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 Bidding Document for Grid Connected Roof Top Solar Photo-Voltic system for various buildings in Shillong, East Khasi Hills District, Meghalaya under Smart Cities Mission

List of Buildings under Project

Bidding Document for Grid Connected Roof Top Solar Photo-Voltic system for various buildings in Shillong, East Khasi Hills District, Meghalaya under Smart Cities Mission

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.		
12	State Sports Council, District Sports Complex (Indoor Stadium)	Department of Sports and Youth Affairs	State Govt.	9,252.72	925.00
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

Details of buildings identified for Grid connect Solar PV System.

Shillong Smart City Limited

Tender No. SSCL/Tender/2020-21/MEG-SHI-25 2

2

Bidding Document for Grid Connected Roof Top Solar Photo-Voltic system for various buildings in Shillong, East Khasi Hills District, Meghalaya under Smart Cities Mission

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

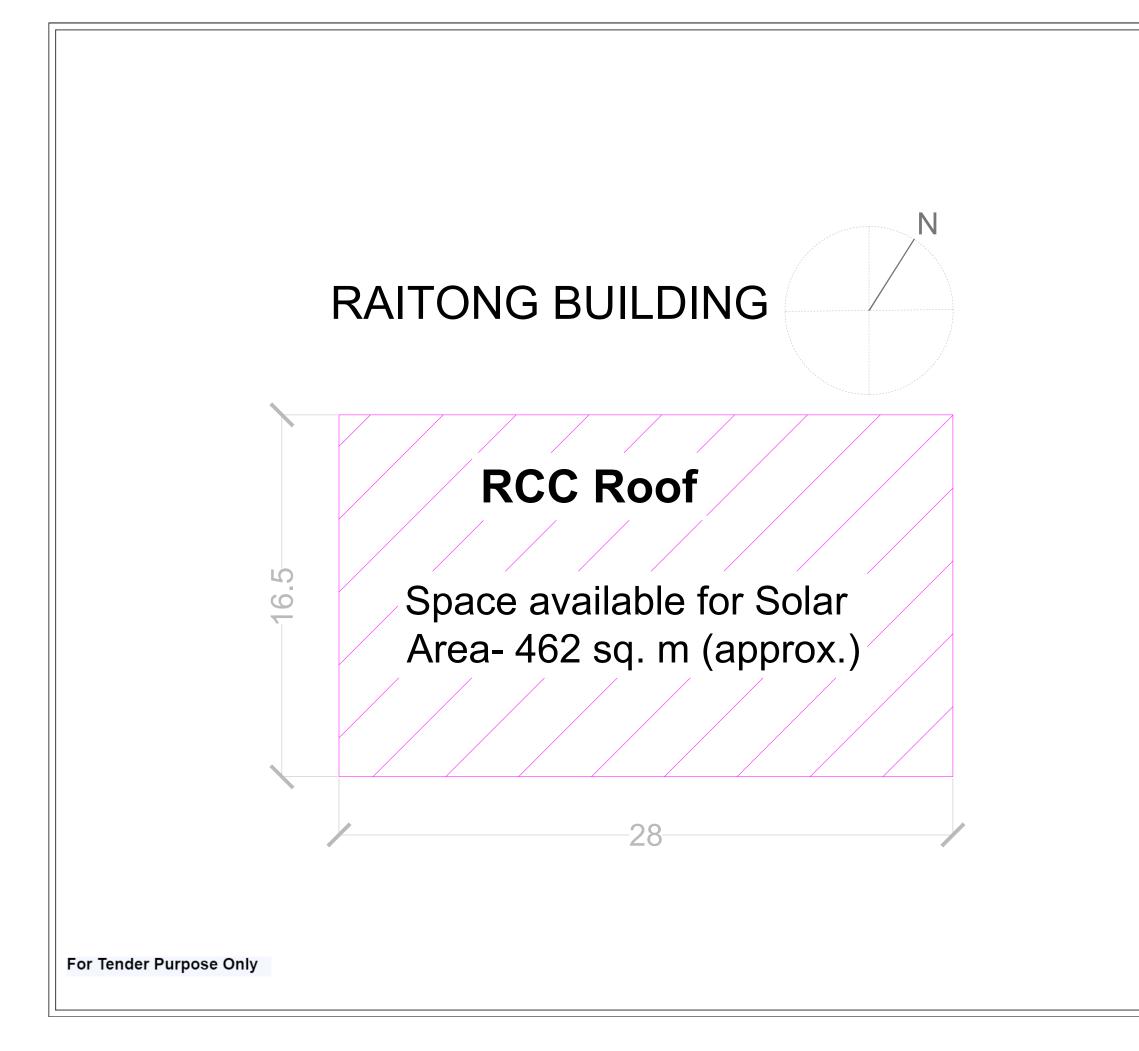
* Please Note: The list of buildings given above is as per the current requirement, the same is subject to change at any time at the discretion of the Employer.

Shillong Smart City Limited

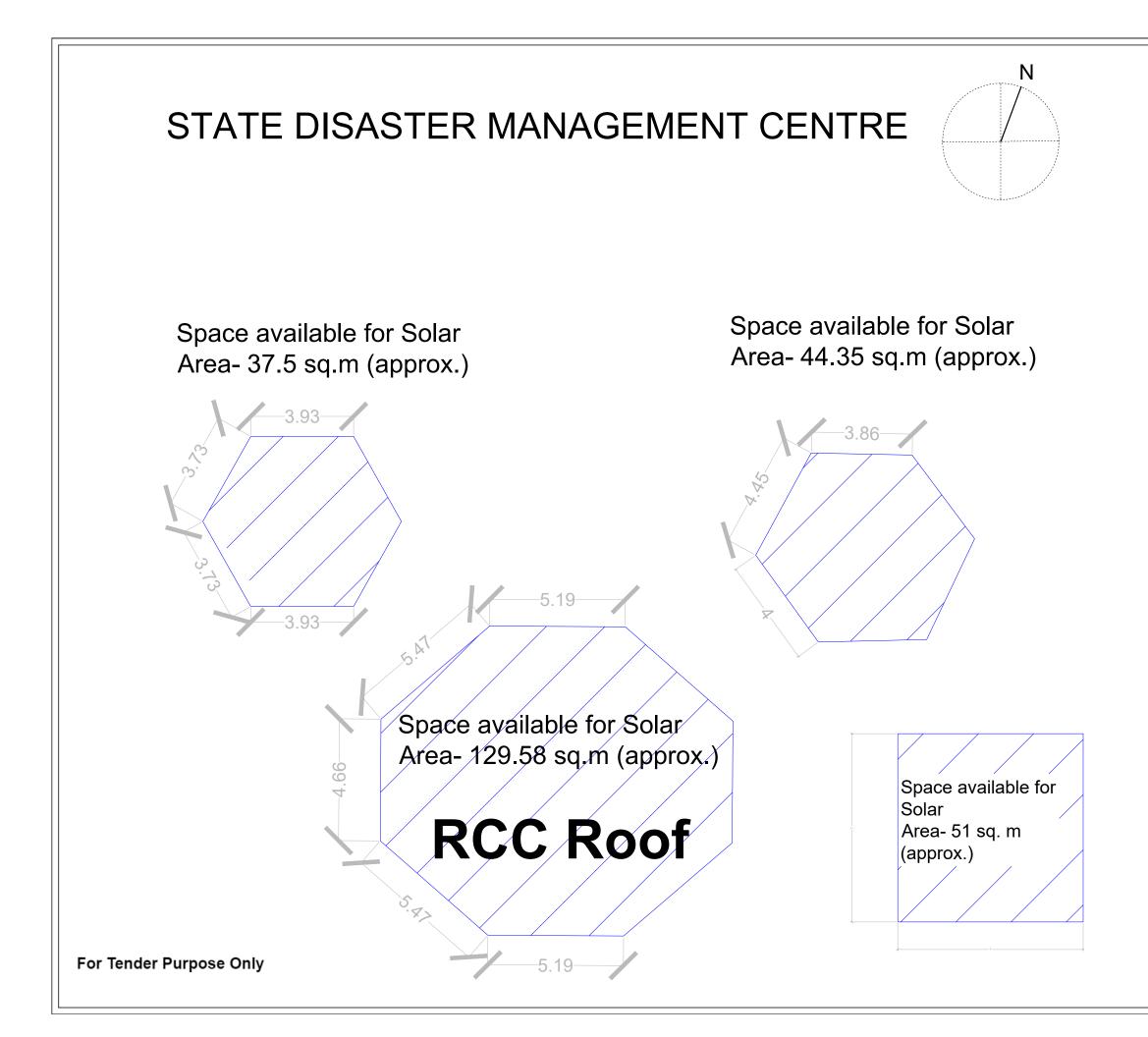
3

Bidding Document for Grid Connected Roof Top Solar Photo-Voltic system for various buildings in Shillong, East Khasi Hills District, Meghalaya under Smart Cities Mission

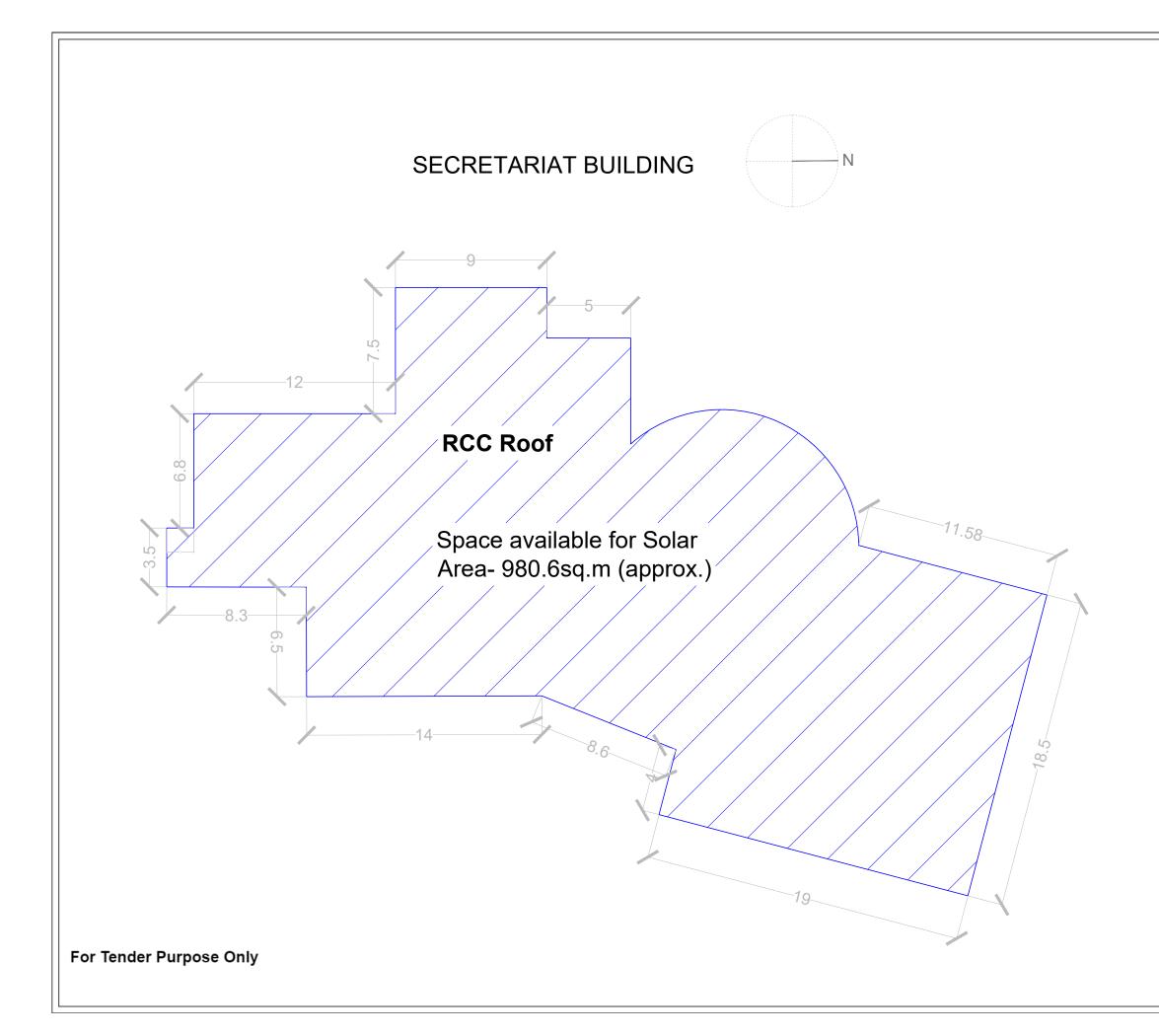
Roof Plans of Buildings



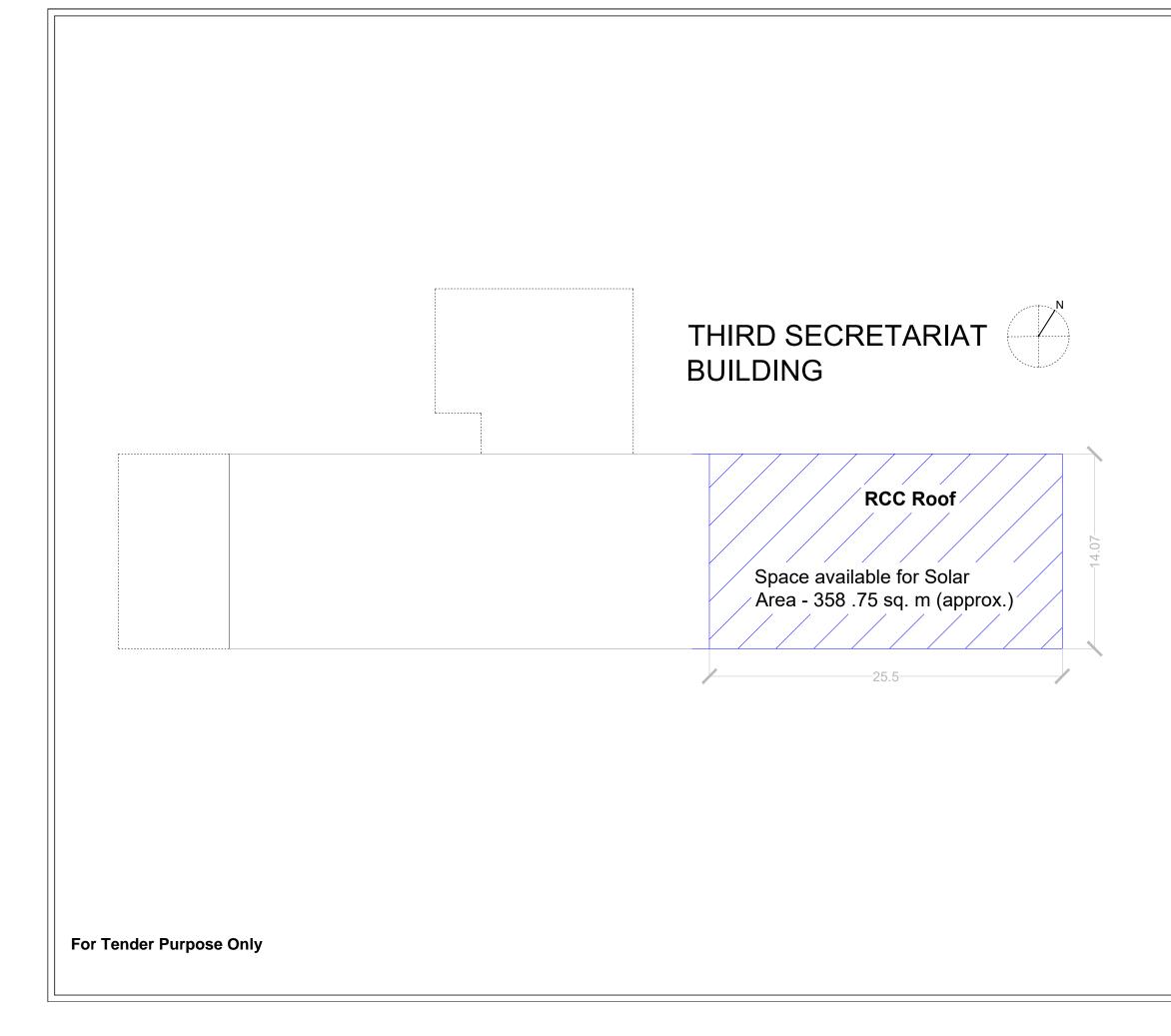
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5%. 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, Soltz. 6. All switches & the circuit breakers, connectors shall confirm to IEC 60947 Part-1, 2 & 3. and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. 8. The Mounting Structuresteel 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 65022 / 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
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 RAITONG BUILDING
Date: PREPARED :
16-05-2022 CHECKED :
Scale Sheet Size M. MUSHTAQ KHAN NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO: REVISION
5.3.0000



