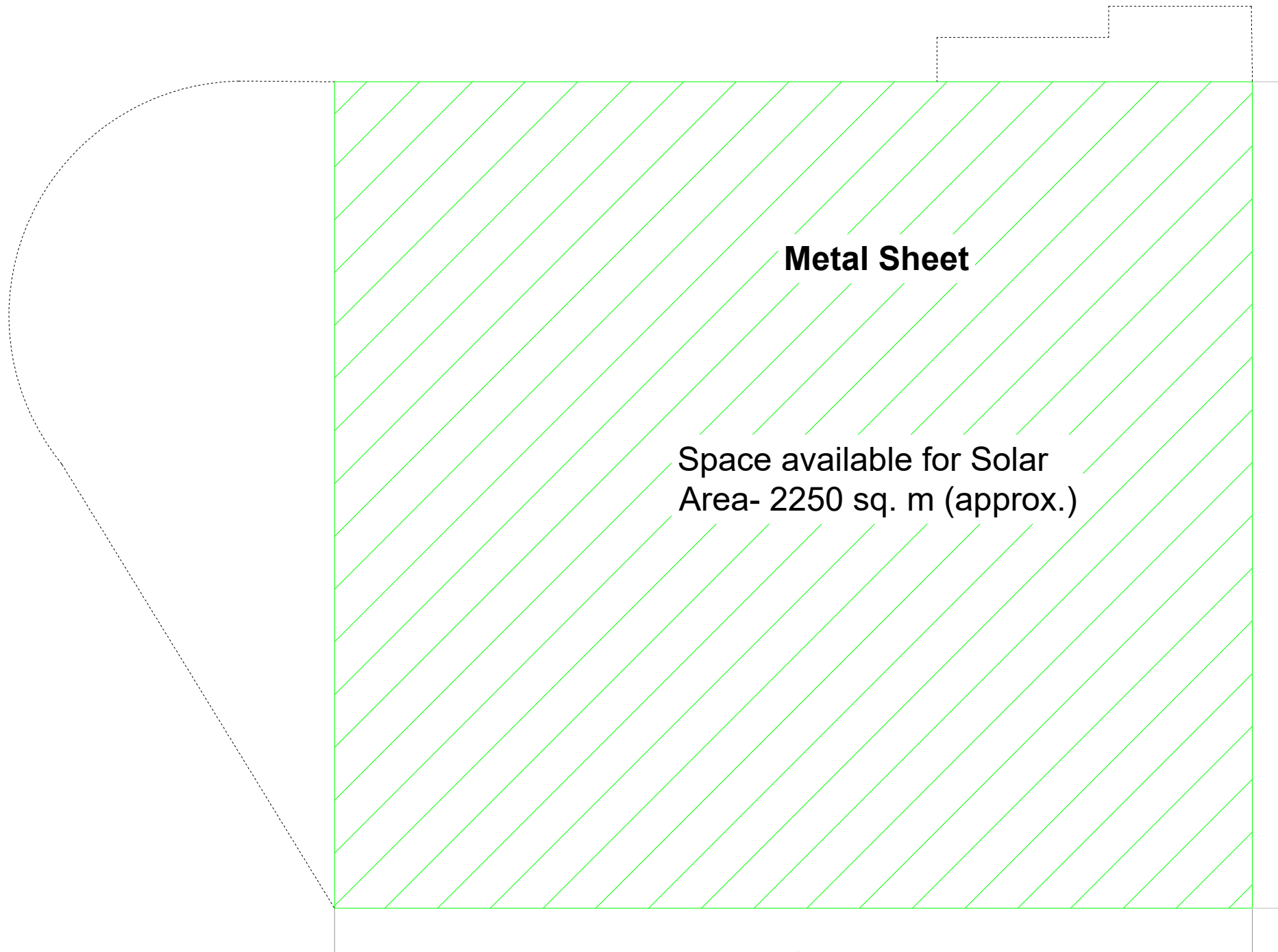
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/036

REVISION
R 0

For Tender Purpose Only



MULTILEVEL PARKING BUILDING AT MOWLONGHAT



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IPE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR EXISTING MULTILEVEL PARKING BUILDING AT MOWLONGHAT

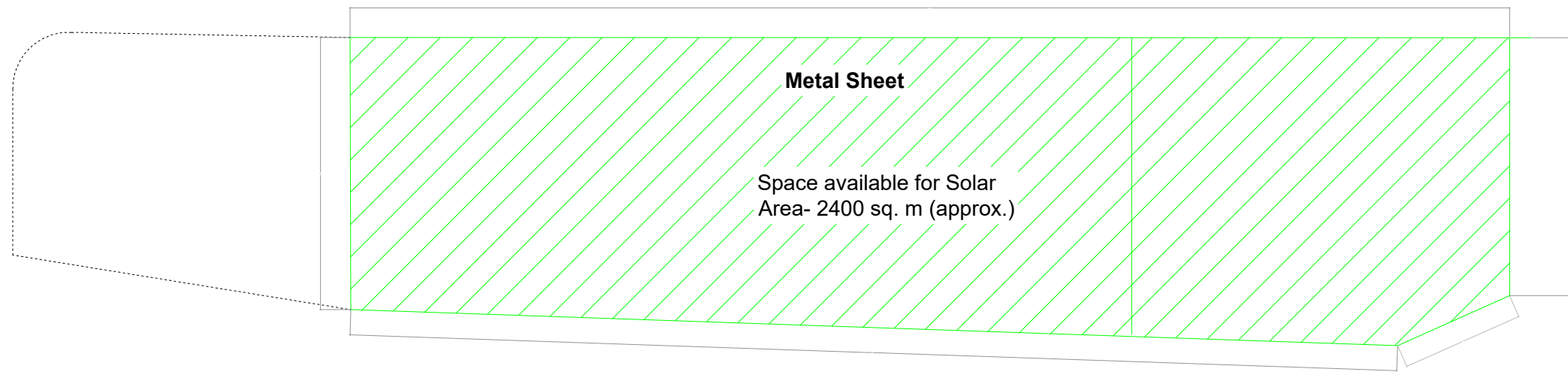
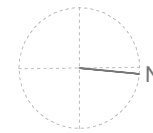
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/037

REVISION
R 0

For Tender Purpose Only

MULTILEVEL PARKING BUILDING
OPPOSITE ANJALEE GALLERIA



GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg. C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR EXISTING MULTILEVEL PARKING BUILDING OPPOSITE TO ANJALEE GALLERIA

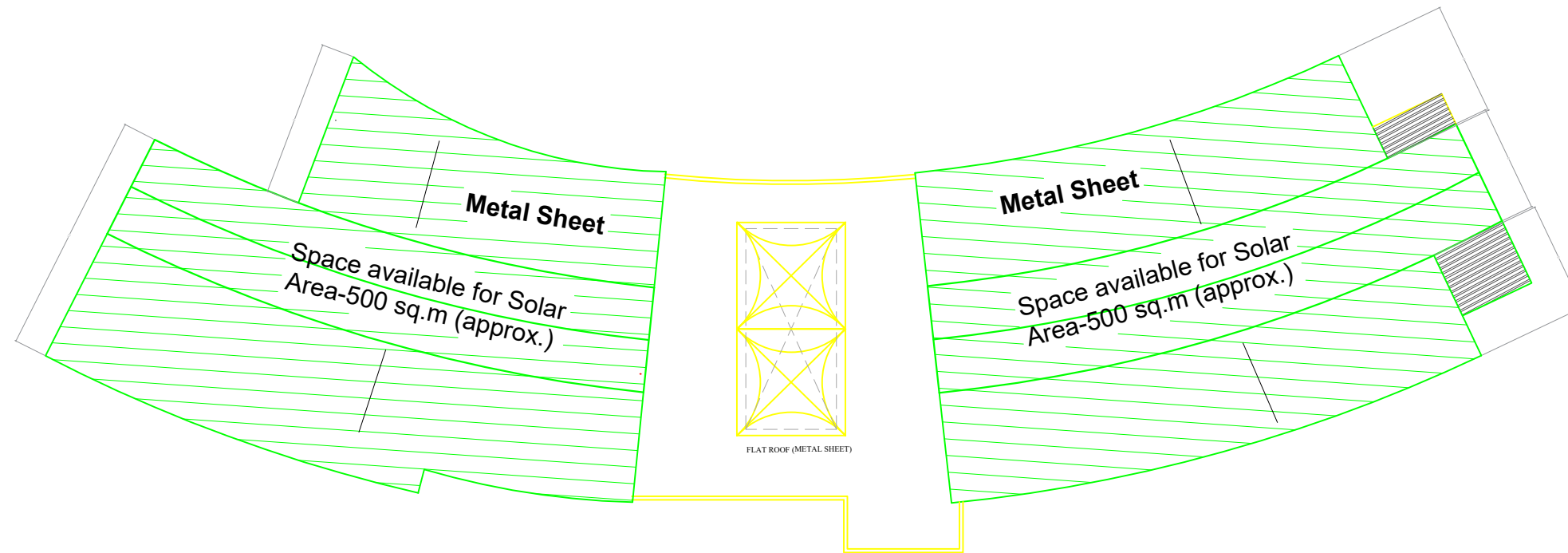
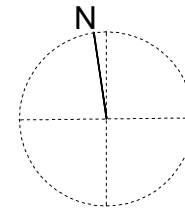
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/038