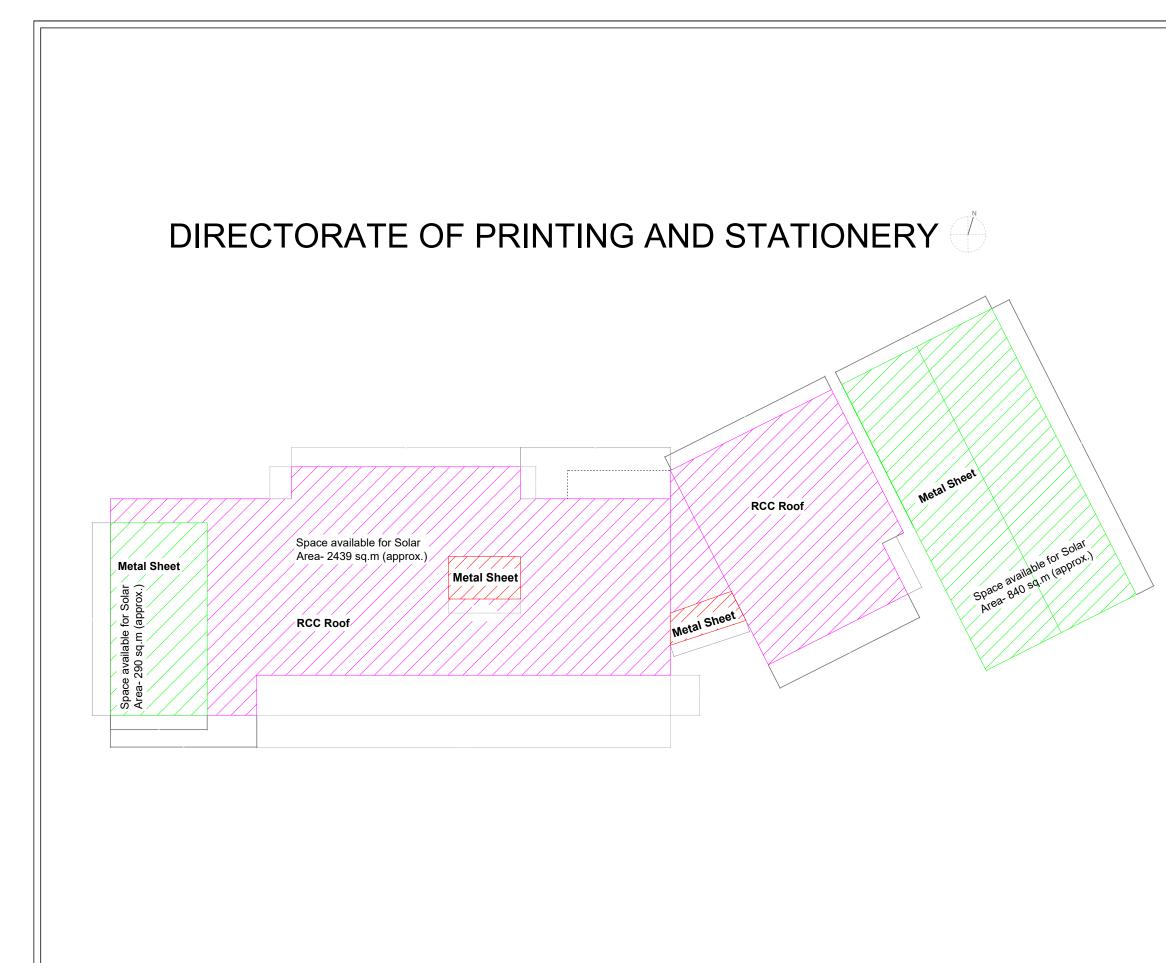
 61730 Part-1, IS / II 4. Solar PV Modue c 5. Power Conditionir 400VAC, 3Ph, 4wii 6. All switches & the 	conversion efficiency shall no ng Unit (PCU) of 350-800 VDC re, 50Hz. circuit breakers. connectors	ed. 286 / IEC 61215, IS / IEC t be less tha 16.5%. Input Voltage range and
 DC DPB's shall hav IP65 Protection. The Mounting Stru- galvanization of th 4759. Cable of appropri 	\$ 60947 Part-1, 2 & 3, we sheet encosers of dust & V incluresteel shall be as per lath he mounting structure shall c iate size to be used in the syst	est IS 2062:1992 & ompliance of latest IS item shall meet IEC 60227 /
10. Danger Board sho IE Rules.	IS 1554. Temp range-10 deg	
	: LOCATION / AREA FO-VOLTAIC CELL	
Notes:		
RCC F	ROOF (GOOD CONI	DITION)
RCC F	ROOF (BAD CONDI	TION)
METEI	L SHEET ROOF (G	OOD CONDITION)
METE	L SHEET ROOF (B/	AD CONDITION)
Submitted by		
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R0 16-05 REV. DAT REVISION DRAWING PROPOSED L TOP SYSTEM	CTED ROOFTOP S STEM AT VARIOUS -22 HARD COP TE DESCRIPTI INDEX TITLE: COCATION FOR SC 1 FOR STATE DISA IT AUTHORITY Date: 16-05-2022 C Scale Sheet Size NTS A3 A	S BUILDINGS



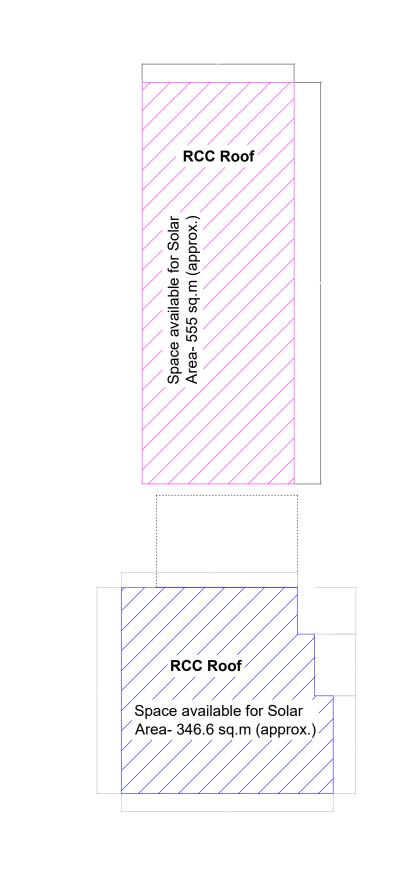
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 6130 Part-2. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5%. 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range: 400VAC, 3Ph, 4Wire, 50Hz. 6. All switches & the circuit breakers, connectors shall confirm to IEC 60 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IEC 60 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 8. The Mounting Structuresteel 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 60 IS 8/4, IEC 60502 / 15 154, Temge-10 deg, C to +80 Deg, C 10. Danger Board shall be provided as and where necessary as per IE A IE Rules. 	and 947 5
LEGENDS: PROPOSED LOCATION / AREA FOR MOUNTI SOLAR PHOTO-VOLTAIC CELL	NG
Notes:	
RCC ROOF (GOOD CONDITION)	
RCC ROOF (BAD CONDITION)	
	DN)
METEL SHEET ROOF (BAD CONDITION)
Submitted by	
SHILLONG SMART CITY LIMITED	
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 APPRO REVISION INDEX	
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR SECRETARIAT, GOVERNMENT OF MEGHALAYA	
Date: PREPARED : AZEL MESHA J KHARBHIH	
16-05-2022 CHECKED : Scale Sheet Size M.MUSHTAQ KHAN	
NTS A3 APPROVED : ABHILASH VERMA	
DRAWING NO:	I
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 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 (BAD CONDITION)
Submitted by
SHILLONG SMART CITY LIMITED
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 3rd SECRETARIAT BUILDING
Date: PREPARED :
16-05-2022 CHECKED :
Scale Sheet Size M.MUSHTAQ KHAN NTS A3 APPROVED :
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/04 R 0



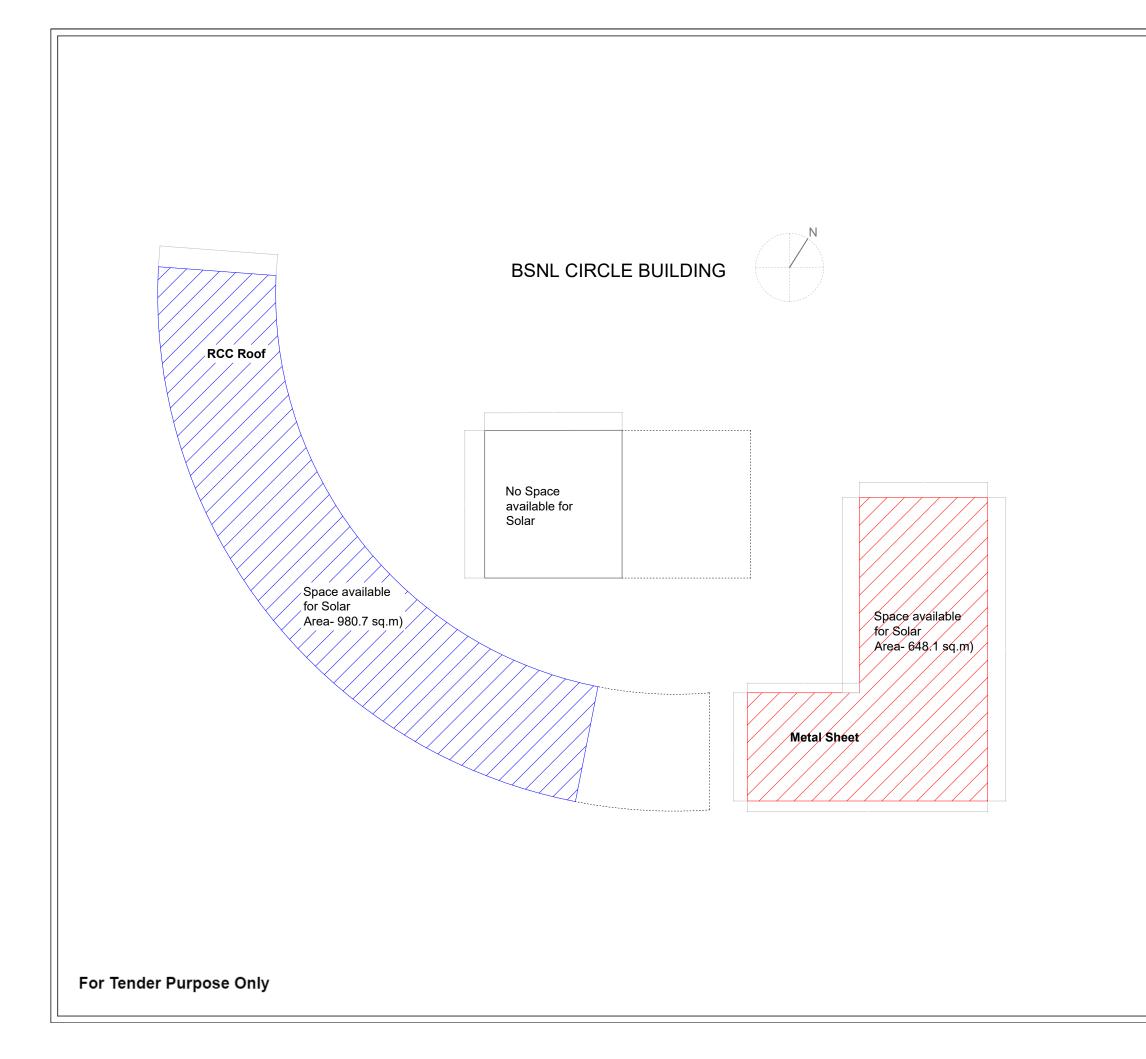
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 All switches & the c Part-1, 2 & 3 and IS DC DPB's shall have IP65 Protection. The Mounting Struct 	ircuit breakers. connec 60947 Part-1, 2 &3. e sheet encosers of dus	t & Vermin p er latest IS 20	proof confirm to 162:1992 &
 Cable of appropria IS 694, IEC 60502 / IS 10. Danger Board shall IE Rules. 	3 1554. Temp range-10	deg.C to +8	80 Deg. C
LEGENDS: PROPOSED LI SOLAR PHOT	OCATION / AR O-VOLTAIC CE		MOUNTING
Notes:			
RCC RC	DOF (GOOD C	ONDITIC	DN)
	OOF (BAD CON	DITION)
METEL	SHEET ROOF	(GOOD	CONDITION)
METEL	SHEET ROOF	(BAD C	ONDITION)
Submitted by	GSMART		IMITED
Consultant			
IP	GLOBAL		:D
PROJECT: GRID CONNEC VOLTAIC SYS	CTED ROOFTC		
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	Scale Sheet Size	CHECKE M. MUSHTA	Q KHAN
	A 2	APPRO\	/ED :
	NTS A3	ABHILASH \	/ERMA
DRAWING I	NO:	ABHILASH	REVISION



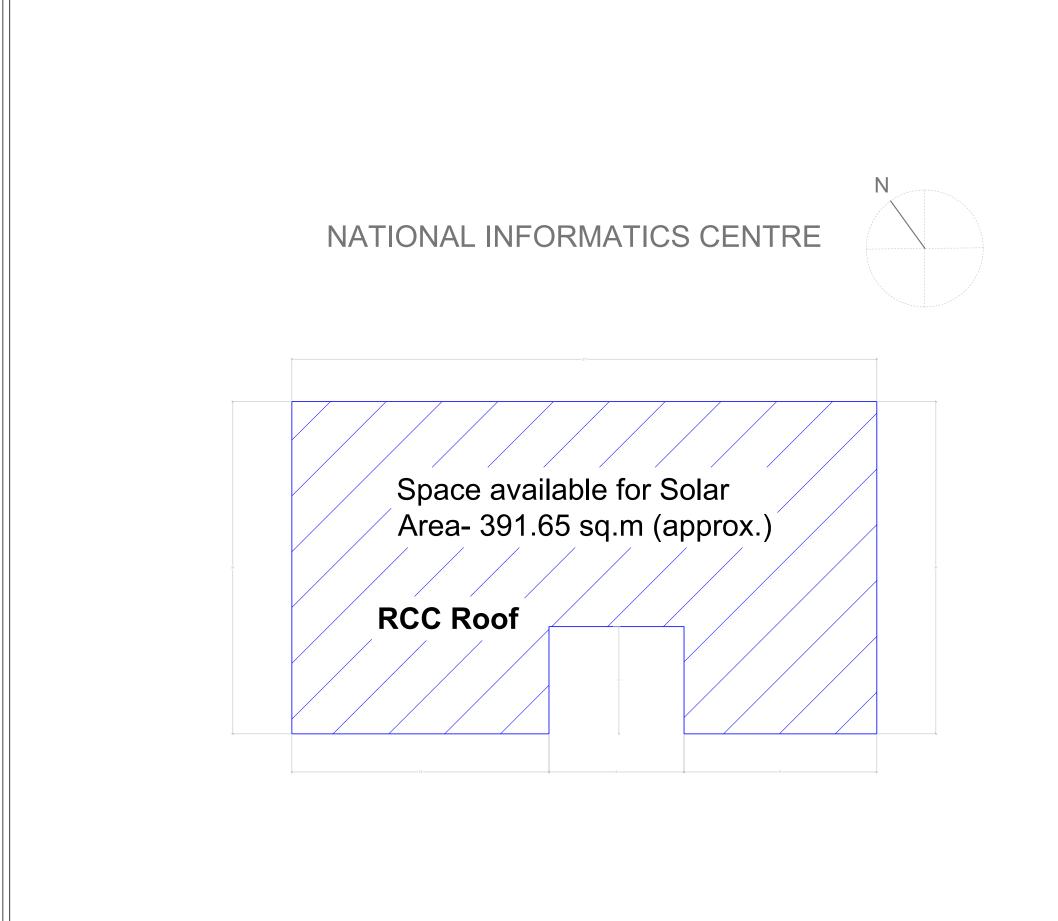
O/o. CHIEF COMMISSIONER OF INCOME TAX



 GENERAL NOTES: All dimensions are to be read and not to be scaled. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less that 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 (BAD CONDITION)
Submitted by
SHILLONG SMART CITY LIMITED
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 OFFICE OF THE CHIEF COMMISSIONER OF INCOME TAX
Date: PREPARED : 16-05-2022
CHECKED : Scale Sheet Size M. MUSHTAQ KHAN
NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/06 R 0



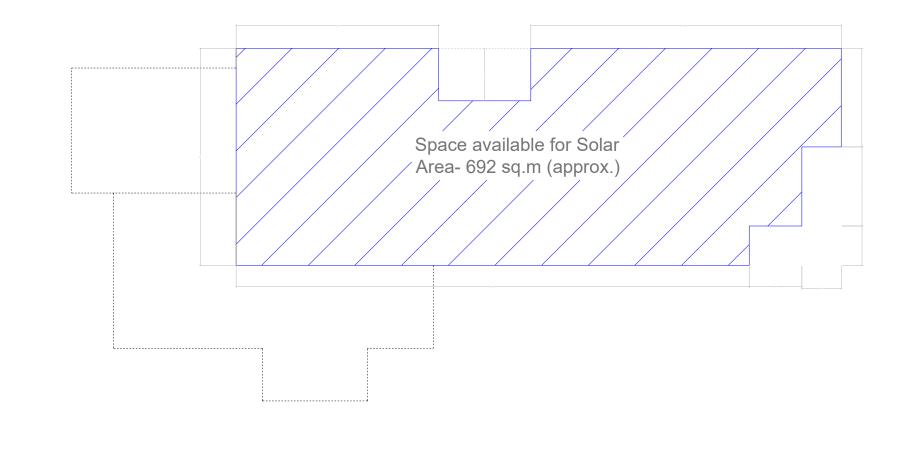
 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 16.5%. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers, connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 644, 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
IPE GLOBAL LIMITED
PROJECT: GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS
R016-05-22HARD COPYA.V.REV.DATEDESCRIPTIONAPPROV.REVISION INDEX
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR BSNL CIRCLE OFFICE
Date: PREPARED : 16-05-2022 AZEL MESHAJ KHARBHIH Scale Sheet Size NTS A3
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/07 R 0