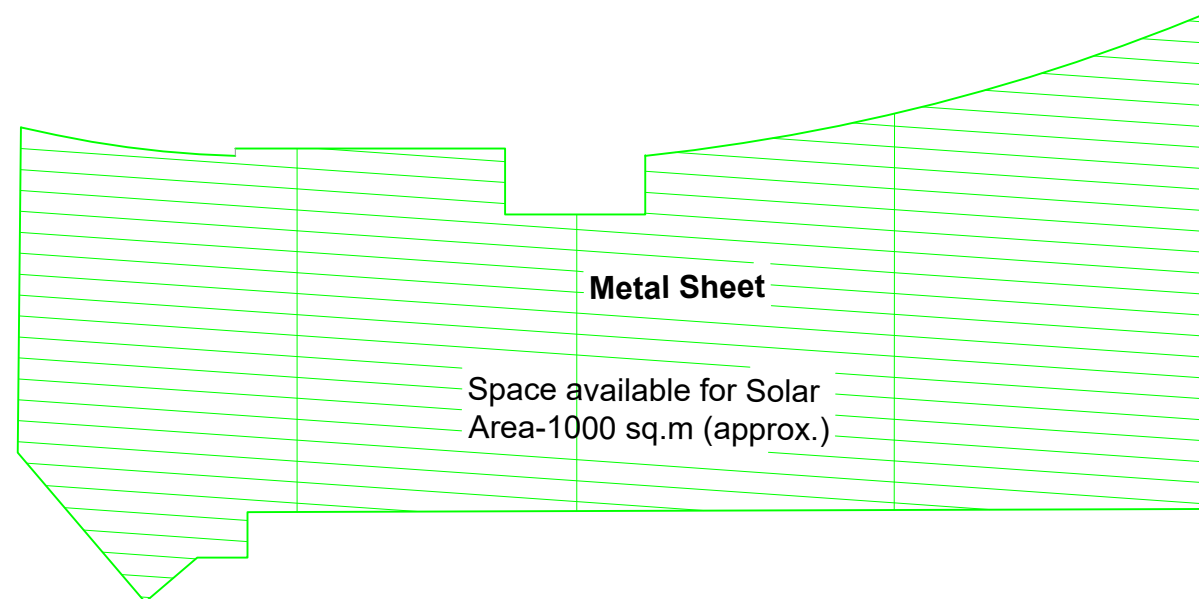
REVISION
R 0

For Tender Purpose Only

COMMERCIAL COMPLEX AT POLO



SIXTH FLOOR



FIFTH FLOOR

GENERAL NOTES:

1. All dimensions are in meters, if otherwise specified.
2. Dimensions are to be read and not to be scaled.
3. Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
4. Solar PV Module conversion efficiency shall not be less than 16.5%.
5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
6. All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
7. DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
8. The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
9. Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
10. Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:

PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

Notes:

- RCC ROOF (GOOD CONDITION)
- RCC ROOF (BAD CONDITION)
- METEL SHEET ROOF (GOOD CONDITION)
- METEL SHEET ROOF (BAD CONDITION)

Submitted by

SHILLONG SMART CITY LIMITED

Consultant

IPE GLOBAL LIMITED

PROJECT:

GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:

PROPOSED LOCATION FOR SOLAR ROOFTOP SYSTEM FOR PROPOSED COMMERCIAL COMPLEX AT POLO

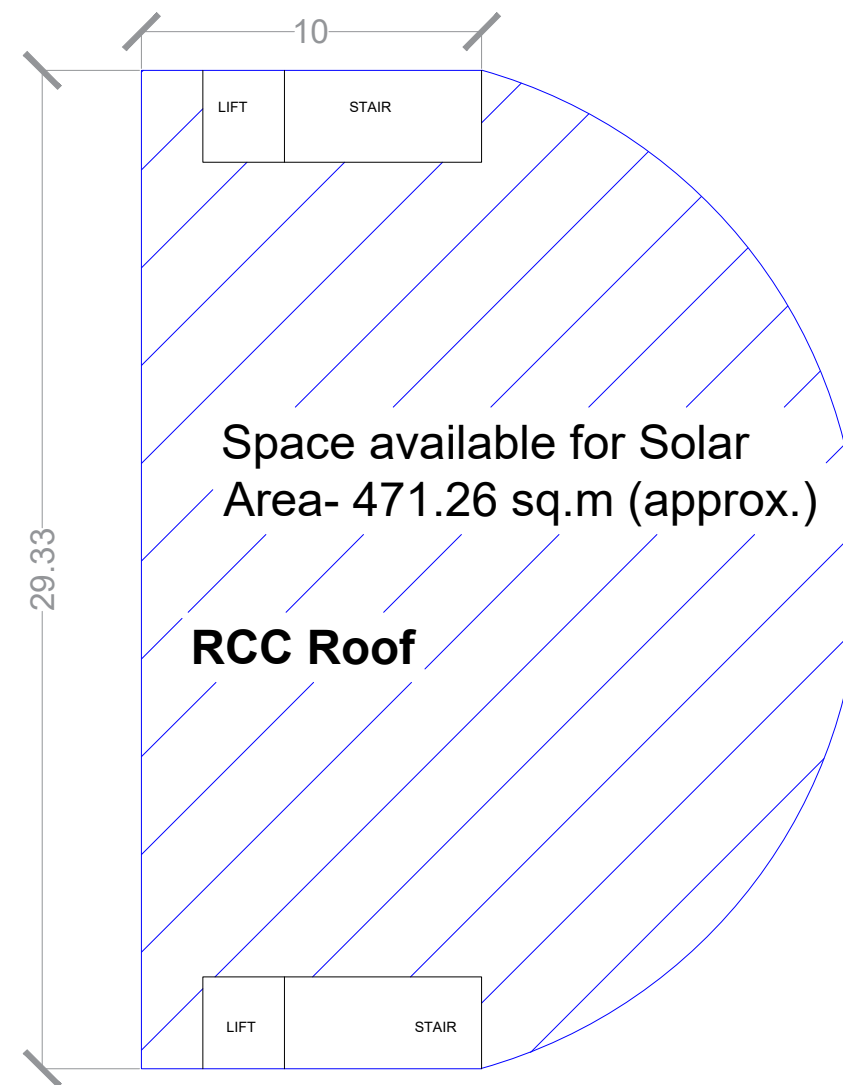
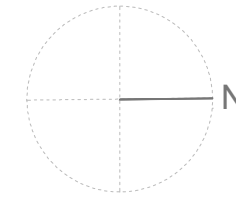
Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/039

REVISION
R 0

For Tender Purpose Only

INTEGRATED COMMAND AND CONTROL CENTRE



For Tender Purpose Only

- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IFE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