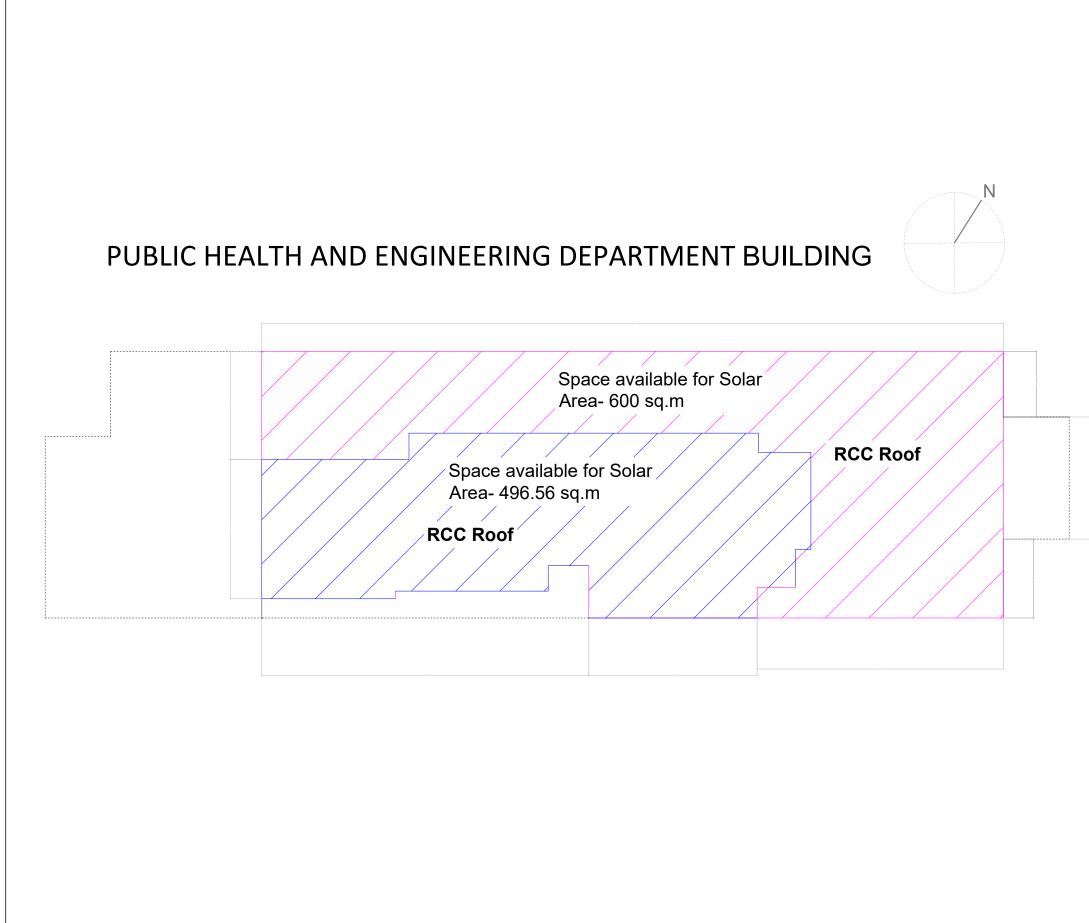
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61730 Part-1, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less 5. Power Conditioning Unit (PCU) of 350-800 VDC Input V 400VAC, 3Ph, 4wire, 50Hz. 6. All switches & the circuit breakers, connectors shall con Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin p IPAS Protection. 8. The Mounting Structuresteel shall be as per latest IS 200 galvanization of the mounting structure shall complian 4759. 9. Cable of appropriate size to be used in the system shall is 644. IEC 60502 / IS 1554. Temp range-10 deg. C to +88 10. Danger Board shall be provided as and where necessal IE Rules. 	tha 16.5%. oltage range and nfirm to IEC 60947 roof confirm to 52:1992 & ice of latest IS all meet IEC 60227 / 0 Deg. C
LEGENDS: PROPOSED LOCATION / AREA FOR SOLAR PHOTO-VOLTAIC CELL	MOUNTING
Notes:	
RCC ROOF (GOOD CONDITIO	N)
RCC ROOF (BAD CONDITION)	
	CONDITION)
METEL SHEET ROOF (BAD CO	ONDITION)
SHILLONG SMART CITY L	IMITED
IPE GLOBAL LIMITE	D
PROJECT: GRID CONNECTED ROOFTOP SOLA VOLTAIC SYSTEM AT VARIOUS BUI	
R016-05-22HARD COPYREV.DATEDESCRIPTION	A.V. APPROV.
REVISION INDEX	
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR TOP SYSTEM FOR NATIONAL INFOR CENTRE (NIC)	
Date: PREPARI	ED : A J KHARBHIH
16-05-2022 CHECKEI Scale Sheet Size M. MUSHTAC	
NTS A3 APPROV	
DRAWING NO:	REVISION
IPE/SSCL/MEG-SH/SOLAR/08	



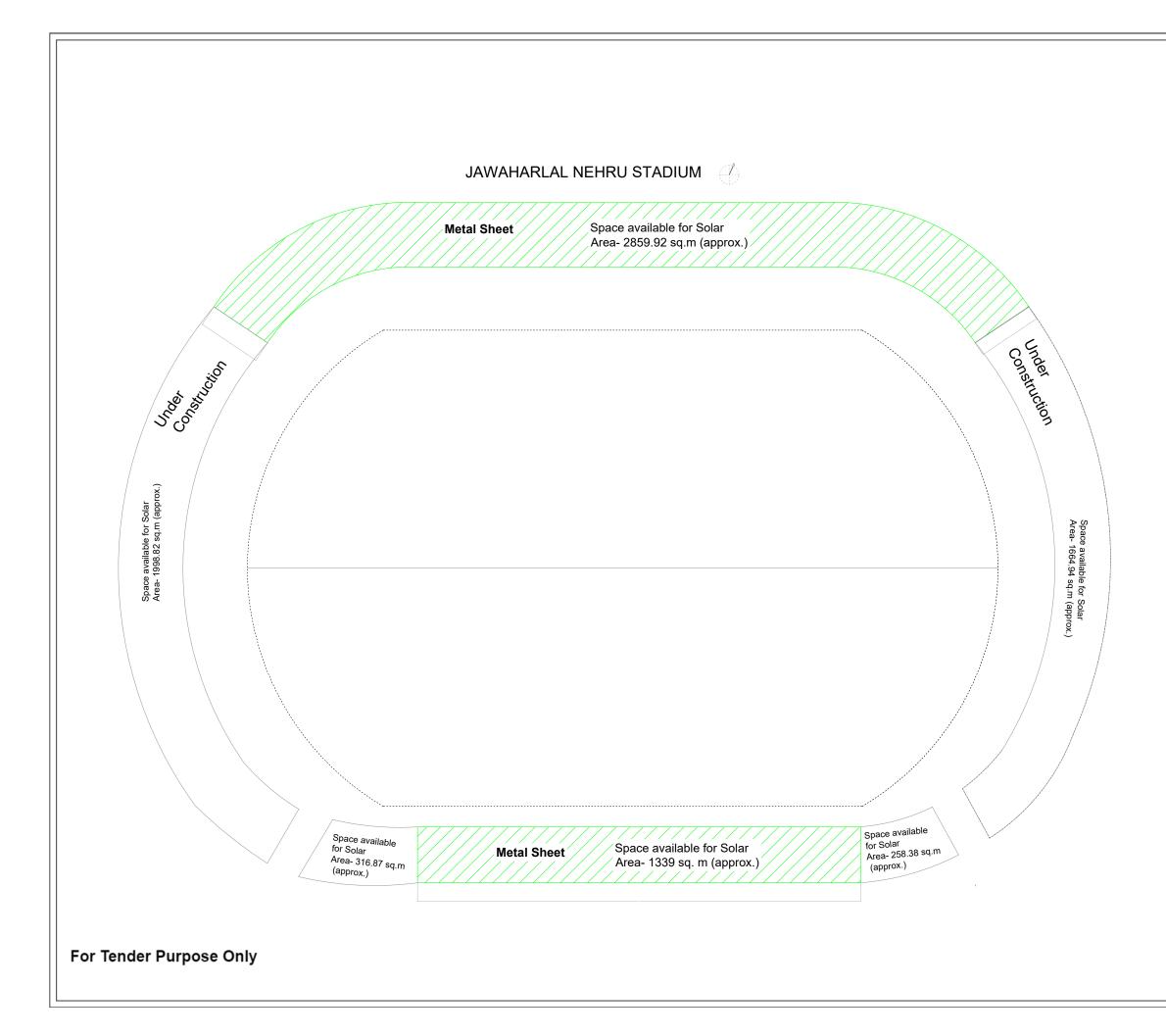




	in meters, if otherwise spe be read and not to be sco c module confirming to IS	
 Power Conditionir 400VAC, 3Ph, 4wir 	EC 61730 Part-2. conversion efficiency shall r ng Unit (PCU) of 350-800 VE re, 50Hz.	
Part-1, 2 & 3 and 1 7. DC DPB's shall hav IP65 Protection.	S 60947 Part-1, 2 &3. ve sheet encosers of dust 8	Vermin proof confirm to
galvanization of th 4759.	cturesteel shall be as per lone mounting structure shall iate size to be used in the s	
IS 694, IEC 60502 /	IS 1554. Temp range-10 de	
LEGENDS:		
PROPOSED I		A FOR MOUNTING L
Notes:		
RCC F	ROOF (GOOD COI	NDITION)
RCC F	ROOF (BAD CONE	DITION)
METEI	_SHEET ROOF (GOOD CONDITION)
	L SHEET ROOF (I	BAD CONDITION)
	NG SMART C	ITY LIMITED
Consultant	E GLOBAL LI	MITED
DRO IECT.		
	CTED ROOFTOF	P SOLAR PHOTO - JS BUILDINGS
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R0 16-05- REV. DAT REVISION DRAWING PROPOSED L TOP SYSTEM	22 HARD CO 22 HARD CO TE DESCRIPT INDEX TITLE: OCATION FOR S I FOR OFFICE OF ARTMENT (PWD) Date:	US BUILDINGS
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L TOP SYSTEM	-22 HARD CO -22 HARD CO TE DESCRIPT INDEX TITLE: .OCATION FOR S I FOR OFFICE OF ARTMENT (PWD)	JS BUILDINGS
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L TOP SYSTEM	CALL STEM AT VARIOU ARD CO TE DESCRIPT INDEX TITLE: OCATION FOR S I FOR OFFICE OF ARTMENT (PWD) Date: 16-05-2022 Scale Sheet Size NTS A3	JS BUILDINGS



GENERAL NOTES:	
 All dimensions are in meters, if Dimensions are to be read and Solar Photo Voltaic module co 	
61730 Part-1, IS / IEC 61730 Part-1, IEC 61730 Part	rt-2. fficiency shall not be less tha 16.5%.
400VAC, 3Ph, 4wire, 50Hz.) of 350-800 VDC Input Voltage range and kers. connectors shall confirm to IEC 60947
Part-1, 2 & 3 and IS 60947 Part-	
Ű	nall be as per latest IS 2062:1992 &
4759.	g structure shall compliance of latest IS
IS 694, IEC 60502 / IS 1554. Tem	ap range-10 deg.C to +80 Deg. C ed as and where necessary as per IE Act /
IE Rules.	
LEGENDS:	
PROPOSED LOCATIO	ON / AREA FOR MOUNTING TAIC CELL
Notes:	
RCC ROOF (G	GOOD CONDITION)
RCC ROOF (B	BAD CONDITION)
METEL SHEET	ROOF (GOOD CONDITION)
METEL SHEET	ROOF (BAD CONDITION)
Submitted by	
SHILLONG SM	ART CITY LIMITED
IPE GLC	OBAL LIMITED
PROJECT:	
GRID CONNECTED F	ROOFTOP SOLAR PHOTO -
GRID CONNECTED F	ROOFTOP SOLAR PHOTO - T VARIOUS BUILDINGS
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GRID CONNECTED F VOLTAIC SYSTEM AT R0 16-05-22 F REV. DATE DE REVISION INDEX DRAWING TITLE: PROPOSED LOCATIO TOP SYSTEM FOR O HEALTH AND ENGINI (PHED)	T VARIOUS BUILDINGS
GRID CONNECTED F VOLTAIC SYSTEM AT R0 16-05-22 H REV. DATE DE REVISION INDEX DRAWING TITLE: PROPOSED LOCATIO TOP SYSTEM FOR O HEALTH AND ENGINI (PHED)	T VARIOUS BUILDINGS
GRID CONNECTED F VOLTAIC SYSTEM AT R0 16-05-22 REV. DATE DE REVISION INDEX DRAWING TITLE: PROPOSED LOCATIO TOP SYSTEM FOR O HEALTH AND ENGINI (PHED)	T VARIOUS BUILDINGS
GRID CONNECTED F VOLTAIC SYSTEM AT R0 16-05-22 H REV. DATE DE REVISION INDEX DRAWING TITLE: PROPOSED LOCATIO TOP SYSTEM FOR O HEALTH AND ENGINE (PHED) Date: 16-05- Scale NTS	T VARIOUS BUILDINGS
GRID CONNECTED F VOLTAIC SYSTEM AT R0 16-05-22 H REV. DATE DE REVISION INDEX DRAWING TITLE: PROPOSED LOCATIO TOP SYSTEM FOR O HEALTH AND ENGINI (PHED) Date: 16-05- Scale	T VARIOUS BUILDINGS



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GENERAL NOTE		
	neters, if otherwise specified. read and not to be scaled.	
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61730 Part-1, IS / IEC 6 4. Solar PV Modue conv	el 730 Part-2. ersion efficiency shall not be le:	is tha 16.5%.
5. Power Conditioning U	nit (PCU) of 350-800 VDC Input	
400VAC, 3Ph, 4wire, 5	0Hz. uit breakers. connectors shall c	onfirm to IEC 60947
Part-1, 2 & 3 and IS 60		
	neet encosers of dust & Vermin	proof confirm to
IP65 Protection. 8. The Mounting Structure	resteel shall be as per latest IS 2	062:1992 &
galvanization of the n	nounting structure shall complic	
4759. 9. Cable of appropriate	size to be used in the system sh	all meet IEC 60227 /
	554. Temp range-10 deg.C to +	
10. Danger Board shall be IE Rules.	e provided as and where neces	sary as per IE Act /
it rolos.		
LEGENDS:		
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SOLAR PHOTO	-VOLTAIC CELL	
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RUC RU	OF (BAD CONDITION)
METELS	HEET ROOF (GOOD	CONDITION)
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Submitted by		
SHILLONG	SMART CITY	
	3 SIMARI CITTI	
Consultant		
IPE	GLOBAL LIMITE	D
PROJECT:		
	TED ROOFTOP SOL	
VOLTAIC SYST	EM AT VARIOUS BU	ILDINGS
R0 16-05-22		A.V.
REV. DATE	DESCRIPTION	APPROV.
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	OR JAWAHARLAL N	EHRU
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IPE/SSCL/MEG-S	II/ JOLAN/ULL	
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STATE'S SPORTS COUNCIL (INDOOR STADIUM)

Space available for Solar Area- 173.46 sq.m (approx.)

Metal Sheet

Space available for Solar Area- 809.2 sq.m (approx.)

Space available for Solar Area- 146.26 sq.m (approx.)

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

For Tender Purpose Only

 GENERAL NOTES: All dimensions are to be read and not to be scaled. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 854. 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
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 STATE SPORTS COUNCIL, DISTRICT SPORTS COMPLEX (INDOOR STADIUM) Date: PREPARED :
16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 ABHILASH VERMA
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/012 R 0

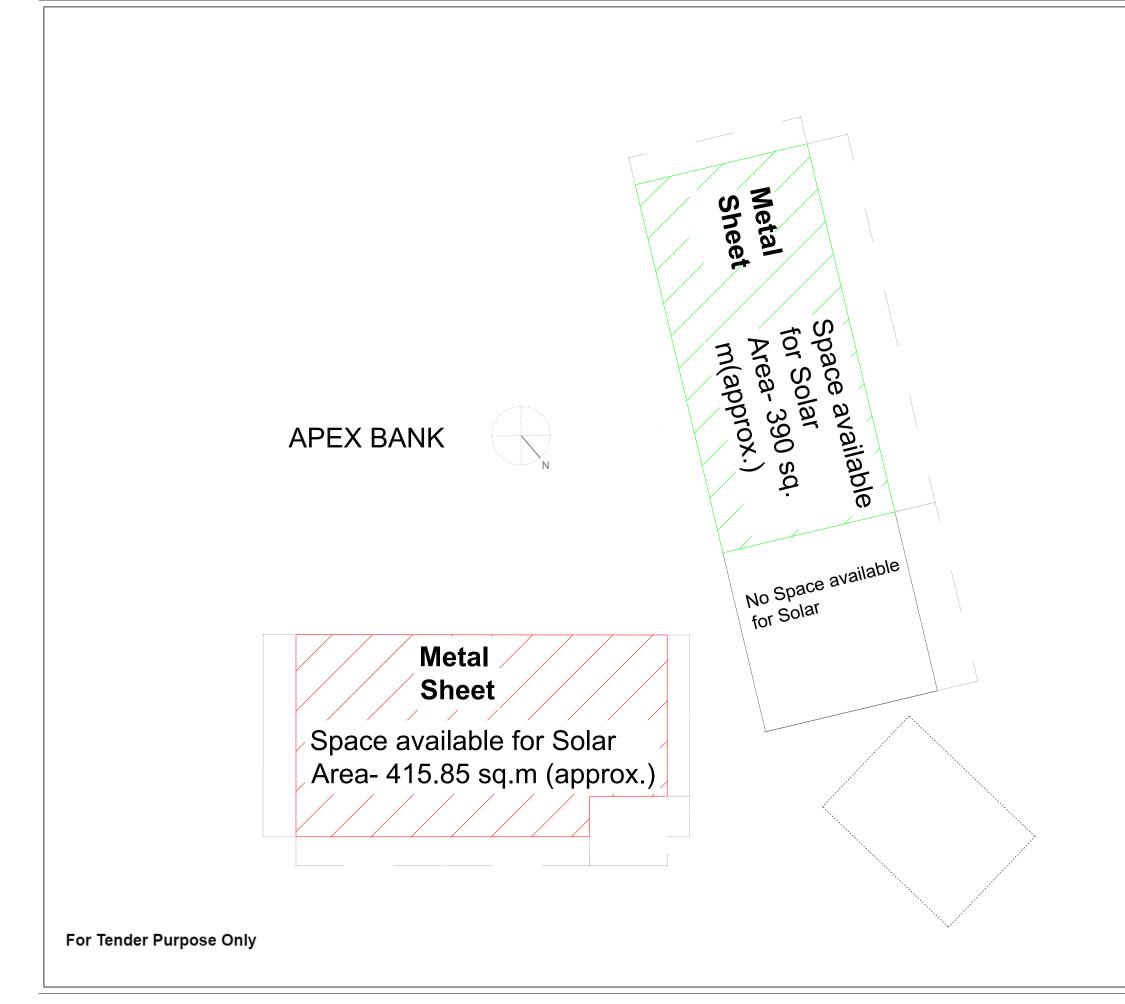
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Space available for Solar Area- 113.95 sq.m (approx.)

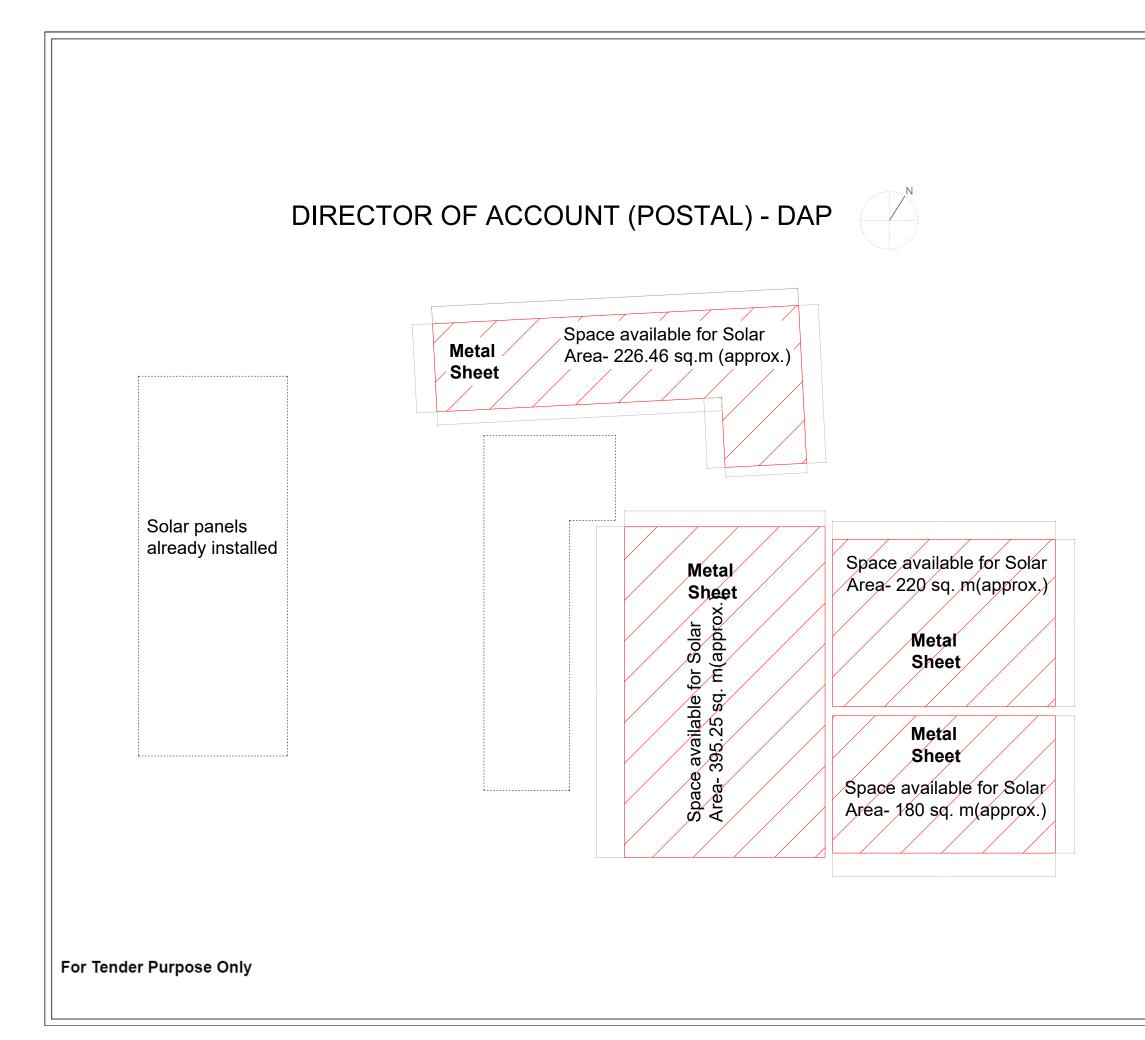
INDOOR TRAINING HALL, POLO

Metal Sheet Space available for Solar Area- 600 sq.m (approx.)

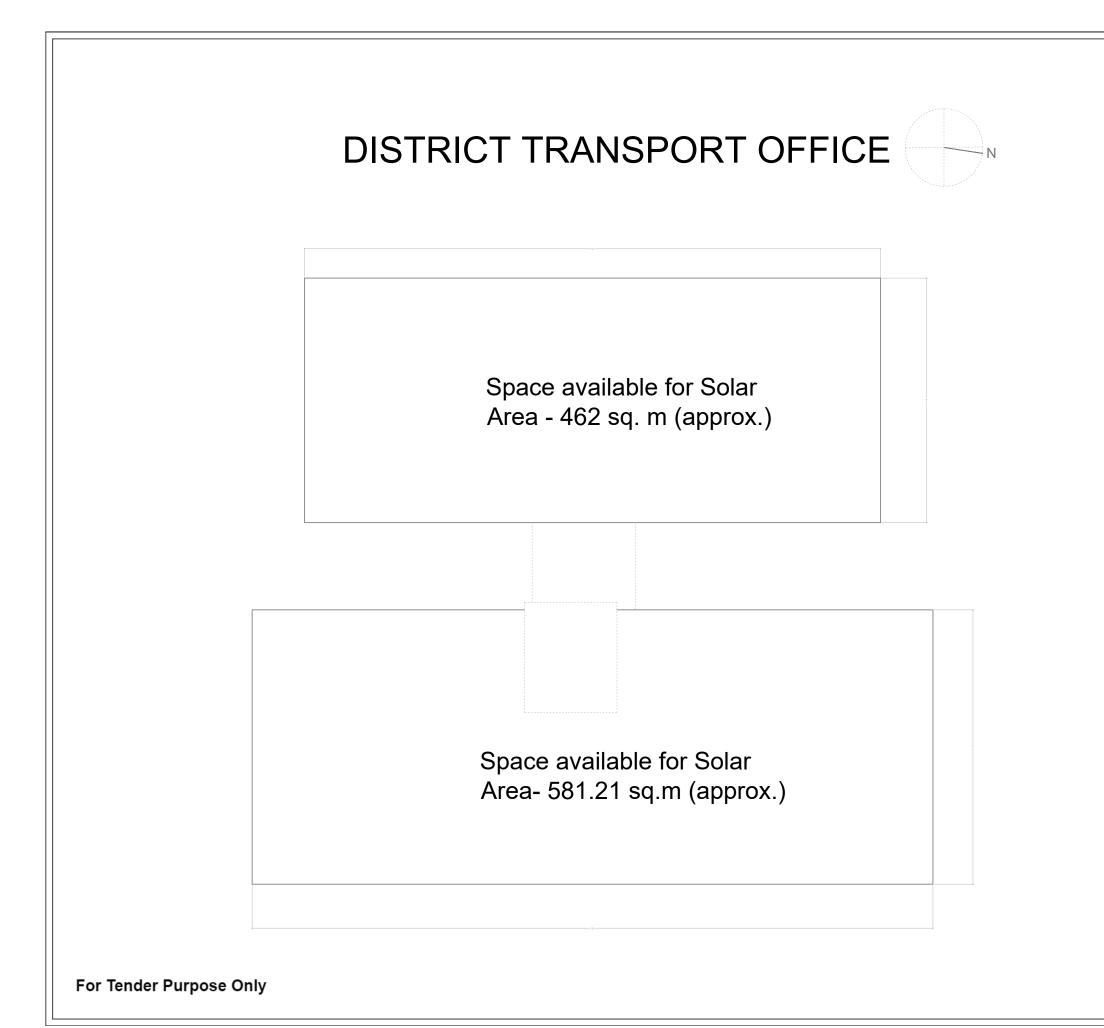
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5%. 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. 8. The Mounting Structuresteel 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 644, 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
PROJECT: GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS
R016-05-22HARD COPYA.V.REV.DATEDESCRIPTIONAPPROV.REVISION INDEX
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR INDOOR TRAINING HALL, POLO, SHILLONG
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size
NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/013 R 0



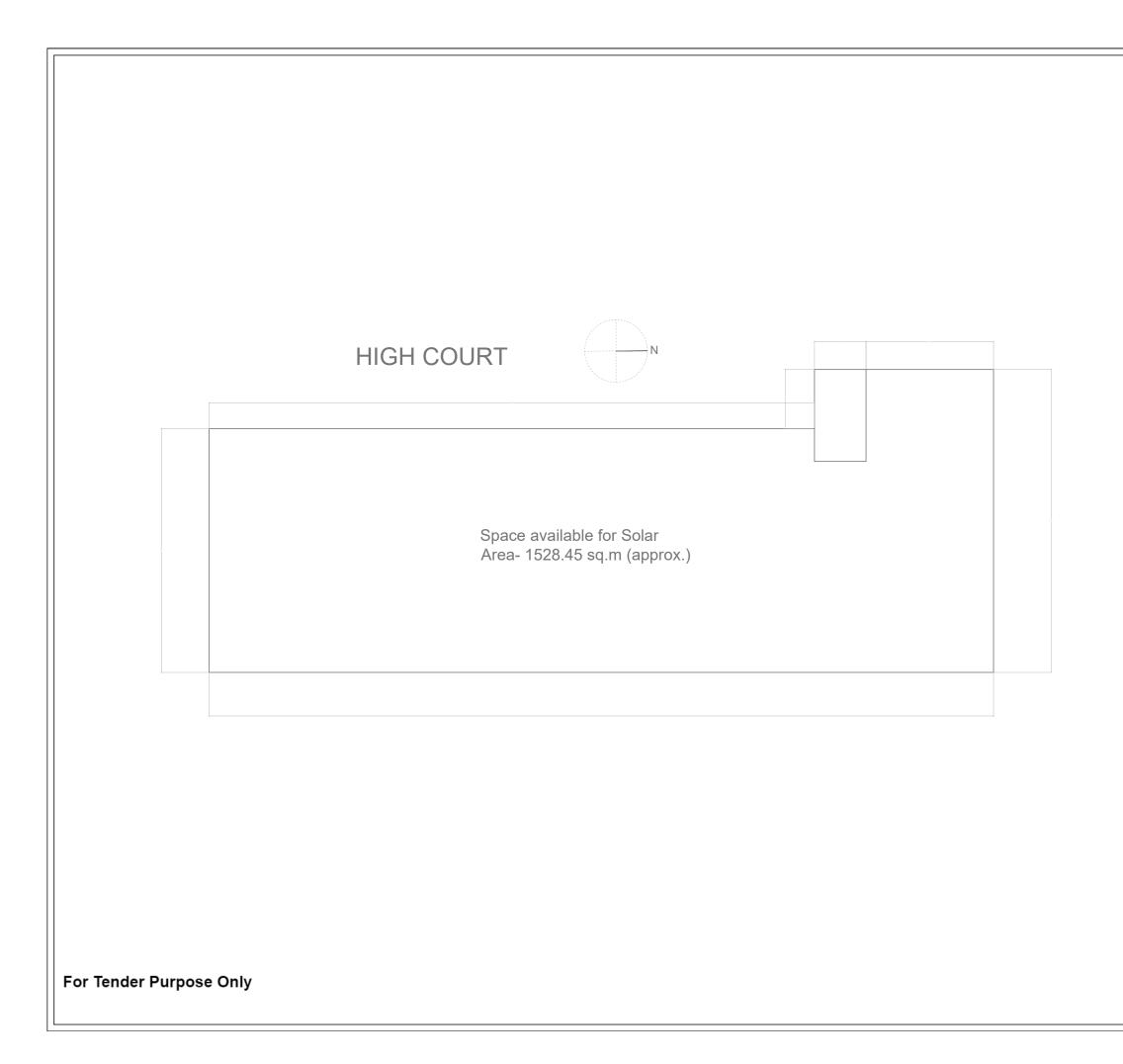
3. Solar P 61730			if otherwise sp		
		module c			C 61215, IS / IEC
	V Modue co	nversion e	efficiency shal		s tha 16.5%. 'oltage range and
6. All swit		ircuit brec		tors shall co	nfirm to IEC 60947
7. DC DP	2 & 3 and IS B's shall have otection.			& Vermin p	proof confirm to
8. The Mo	ounting Struc		hall be as per g structure sha		62:1992 & nce of latest IS
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_	ILLON	G SN	AART C	CITY L	IMITED
Consultant		GLO	OBAL L	IMITE	D
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GRID	CONNEC				
GRID	CONNEC				
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R0 REV. REV. DRAV PROPUTOP S C0-OP	CONNEC AIC SYS 16-05-2 DATI SION I WING T OSED LC SYSTEM PERATIVI		HARD CC ESCRIP (ON FOR HE MEG	DPY TION SOLAR HALAY, TD, PC	A.V. APPROV.
R0 REV. REV. DRAV PROPUTOP S C0-OP	CONNEC AIC SYS 16-05-2 DATI SION I WING T OSED LC SYSTEM PERATIVI	TEM A	HARD CO SCRIP C ON FOR HE MEG X BANK I	DPY TION SOLAR HALAY, TD, PC	A.V. APPROV.
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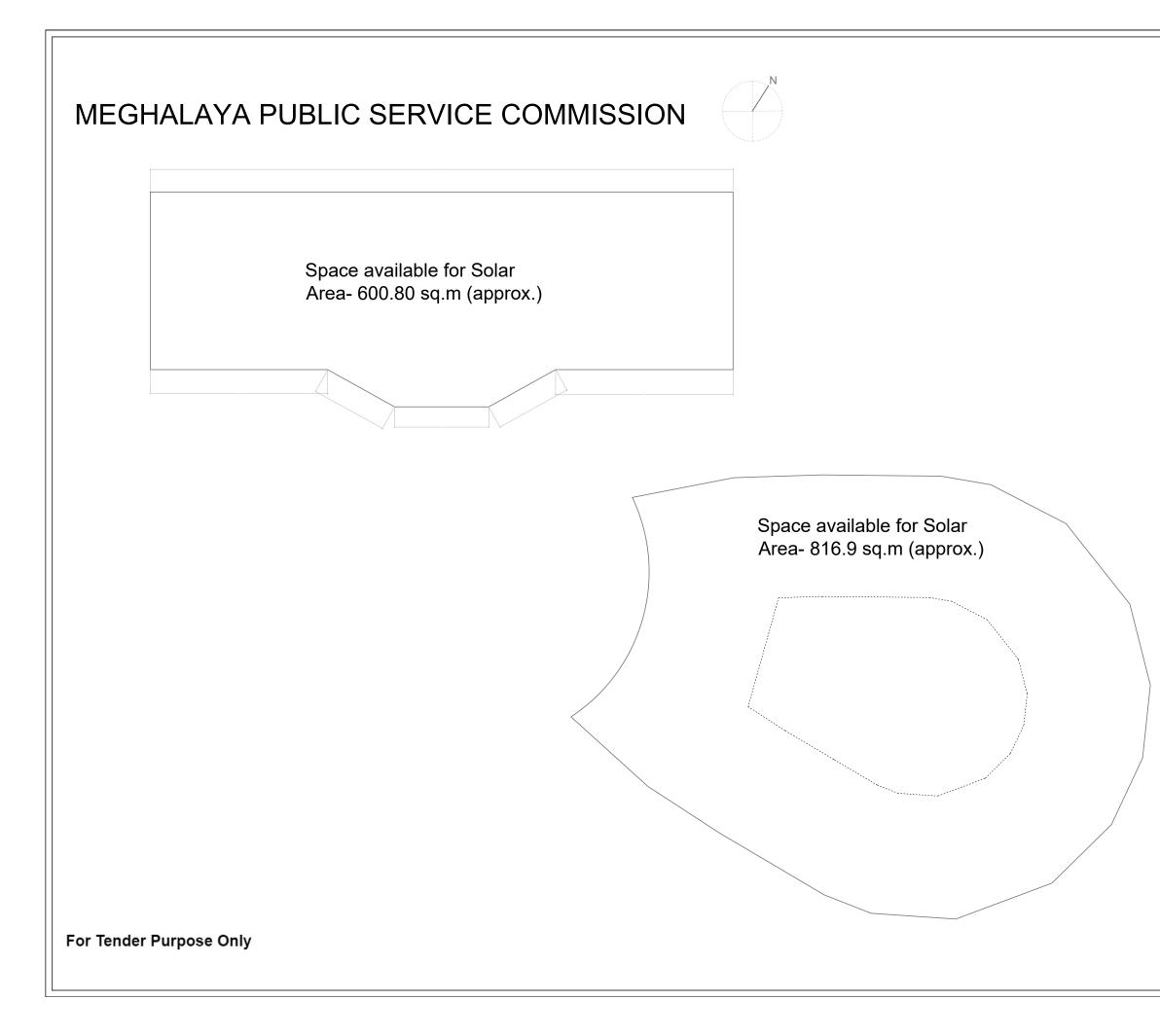
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IE 61730 Part-1, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be les 5. Power Conditioning Unit (PCU) of 350-800 VDC Input V 400VAC, 3Ph, 4wire, 50Hz. 6. All switches & the circuit breakers, connectors shall co Part-1, 2. 8.3 and IS 60947 Part-1, 2. 8.3. 7. DC DPB's shall have sheet encosers of dust & Vermin ş IPA's Protection. 8. The Mounting Structuresteel shall be as per latest IS 20 galvanization of the mounfing structures shall compila 4759. 9. Cable of appropriate size to be used in the system sh IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +6 10. Danger Board shall be provided as and where neces IE Rules. 	s tha 16.5%. /oltage range and onfirm to IEC 60947 proof confirm to 162:1992 & nce of latest IS all meet IEC 60227 / 30 Deg, C
LEGENDS: PROPOSED LOCATION / AREA FOR SOLAR PHOTO-VOLTAIC CELL	MOUNTING
Notes:	
RCC ROOF (GOOD CONDITIC	DN)
RCC ROOF (BAD CONDITION)
METEL SHEET ROOF (GOOD	CONDITION)
METEL SHEET ROOF (BAD C	ONDITION)
Submitted by	
SHILLONG SMART CITY L	IMITED
IPE GLOBAL LIMITE	D
PROJECT: GRID CONNECTED ROOFTOP SOLA VOLTAIC SYSTEM AT VARIOUS BUI	
R0 16-05-22 HARD COPY REV. DATE DESCRIPTION	A.V. APPROV.
REVISION INDEX	
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR	ROOF
TOP SYSTEM FOR DIRECTOR OF A (POSTAL) - DAP	
TOP SYSTEM FOR DIRECTOR OF A (POSTAL) - DAP	CCOUNT RED :
TOP SYSTEM FOR DIRECTOR OF A (POSTAL) - DAP Date: 16-05-2022 CHECKE	CCOUNT RED : IA J KHARBHIH ED :
TOP SYSTEM FOR DIRECTOR OF A (POSTAL) - DAP	CCOUNT RED : LA J KHARBHIH ED : Q KHAN /ED :
TOP SYSTEM FOR DIRECTOR OF A (POSTAL) - DAP	CCOUNT RED : LA J KHARBHIH ED : Q KHAN /ED :