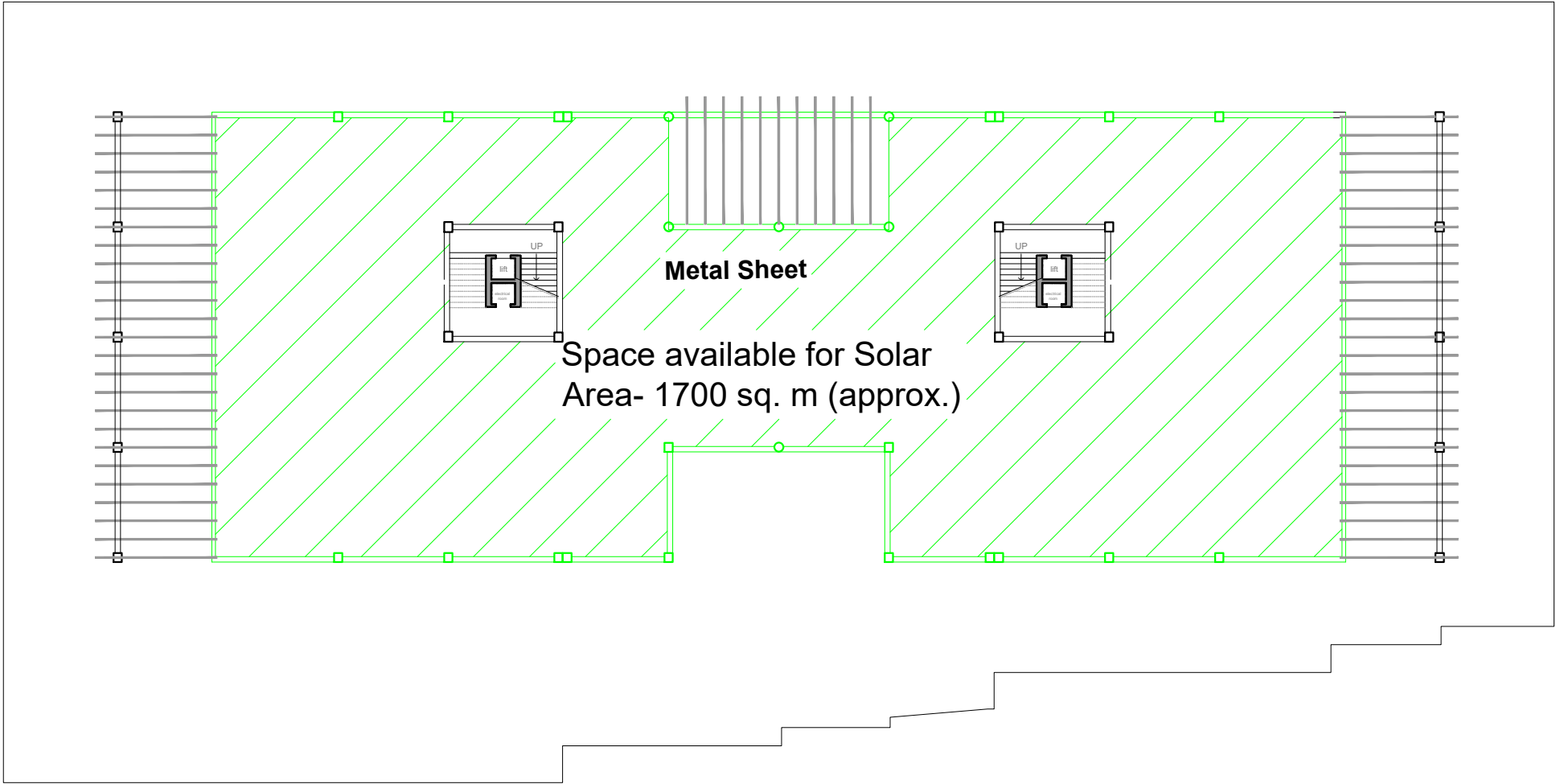
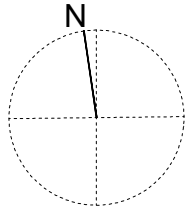
DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR PROPOSED BUILDING FOR INTEGRATED COMMAND AND CONTROL CENTRE (ICCC)

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/040

REVISION
R 0

LAITUMKHARH MARKET



- GENERAL NOTES:**
- All dimensions are in meters, if otherwise specified.
 - Dimensions are to be read and not to be scaled.
 - Solar Photo Voltaic module conforming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2.
 - Solar PV Module conversion efficiency shall not be less than 16.5%.
 - Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz.
 - All switches & the circuit breakers, connectors shall conform to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3.
 - DC DPB's shall have sheet enclosures of dust & Vermin proof confirm to IP65 Protection.
 - The Mounting Structure steel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759.
 - Cable of appropriate size to be used in the system shall meet IEC 60227 / IS 694, IEC 60502 / IS 1554. Temp range -10 deg.C to +80 Deg. C
 - Danger Board shall be provided as and where necessary as per IE Act / IE Rules.

LEGENDS:
PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL

- Notes:**
- RCC ROOF (GOOD CONDITION)
 - RCC ROOF (BAD CONDITION)
 - METEL SHEET ROOF (GOOD CONDITION)
 - METEL SHEET ROOF (BAD CONDITION)

Submitted by
SHILLONG SMART CITY LIMITED

Consultant
IPE GLOBAL LIMITED

PROJECT:
GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS

REV.	DATE	DESCRIPTION	APPROV.
R0	16-05-22	HARD COPY	A.V.

REVISION INDEX

DRAWING TITLE:
PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR PROPOSED LAITUMKHRAH MARKET

Date:	16-05-2022	PREPARED :	AZEL MESHAI KHARBHH
Scale	NTS	CHECKED :	M. MUSHTAQ KHAN
Sheet Size	A3	APPROVED :	ABHILASH VERMA

DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/041

REVISION
R 0

For Tender Purpose Only