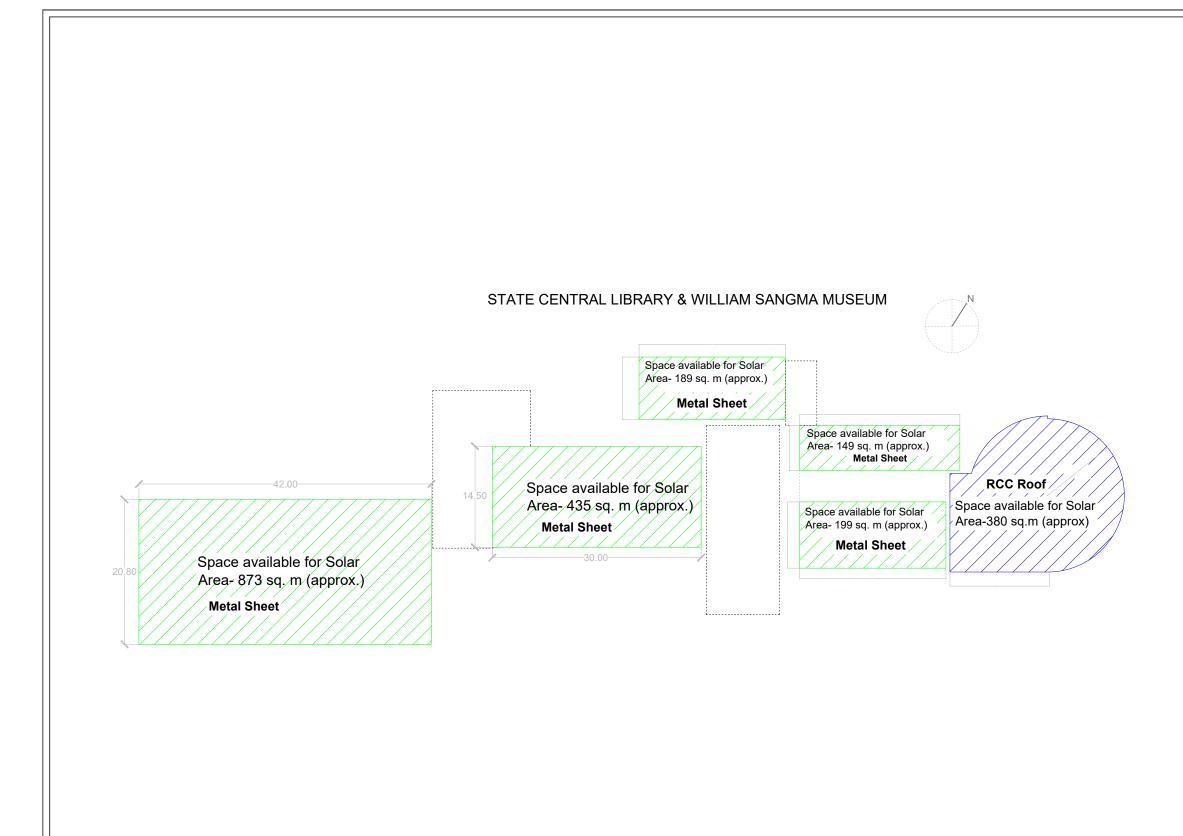
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5%. 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IPAS Protection. 8. The Mounting Structuresteel 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 644, IEC 60502 / IS 1554, Temp range-10 deg.C to 480 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 (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 DISTRICT TRANSPORT OFFICE
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/016 R 0



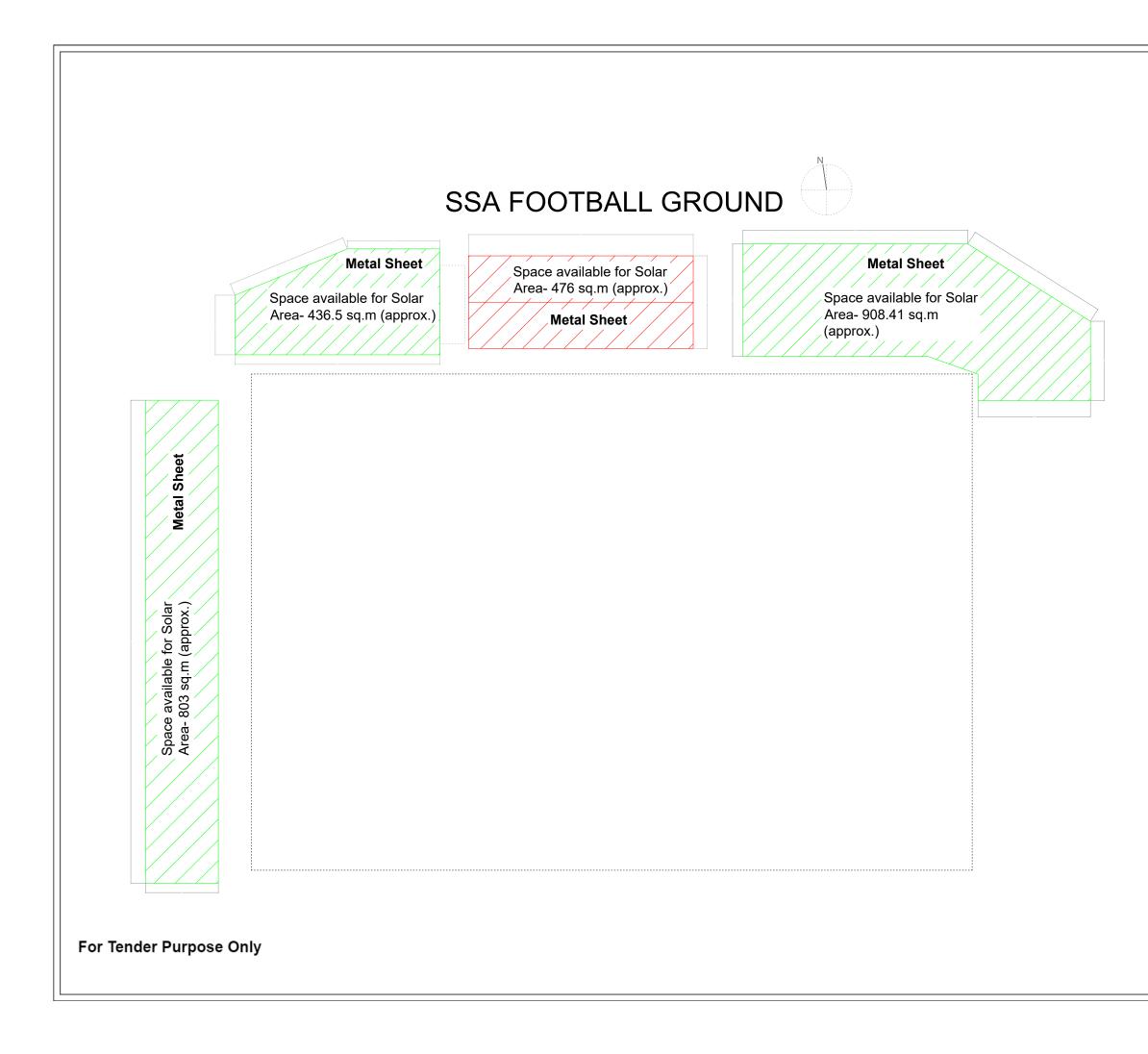
 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Valida: module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 16.5%. Power Conditioning Junit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers. connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 8.3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IPA5 Protection. The Mounting Structuresteel 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
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.
REV. DATE DESCRIPTION APPROV. REVISION INDEX
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR HIGH COURT OF MEGHALAYA
Date: PREPARED :
16-05-2022 CHECKED :
Scale Sheet Size M. MUSHTAQ KHAN NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/017 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 confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1. Solar Phy Modue conversion efficiency shall not be less tha 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 confirm to IEC 60947 Part-1, 2 & 3 and 15 60947 Part-1, 2 & 3. DC DPB's shall have sheet encoses of dust & Vermin proof confirm to IPAS Protection. The Mounting Structuresteel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of latest IS 4759. Coble 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
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 MEGHALAYA PUBLIC SERVICE COMMISSION OFFICE, HORSE SHOE BUILDING
Date: PREPARED : AZEL MESHA J KHARBHIH
16-05-2022 AZEL MESHA J KHARBHIH CHECKED :
16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3
16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHILASH VERMA
16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHLASH VERMA

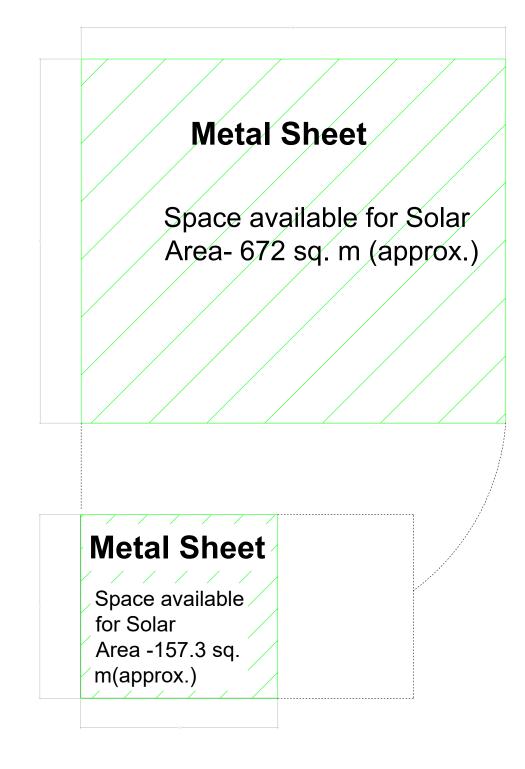


 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 16.5%. Power Conditioning junit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers, connectors shall confirm to IEC 60947 Part-1, 2 & 3 and 15 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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
IPE GLOBAL LIMITED
PROJECT: GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS
R016-05-22HARD COPYA.V.REV.DATEDESCRIPTIONAPPROV.REVISION INDEX
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR STATE CENTRAL LIBRARY, CAPTAIN WILLIAMSON SANGMA STATE MUSEUM
Date: PREPARED : 16-05-2022 AZEL MESHAJ KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3
ABHILASH VERMA REVISION
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/019 R 0



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1	ensions are in meters, it otherwise spe ions are to be read and not to be sc hoto Voltaic module confirming to IS	aled.
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	RCC ROOF (BAD CON	DITION)
	METEL SHEET ROOF (GOOD CONDITION)
	METEL SHEET ROOF (BAD CONDITION)
Submitted I		
SH	ILLONG SMART C	ITY LIMITED
Consultant		
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GRID (VOLT/ R0 REV. REV. DRAV	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CC DATE DESCRIPT SION INDEX	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ R0 REV. REV. DRAV	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CO DATE DESCRIPT SION INDEX VING TITLE: DSED LOCATION FOR S	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ R0 REV. REV. DRAV	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CO DATE DESCRIPT SION INDEX VING TITLE: DSED LOCATION FOR S	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ R0 REV. REV. DRAV	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CC DATE DESCRIP SION INDEX VING TITLE: DSED LOCATION FOR S YSTEM FOR SSA FOOT	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ R0 REV. REV. DRAV	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CO DATE DESCRIP SION INDEX VING TITLE: DSED LOCATION FOR S YSTEM FOR SSA FOOT Date:	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ R0 REV. REV. DRAV	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CC DATE DESCRIP SION INDEX VING TITLE: DSED LOCATION FOR S YSTEM FOR SSA FOOT	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ R0 REV. REVI DRAV PROP(TOP S	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CC DATE DESCRIP SION INDEX VING TITLE: DSED LOCATION FOR S YSTEM FOR SSA FOOT Date: 16-05-2022 Scale Sheet Size NTS A3	P SOLAR PHOTO - JS BUILDINGS
GRID (VOLT/ REV. REV. DRAV PROP(TOP S	JECT: CONNECTED ROOFTOF AIC SYSTEM AT VARIOU 16-05-22 HARD CC DATE DESCRIP SION INDEX VING TITLE: DSED LOCATION FOR S YSTEM FOR SSA FOOT Date: 16-05-2022 Scale Sheet Size	P SOLAR PHOTO - JS BUILDINGS

MEGHALAYA URBAN DEVELOPMENT AUTHORITY COMPLEX



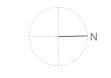
 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1. Solar PP Madue conversion efficiency shall not be less than 16.5%. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers, connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheel encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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
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 MEGHALAYA URBAN DEVELOPMENT AUTHORITY COMPLEX
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : MUSHTAQ KHAN Scale Sheet Size NTS A3
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/021 R 0

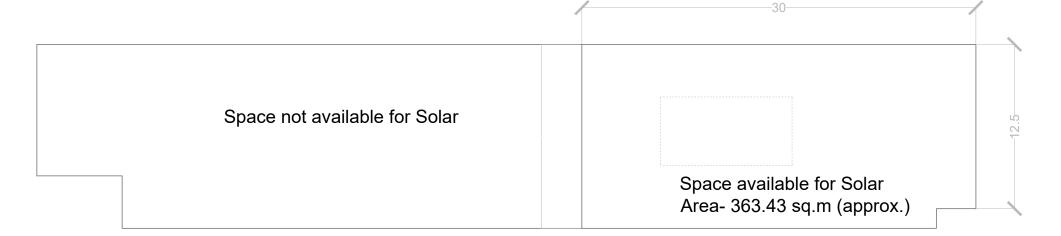
VENDOR'S MARKET, POLO



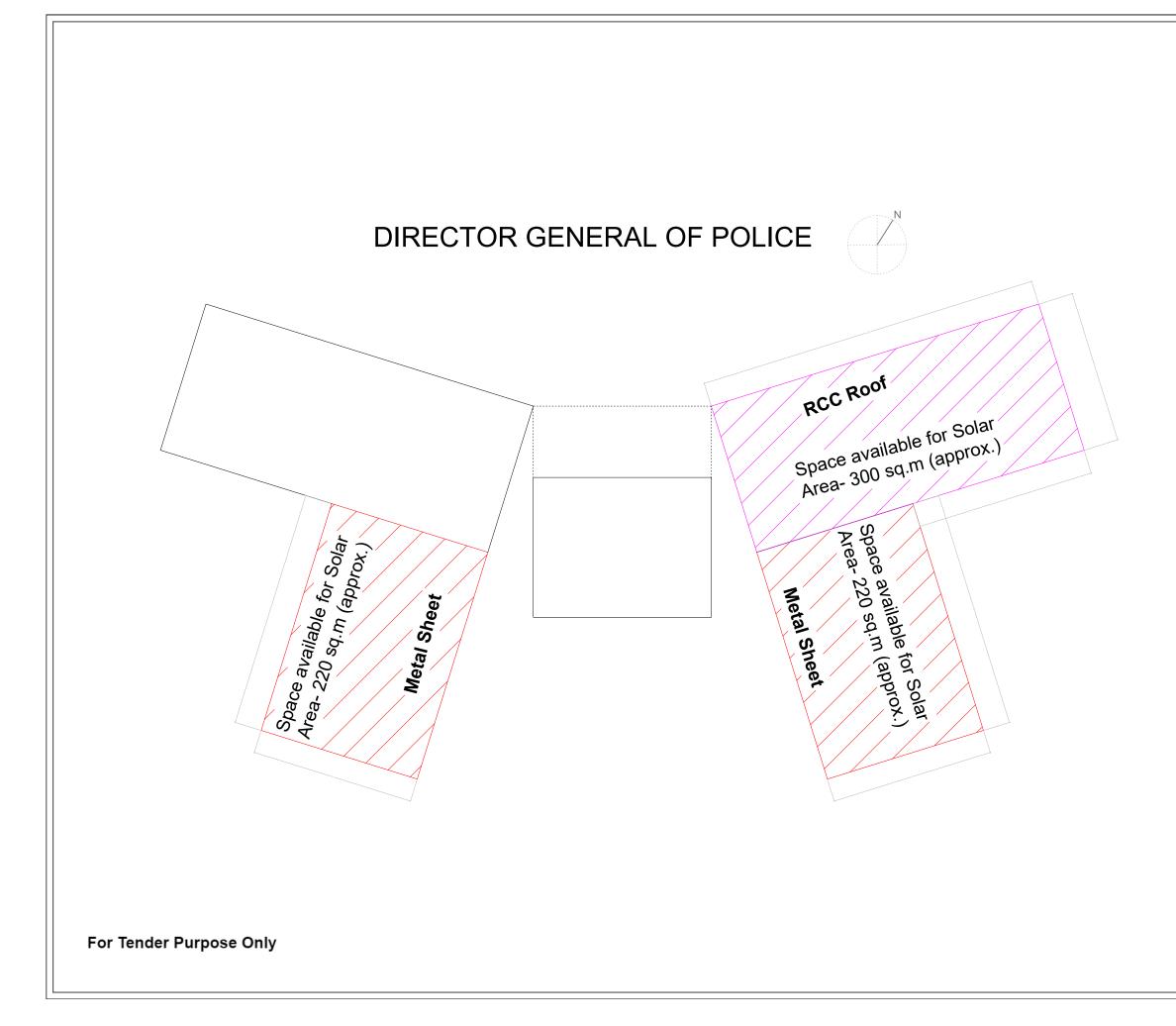
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3. Solar Phot		dule c	onfirming to I		C 61215, IS / IEC
	nditioning Uni	it (PCU			tha 16.5%. 'oltage range and
6. All switche		it brea		tors shall co	nfirm to IEC 60947
				& Vermin p	roof confirm to
8. The Mount	ting Structure				62:1992 & nce of latest IS
4759.					all meet IEC 60227 /
IS 694, IEC	60502 / IS 155	54. Ten	np range-10 d	deg.C to +8	
	SED LOC		ON / ARE		MOUNTING
Notes:	11010-	VOL			
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Submitted by		C A			IMITED
2HIL	LONG	51		, L	
SHIL Consultant					
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PROJE GRID CC VOLTAIC R0 1 REV.	IPE C ECT: DNNECTI C SYSTE 6-05-22 DATE		ROOFTO T VARIO HARD CO		R PHOTO - LDINGS
PROJE GRID CC VOLTAIC	IPE C ECT: DNNECTI C SYSTE 6-05-22 DATE		ROOFTO T VARIO HARD CO		R PHOTO - LDINGS
PROJE GRID CC VOLTAIC R0 1 REV.	IPE (ECT: DNNECTI C SYSTE 6-05-22 DATE ON INI		ROOFTO T VARIO HARD CO SCRIP		R PHOTO - LDINGS
PROJE GRID CC VOLTAIC REV. REVISI	IPE (ECT: DNNECTI C SYSTE 6-05-22 DATE ON INI ON INI SED LOC		COOFTO T VARIO HARD CO SCRIP (: DN FOR	P SOLA US BUI	AR PHOTO - LDINGS A.V. APPROV ROOF
PROJE GRID CC VOLTAIC REV. REVISI DRAWI PROPOS	IPE (ECT: DNNECTI C SYSTE 6-05-22 DATE ON INI ON INI SED LOC		COOFTO T VARIO HARD CO SCRIP (: DN FOR	P SOLA US BUI DPY TION SOLAR S MARK	AR PHOTO - LDINGS A.V. APPROV ROOF ED :
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PROJE GRID CC VOLTAIC REV. REVISI DRAWI PROPOS	IPE C ECT: DNNECTI C SYSTE 6-05-22 DATE ON INI BED LOC STEM FC 16 16 3 3		COOFTO TVARIO HARD CC SCRIP (: DN FOR ENDORS	P SOLA US BUI DPY TION SOLAR S MARK PREPAR AZEL MESHA CHECKE M. MUSHTAN	R PHOTO - LDINGS A.V. A.V. APPROV ED : AJKHARBHIH D : XKHAN ED : ED : ED : ED :
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MBOSE/ MEGHALAYA STATE LAW COMMISSION/ OFFICE OF THE DISTRICT TREASURY OFFICE

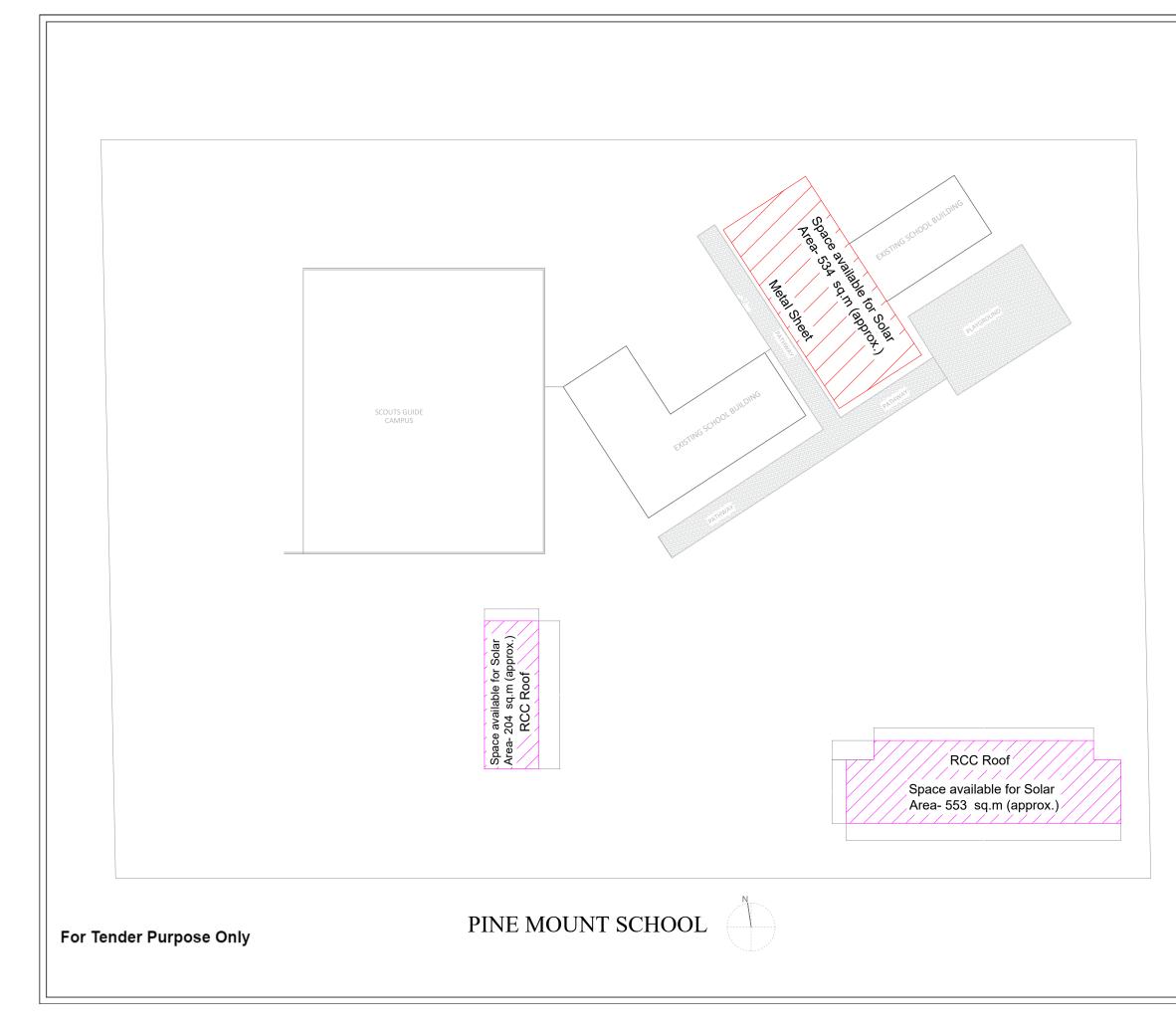




1 All dime	onsions aro in		if otherwise sp	acified	
2. Dimensi 3. Solar Ph	ions are to b	e read ar module c	nd not to be s confirming to I	caled.	C 61215, IS / IEC
4. Solar P 5. Power (/ Modue cor	nversion e Unit (PCI	efficiency shal		tha 16.5%. Oltage range and
6. All swite Part-1, 2	ches & the ci 2 & 3 and IS &	ircuit brea 60947 Par	†-1, 2 &3.		nfirm to IEC 60947 roof confirm to
IP65 Prc 8. The Mo	itection. unting Struct	turesteel s	shall be as per	· latest IS 20	
4759. 9. Cable o IS 694, II	of appropria EC 60502 / IS	te size to 1554. Ter	be used in the mp range-10 c	e system sho deg.C to +8	all meet IEC 60227 /
IE Rules		be provid		10101100000	
	OSED LO		ON / ARE TAIC CE		MOUNTING
Notes	:				
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Submitted b	·	<u> </u>			
		G 21	NAKIC	, Y L	IMITED
SH Consultant					
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PROJ GRID C VOLTA R0	IPE JECT: CONNEC NC SYST		ROOFTO T VARIO HARD CO	P SOLA US BUI	AR PHOTO - LDINGS
PRO GRID 0 VOLTA R0 REV.	IPE JECT: CONNEC IC SYS ⁻¹ 16-05-2 DATE		ROOFTO T VARIO HARD CO ESCRIP	P SOLA US BUI	AR PHOTO - LDINGS
PRO GRID C VOLTA R0 REVIS	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II		ROOFTO T VARIO HARD CO SCRIP	P SOLA US BUI	AR PHOTO - LDINGS
PRO GRID C VOLTA R0 REV. REVIS DRAV PROPC	IPE JECT: CONNEC IC SYS ⁻¹ 16-05-2 DATE SION II VING T SSED LOC	E GLU	ROOFTO T VARIO HARD CI SCRIP K : FOR SOLA	P SOLA US BUI DPY TION R ROOF	AR PHOTO - LDINGS A.V. APPROV
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PRO GRID C VOLTA R0 REVIS DRAV PROPC SYSTE MEGHL EDUCA MEGHL	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II SION II VING T SSED LOC M FOR RE ALAYA BO TION (ME ALAYA BO	E GLU	ROOFTO T VARIO HARD CC ESCRIP X : FOR SOLA L OFFICE (F SECOND W COMMIS	P SOLA US BUI DPY TION R ROOF OF ARY SSION	AR PHOTO - LDINGS A.V. APPROV
PRO GRID C VOLTA R0 REVIS DRAV PROPC SYSTE MEGHL EDUCA MEGHL	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II SION II VING T SSED LOC M FOR RE ALAYA BO TION (ME ALAYA BO	E GLU	ROOFTO T VARIO HARD CO SCRIP K : FOR SOLA L OFFICE + F SECOND	P SOLA US BUI DPY TION R ROOF DF ARY SION JRY OFF PREPAR	AR PHOTO - LDINGS A.V. APPROV TOP
PRO GRID C VOLTA R0 REVIS DRAV PROPC SYSTE MEGHL EDUCA MEGHL	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II SION II VING T SSED LOC M FOR RE ALAYA BO TION (ME ALAYA BO	E GLU	ROOFTO T VARIO HARD CO SCRIP K : FOR SOLA L OFFICE + F SECOND W COMMIS CT TREASI	P SOLA US BUI DPY TION R ROOF DF ARY SION JRY OFF PREPAR	AR PHOTO - LDINGS A.V. APPROV TOP
PRO GRID C VOLTA R0 REVIS DRAV PROPC SYSTE MEGHL EDUCA MEGHL	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II SION II VING T SSED LOC M FOR RE ALAYA BO TION (ME ALAYA BO	E GLU	ROOFTO T VARIO HARD CO SCRIP X : FOR SOLA L OFFICE + F SECOND W COMMIS CT TREASI -2022 Sheet Size	P SOLA US BUI DPY TION R ROOF DF ARY SION JRY OFF PREPAR AZEL MESH- CHECKE M. MUSHTAC	AR PHOTO - LDINGS A.V. APPROV TOP
PRO GRID C VOLTA R0 REVIS DRAV PROPC SYSTE MEGHL EDUCA MEGHL	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II SION II VING T SSED LOC M FOR RE ALAYA BO TION (ME ALAYA BO	E GLU	ROOFTO T VARIO HARD CO SCRIP K : FOR SOLA L OFFICE + F SECOND. W COMMIS CT TREASU	P SOLA US BUI DPY TION R ROOF DF ARY SION JRY OFF PREPAR AZEL MESH CHECKE	AR PHOTO - LDINGS A.V. APPROV TOP
RO REV. REVIS DRAV PROPC SYSTE MEGH. EDUCA MEGH. OFFICI	IPE JECT: CONNEC NC SYS ⁻¹ 16-05-2 DATE SION II SION II VING T SSED LOC M FOR RE ALAYA BO TION (ME ALAYA BO	E GLU	ROOFTO T VARIO HARD CO SCRIP X : FOR SOLA L OFFICE + F SECOND W COMMIS CT TREASI -2022 Sheet Size	P SOLA US BUI DPY TION R ROOF DF ARY SION JRY OFF PREPAR AZEL MESH CHECKE M. MUSHTAL APPROV	AR PHOTO - LDINGS A.V. APPROV TOP



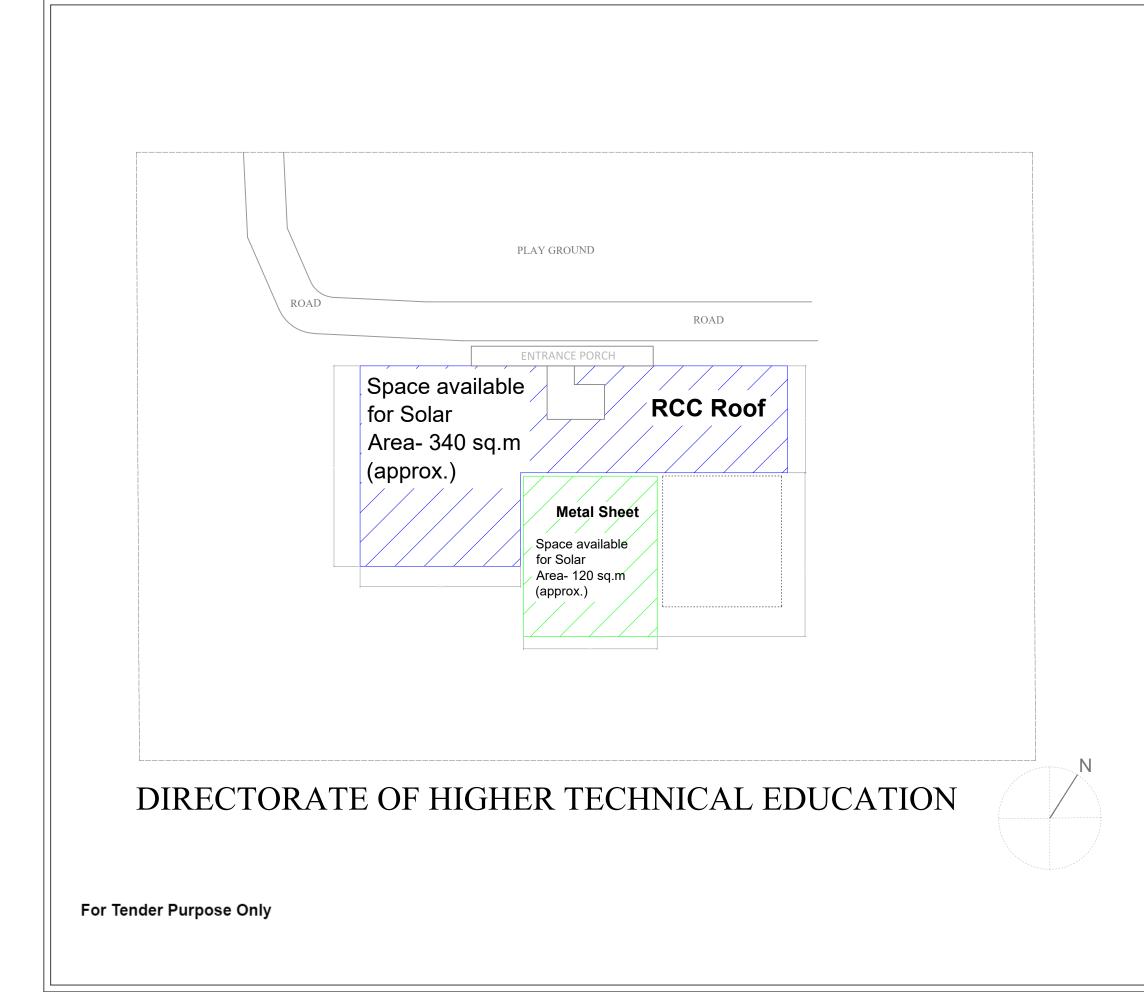
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LEGENDS: PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL				
Notes:				
RCC ROOF (GOOD CONDITION)				
RCC ROOF (BAD CONDITION)				
METEL SHEET ROOF (GOOD CONDITION)				
METEL SHEET ROOF (BAD CONDITION)				
Submitted by				
SHILLONG SMART CITY LIMITED				
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.				
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR OFFICE OF THE DIRECTOR GENERAL OF POLICE				
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHILASH VERMA				
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/024 R 0				



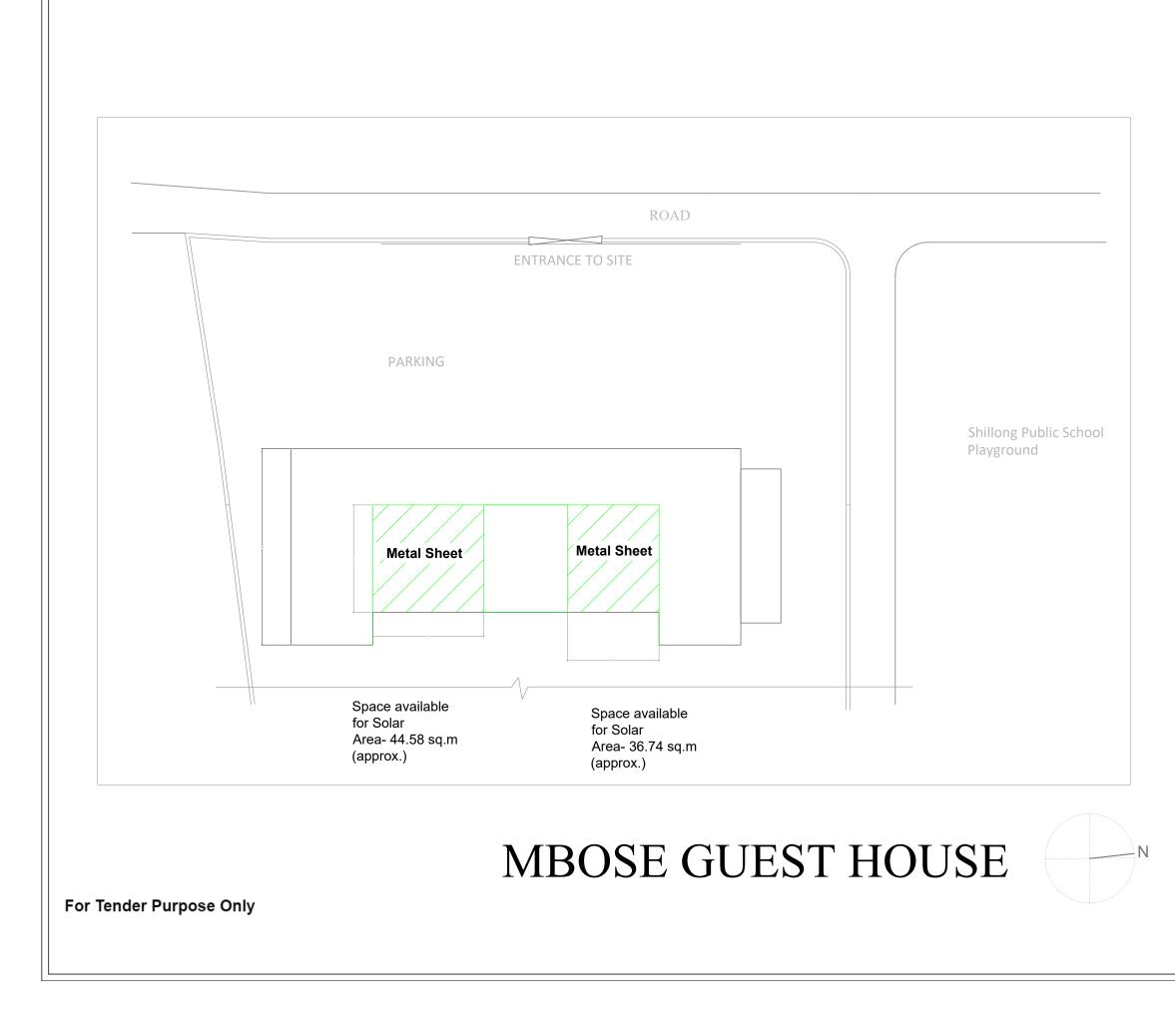
LEGENDS: PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL			
Notes:			
RCC ROOF (GOOD CONDITION)			
RCC ROOF (BAD CONDITION)			
METEL SHEET ROOF (GOOD CONDITION)			
METEL SHEET ROOF (BAD CONDITION)			
Submitted by			
SHILLONG SMART CITY LIMITED			
IPE GLOBAL LIMITED			
PROJECT: GRID CONNECTED 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 PINE MOUNT SCHOOL			
Date: PREPARED : AZEL MESHA J KHARBHIH			
16-05-2022 CHECKED :			
Scale Sheet Size M. MUSHTAQ KHAN NTS A3 APPROVED :			
NTS A3 APPROVED : ABHILASH VERMA			



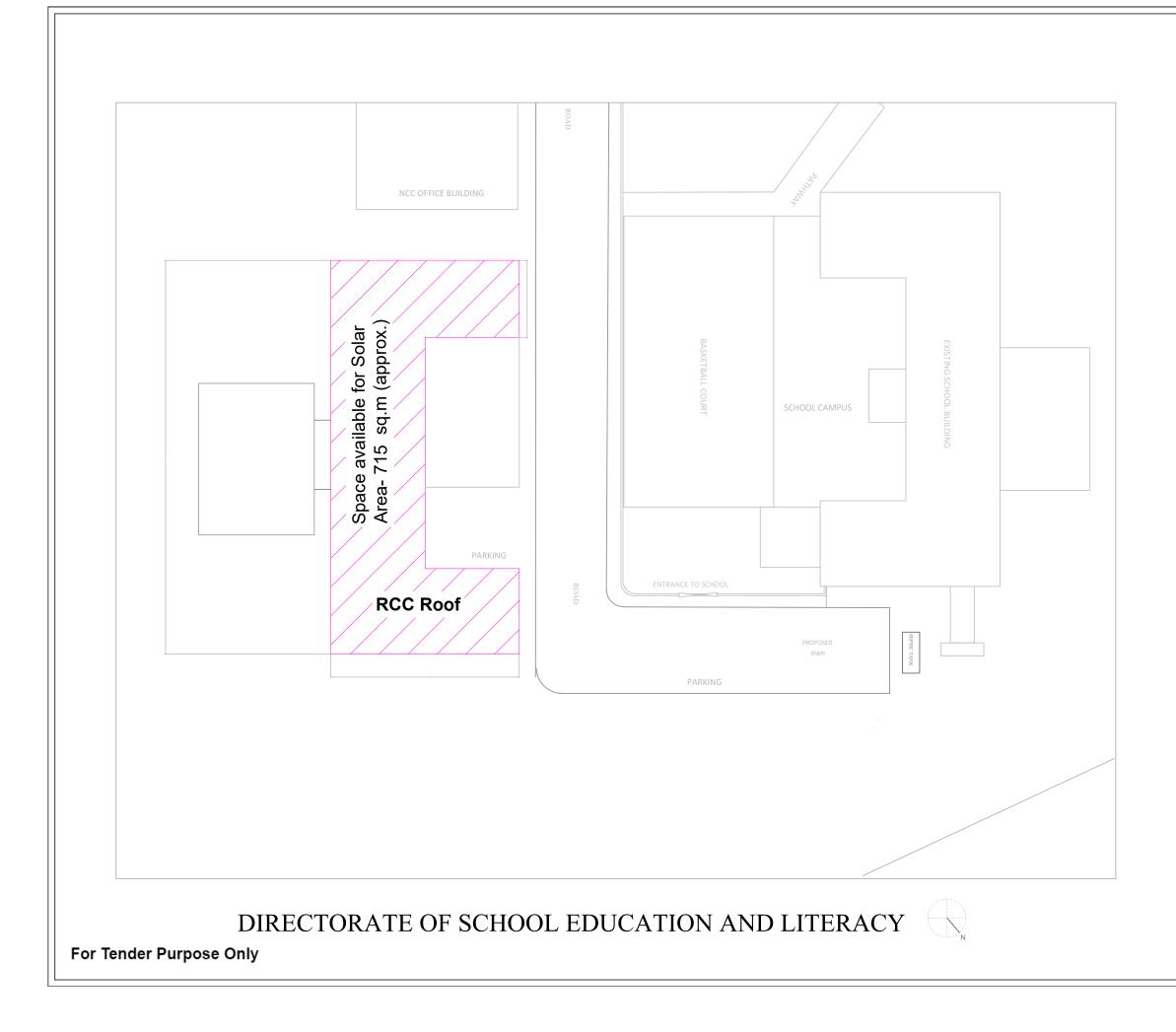
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LEGENDS: PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL				
Notes:				
RCC ROOF (GOOD CONDITION)				
RCC ROOF (BAD CONDITION)				
METEL SHEET ROOF (GOOD CONDITION)				
METEL SHEET ROOF (BAD CONDITION)				
Submitted by				
SHILLONG SMART CITY LIMITED				
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 SHILLONG PUBLIC SCHOOL				
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHILASH VERMA				
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/026				



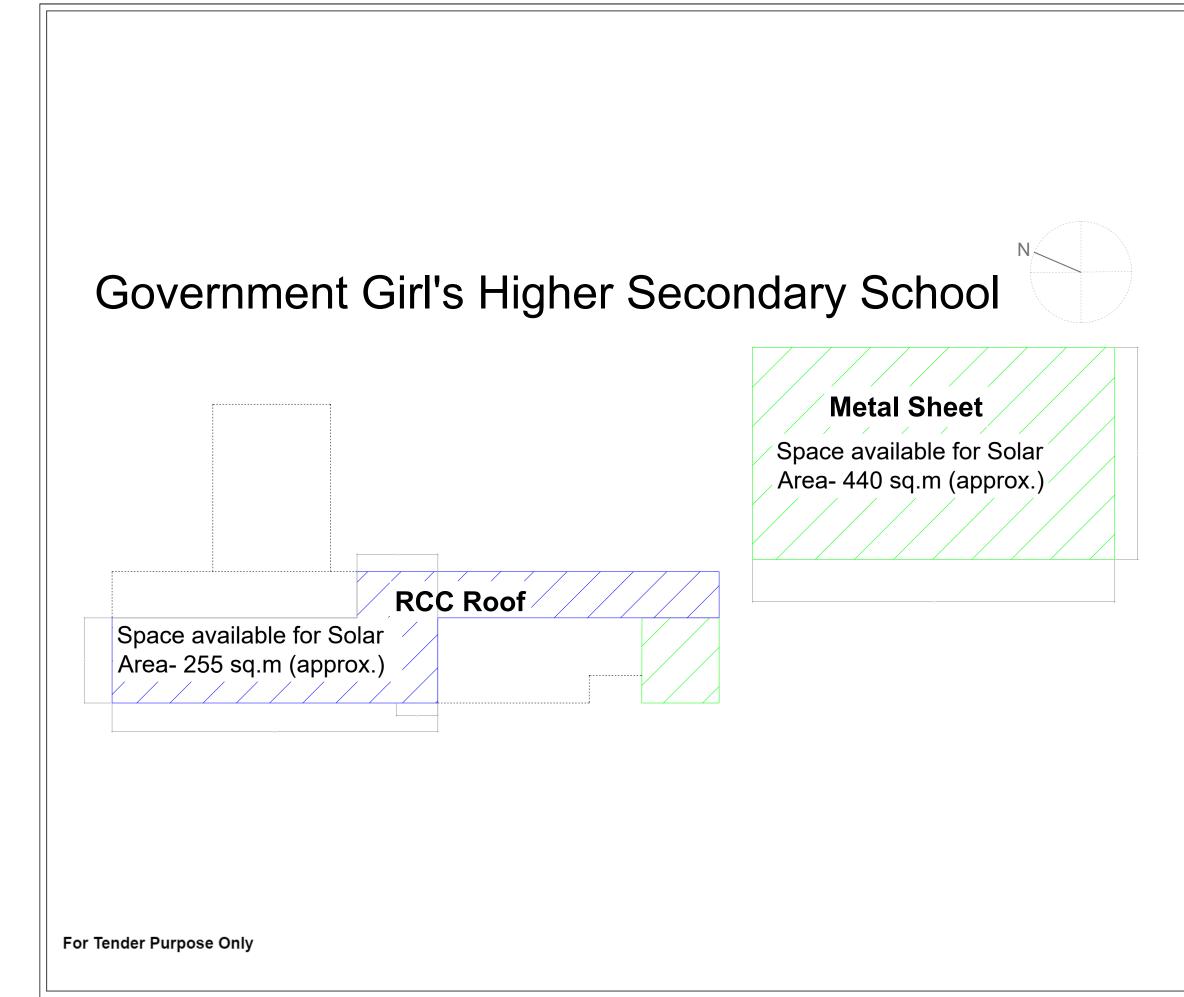
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LEGENDS: PROPOSED LOCATION / AREA FOR MOUNTING SOLAR PHOTO-VOLTAIC CELL
Notes:
RCC ROOF (GOOD CONDITION)
RCC ROOF (BAD CONDITION)
METEL SHEET ROOF (GOOD CONDITION)
METEL SHEET ROOF (BAD CONDITION)
Submitted by
SHILLONG SMART CITY LIMITED
IPE GLOBAL 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 HIGHER TECHNICAL EDUCATION
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size M. MUSHTAQ KHAN APPROVED :
ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/027 R 0



 Dimen Solar F Solar F 1730 Solar F Power 400VA All swit Part-1, DC DP IP65 Pr The Mugalvar 4759. Cable IS 694, 	sions are to b hoto Voltaic Part-1, IS / IEG V Modue co Conditioning (C, 3Ph, 4wire toches & the co 2 & 3 and IS 'B's shall have otection. ounting Struc- nization of the of appropric IEC 60502 / I's er Board shall	the size to 1 s 1554. Terminal to 1 the size to 1	art-2. officiency shall J) of 350-800 \vice transport o	caled. § 14286 / IEC I not be less /DC Input V tors shall co & Vermin p r latest IS 20 all complian deg.C to +8	oltage range and nfirm to IEC 60947 roof confirm to 62:1992 & ice of latest IS ill meet IEC 60227 /
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GRID VOLT, R0 REV. REV. DRAN PROP	JECT: CONNEC AIC SYS 16-05-2 DAT SION I SION I WING T OSED LO	CTED F TEM A 22 E DE NDE CITLE CATIO MBOS Date: 16-05	ROOFTO T VARIO HARD CI SCRIP K : ON FOR E GUES	P SOLA US BUI DPY TION SOLAR T HOUS	AR PHOTO - LDINGS A.V. APPROV. ROOF TOP E ED : LJ KHARBHIH D : 2014AN ED :
GRID VOLT, RO REV. REV. DRAV PROP SYSTE	JECT: CONNEC AIC SYS 16-05 ISION I VING T OSED L EM FOR	CTED F TEM A 22 E DE NDE CATION MBOS Date: 16-05 Scale NTS NO:	ROOFTO T VARIO HARD CI SCRIP K : ON FOR E GUES -2022 Sheet Size	P SOLA US BUI OPY TION SOLAR T HOUS PREPAR AZEL MESH CHECKE M. MUSHTAK APPROV	AR PHOTO - LDINGS A.V. APPROV. ROOF TOP E ED : LJ KHARBHIH D : 2014AN ED :



 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less that 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 (BAD CONDITION)
Submitted by
SHILLONG SMART CITY LIMITED
IPE GLOBAL LIMITED
PROJECT: GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS
R016-05-22HARD COPYA.V.REV.DATEDESCRIPTIONAPPROV.
REVISION INDEX
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR DIRECTORATE OF SCHOOL EDUCATION AND LITERACY
Date: PREPARED : AZEL MESHA J KHARBHIH
16-05-2022 CHECKED :
Scale Sheet Size M. MUSHIAU AHAN NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/029 R 0

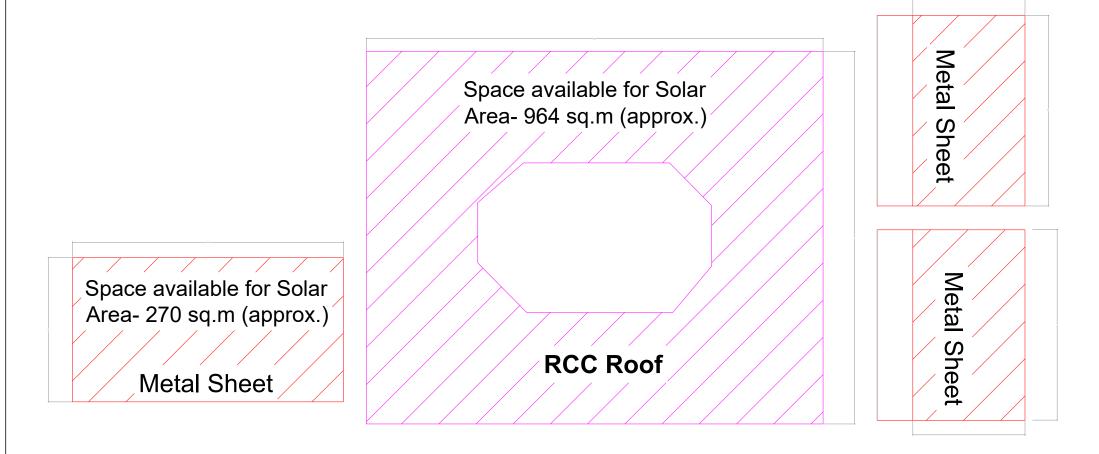


 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1. Solar PV Madue conversion efficiency shall not be less tha 16.5%. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers, connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheel encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 (BAD CONDITION)
Submitted by
SHILLONG SMART CITY LIMITED
Consultant
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 GOVERNMENT GIRL'S HIGHER SECONDARY SCHOOL
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/030 R 0

Government Boy's Higher Secondary School



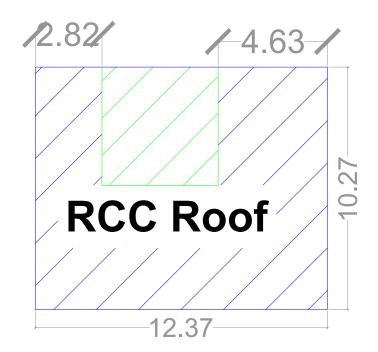
Space available for Solar Area- 148 sq.m (approx.)



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

GENERAL NOT	TES:				
1. All dimensions are in meters, if otherwise specified.					
2. Dimensions are to be read and not to be scaled.					
 Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. 					
4. Solar PV Modue conversion efficiency shall not be less tha 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 confirm to IEC 60947					
Part-1, 2 & 3 and IS 60947 Part-1, 2 &3.					
7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to					
IP65 Protection. 8. The Mounting Structuresteel shall be as per latest IS 2062:1992 &					
galvanization of the mounting structure shall compliance of latest IS					
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 /					
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	OCATION / AREA FOR	WOONTING			
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Notes:					
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METEL	_ SHEET ROOF (BAD CO				
	- OHLET 1000. (
Submitted by					
SHILLON	IG SMART CITY L	IMITED			
Consultant					
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PROJECT:					
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GRID CONNE	STEM AT VARIOUS BUI				
GRID CONNE VOLTAIC SYS	22 HARD COPY	A.V.			
GRID CONNE VOLTAIC SYS	STEM AT VARIOUS BUI	A.V.			
R0 16-05- REV. DAT	22 HARD COPY E DESCRIPTION	A.V.			
GRID CONNE VOLTAIC SYS	22 HARD COPY E DESCRIPTION	A.V.			
R0 16-05- REV. DAT REVISION	22 HARD COPY E DESCRIPTION	A.V.			
R0 16-05- REV. DAT	22 HARD COPY E DESCRIPTION	A.V.			
R0 16-05- REV. DAT REVISION	22 HARD COPY E DESCRIPTION	A.V. APPROV.			
R0 16-05- REV. DAT REVISION	22 HARD COPY E DESCRIPTION INDEX TITLE: .0CATION FOR SOLAR	A.V. APPROV.			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY 22 DESCRIPTION INDEX TITLE: .OCATION FOR SOLAR 3 GOVERNMENT BOY'S	A.V. APPROV.			
R0 16-05- REV. DAT REVISION	22 HARD COPY 22 HARD COPY 22 DESCRIPTION INDEX TITLE: .OCATION FOR SOLAR 3 GOVERNMENT BOY'S	A.V. APPROV.			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY 22 DESCRIPTION INDEX TITLE: .OCATION FOR SOLAR 3 GOVERNMENT BOY'S	A.V. APPROV.			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	AT VARIOUS BUI	A.V. APPROV.			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	AT VARIOUS BUI	A.V. APPROV.			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY 2 DESCRIPTION INDEX TITLE: 0CATION FOR SOLAR 3 GOVERNMENT BOY'S SCHOOL Date: PREPAR 16-05-2022	A.V. APPROV.			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY 22 E DESCRIPTION INDEX TITLE: OCATION FOR SOLAR 2 GOVERNMENT BOY'S SCHOOL Date: PREPAR 16-05-2022 CHECKE	A.V. A.V. APPROV. ROOF TOP HIGHER ED : AJ KHARBHIH D :			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY 2 DESCRIPTION INDEX TITLE: 0CATION FOR SOLAR 3 GOVERNMENT BOY'S SCHOOL Date: 16-05-2022 PREPAR 42EL MESH	A.V. A.V. APPROV. ROOF TOP HIGHER ED : AJ KHARBHIH D :			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY 22 E DESCRIPTION INDEX TITLE: OCATION FOR SOLAR 2 GOVERNMENT BOY'S SCHOOL Date: PREPAR 16-05-2022 CHECKE Scale Sheet Size MAUSTRIA	A.V. A.V. APPROV. ROOF TOP HIGHER ED : AJ KHARBHIH D : 2 KHAN			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	CHECKE STEM AT VARIOUS BUI	A.V. A.V. APPROV.			
GRID CONNE VOLTAIC SYS R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR SECONDARY	22 HARD COPY 22 HARD COPY E DESCRIPTION INDEX INDEX TITLE: OCATION FOR SOLAR GOVERNMENT BOY'S SCHOOL Date: PREPAR 16-05-2022 PREPAR Scale Sheet Size NTS A3	LDINGS			
R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR	22 HARD COPY 22 HARD COPY E DESCRIPTION INDEX INDEX TITLE: OCATION FOR SOLAR GOVERNMENT BOY'S SCHOOL Date: PREPAR 16-05-2022 PREPAR Scale Sheet Size NTS A3	A.V. A.V. APPROV.			
GRID CONNE VOLTAIC SYS R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR SECONDARY DRAWING	Control for solar scale sheet size As a multiple scale	LDINGS			
GRID CONNE VOLTAIC SYS R0 16-05- REV. DAT REVISION DRAWING PROPOSED L SYSTEM FOR SECONDARY DRAWING	22 HARD COPY 22 HARD COPY E DESCRIPTION INDEX INDEX TITLE: OCATION FOR SOLAR GOVERNMENT BOY'S SCHOOL Date: PREPAR 16-05-2022 PREPAR Scale Sheet Size NTS A3	LDINGS			

MEGHALAYA STATE WAREHOUSING CORPORATION

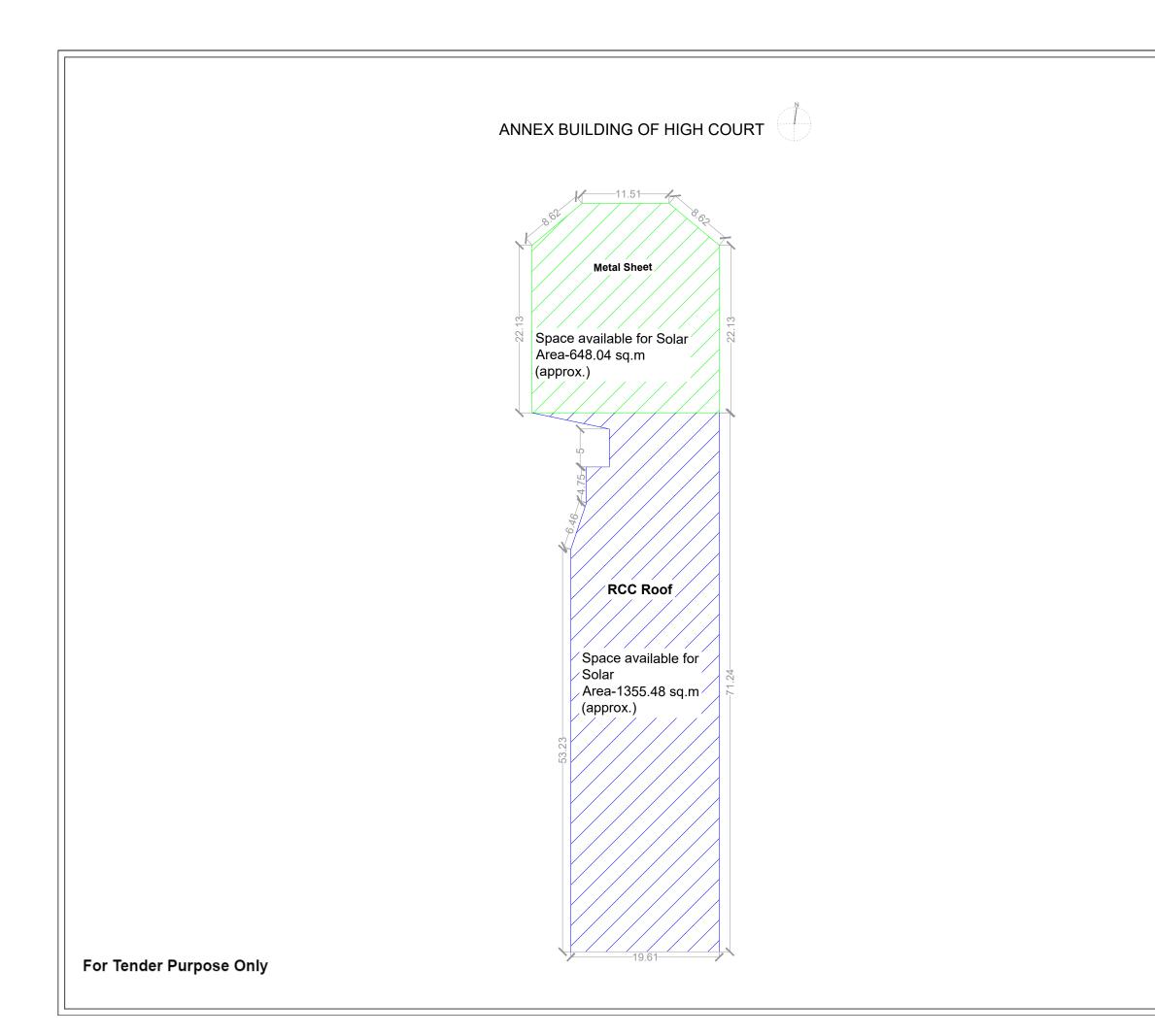


Space available for Solar Area- 88.21 sq. m(approx.)

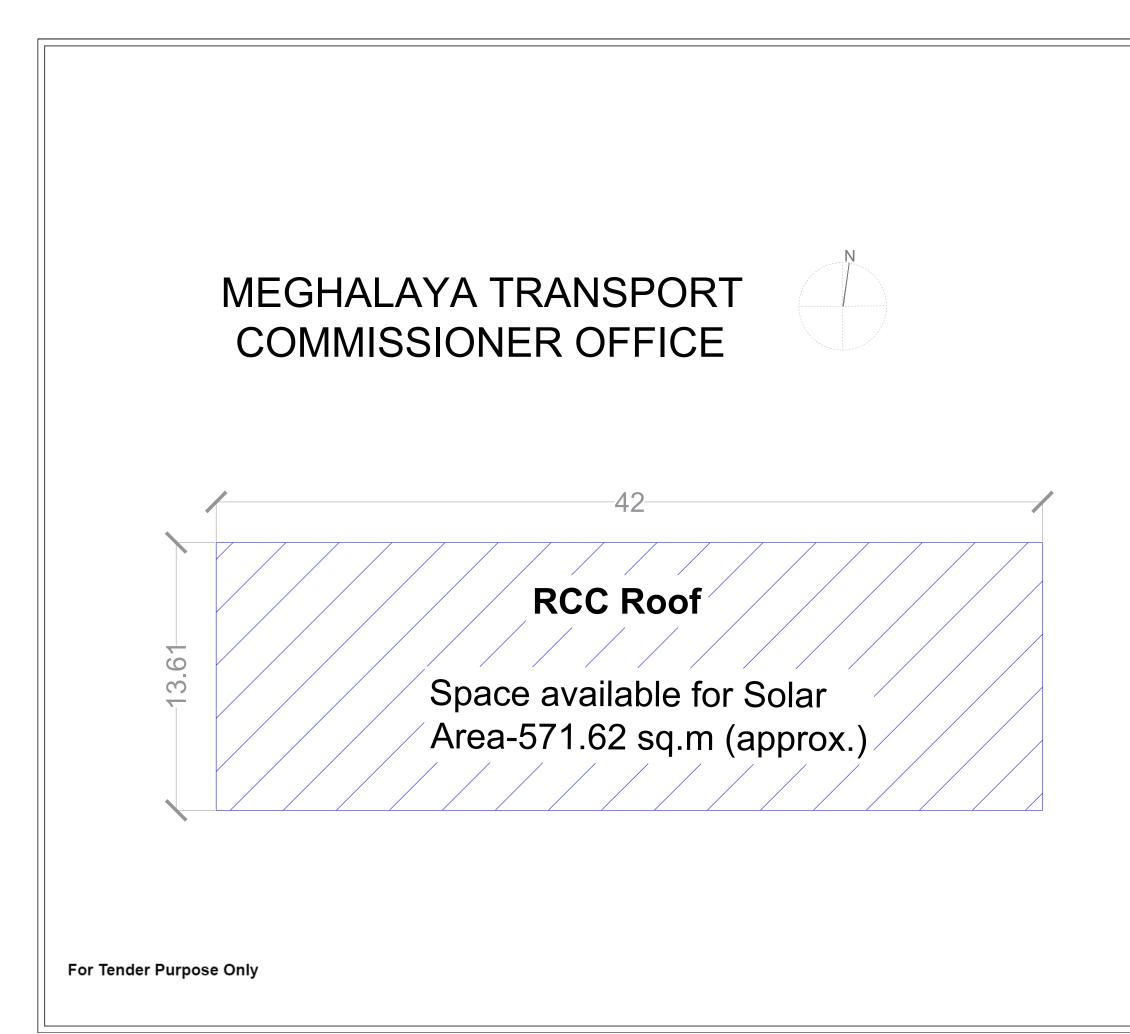
For Tender Purpose Only

 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 confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5%. 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, Soltz. 6. All switches & the circuit breakers, connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. 8. The Mounting Structuresteel 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 60302 / 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
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 MEGHALAYA STATE WAREHOUSING CORPORATION
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED :
Scale Sheet Size M. MUSHTAQ KHAN NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/032 R 0

Ν

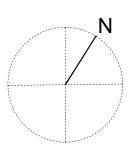


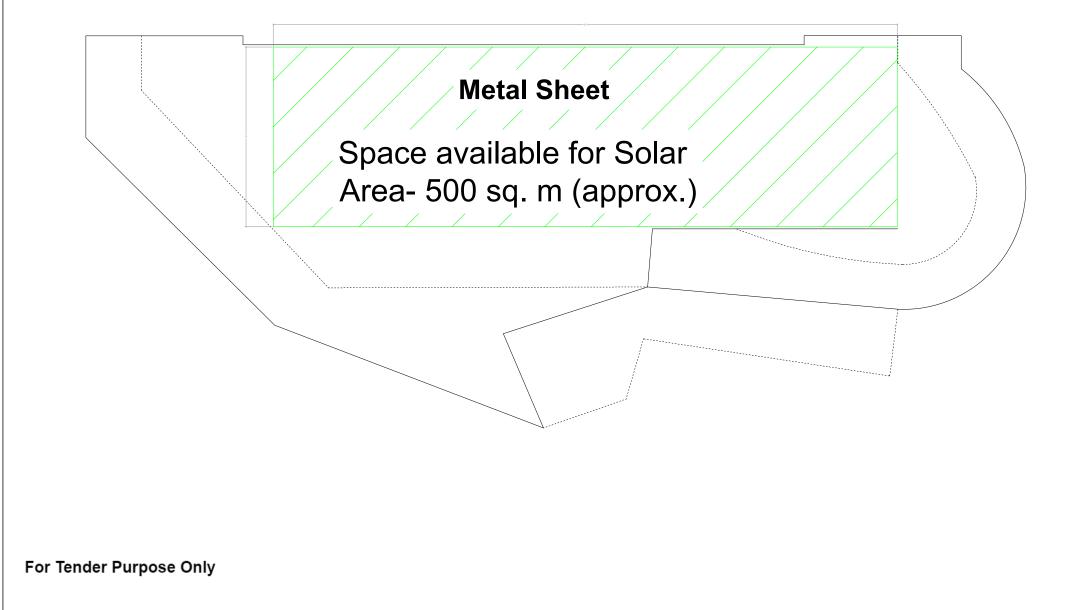
GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS 61730 Part-1, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5% 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage ran conversion efficiency and the conversion efficiency shall not be less tha 16.5% 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage ran	
 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers, connectors shall confirm to EC Part-1, 2 & 3 and 15 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confir IP65 Protection. The Mounting Structuresteel shall be as per latest IS 2062:1992 & galvanization of the mounting structure shall compliance of late: 4759. Cable of appropriate size to be used in the system shall meet IEC 	m to st IS
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 Rules.	
LEGENDS: PROPOSED LOCATION / AREA FOR MOUN SOLAR PHOTO-VOLTAIC CELL	ITING
Notes:	
RCC ROOF (GOOD CONDITION)	
RCC ROOF (BAD CONDITION)	
METEL SHEET ROOF (GOOD CONDI	FION)
METEL SHEET ROOF (BAD CONDITIO	ON)
Submitted by SHILLONG SMART CITY LIMITE	D
Consultant IPE GLOBAL LIMITED	
PROJECT:	
GRID CONNECTED ROOFTOP SOLAR PHC VOLTAIC SYSTEM AT VARIOUS BUILDING	
R0 16-05-22 HARD COPY A	.V.
R0 16-05-22 HARD COPY A REV. DATE DESCRIPTION APP REVISION INDEX	
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF SYSTEM FOR ANNEX BUILDING OF HIGH COURT	ТОР
Date: PREPARED : azel mesha j kharibili	
16-05-2022 CHECKED : Scale Sheet Size M. MUSHTAQ KHAN	
NTS A3 APPROVED : ABHILASH VERMA	
DRAWING NO:	SION
IPE/SSCL/MEG-SH/SOLAR/033	0



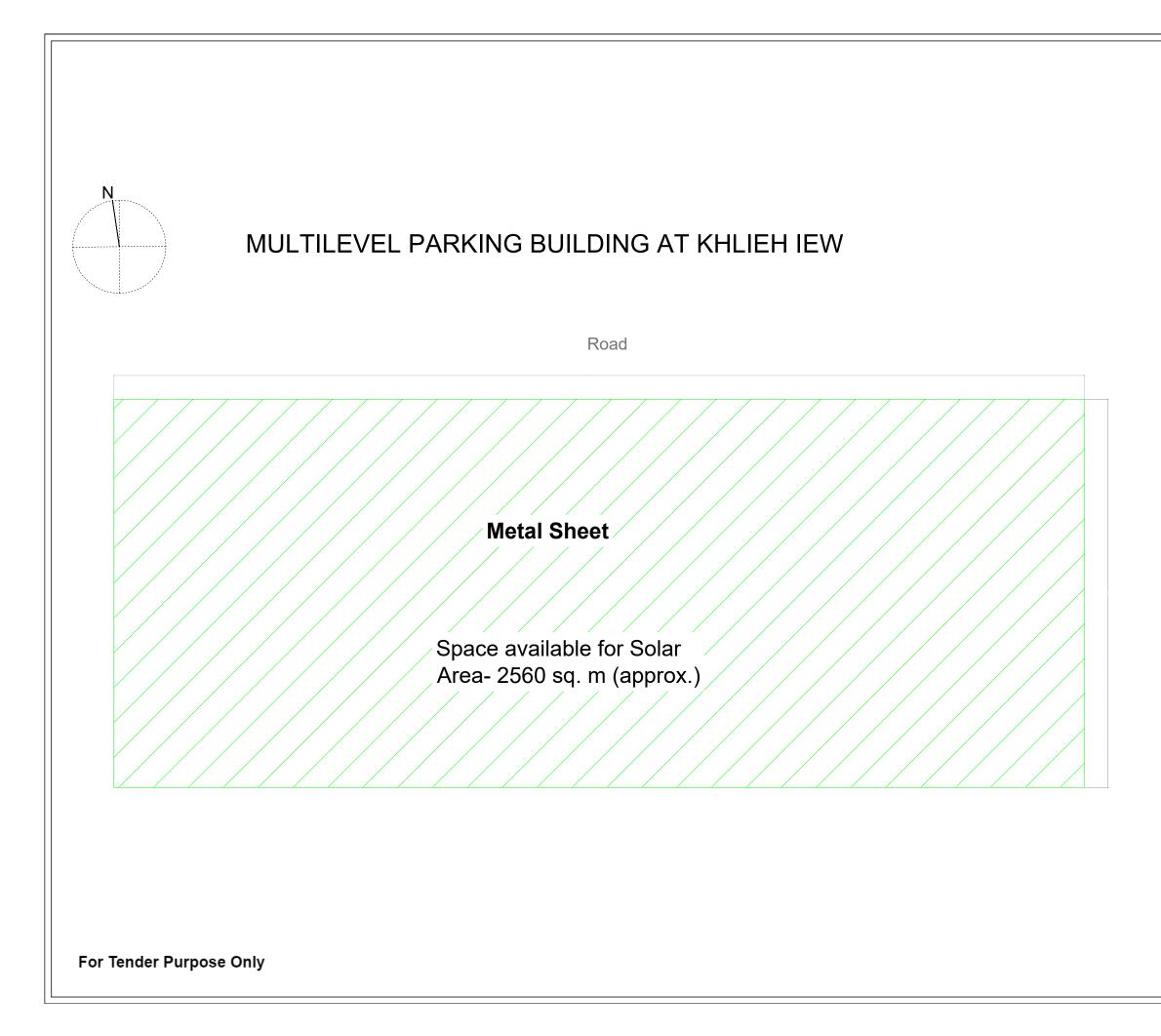
 GENERAL NOTES: 1. All dimensions are in meters, if otherwise specified. 2. Dimensions are to be read and not to be scaled. 3. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less tha 16.5%. 5. Power Conditioning Unit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. 6. All switches & the circuit breakers. connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. 8. The Mounting Structuresteel 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
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 MEGHALAYA TRANSPORT COMMISSIONER OFFICE
Date: PREPARED : AZEL MESHA J KHARBHIH
16-05-2022 CHECKED : Scale Sheet Size M. MUSHTAQ KHAN
NTS A3 APPROVED : ABHILASH VERMA
DRAWING NO:
IPE/SSCL/MEG-SH/SOLAR/034 R 0

MULTILEVEL CAR PARKING AT MOTPHRAN





3. Solar Ph 61730 P		neieis,	if otherwise sp	ecified.		
	noto Voltaic m	nodule d			C 61215, IS / IEC	
		version e	efficiency shal		tha 16.5%. Oltage range and	
400VAC	C, 3Ph, 4wire, 5	50Hz.			nfirm to IEC 60947	
7. DC DPB				& Vermin p	roof confirm to	
	unting Structu		shall be as per g structure sha			
4759.					all 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.						
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Notes	:					
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	RCC RO	OF (BAD CON)	
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Submitted b	у					
_	ILLONG	g si	MART	CITY L	IMITED	
Consultant	IPF	GI	OBAL L	IMITE	D	
PRO	JECT:					
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GRID C VOLTA R0 REV. REVIS	CONNEC AIC SYST		HARD CO	US BUI	LDINGS A.V.	
R0 REV. REVIS	CONNEC AIC SYST 16-05-22 DATE SION IN VING TI DSED LO		HARD CO ESCRIP X : ON FOR	DPY TION SOLAR	A.V. APPROV.	
R0 REV. REVIS	16-05-22 DATE SION IN VING TI DSED LO YSTEM F		HARD CO ESCRIP	DPY TION SOLAR	A.V. APPROV	
R0 REV. REVIS	CONNEC AIC SYST 16-05-22 DATE SION IN VING TI DSED LO YSTEM F LEVEL C		HARD CO ESCRIP X : ON FOR PROPOSE	DPY TION SOLAR	A.V. APPROV.	
R0 REV. REVIS	CONNEC AIC SYST 16-05-22 DATE SION IN VING TI DSED LO YSTEM F -LEVEL C	EM A	HARD CO ESCRIP X : ON FOR PROPOSE	DPY TION SOLAR ED NEW AT MO	A.V. APPROV.	
R0 REV. REVIS	CONNEC INC SYST 16-05-22 DATE SION IN SION IN SED LO YSTEM F LEVEL C	EM A	HARD CO ESCRIP X : ON FOR PARKING -2022 Sheet Size	DPY TION SOLAR AT MO PREPAR AZEL MESH CHECKE M. MUSHTAI	A.V. APPROV. ROOF / TPHRAN ED : axikharabhih D : axikharabhih	
R0 REV. REVIS	CONNEC INC SYST 16-05-22 DATE SION IN SION IN SED LO YSTEM F LEVEL C	EM A	HARD CO ESCRIP X : ON FOR PROPOSE PARKING	DPY TION SOLAR ED NEV AT MO PREPAR AZEL MESH CHECKE	A.V. A.V. APPROV.	
R0 REV. REVIS	CONNEC INC SYST 16-05-22 DATE SION IN SION IN SED LO YSTEM F LEVEL C	EM A	HARD CO ESCRIP X : ON FOR PARKING -2022 Sheet Size	DPY TION SOLAR ED NEW AT MO PREPAR AZEL MESH CHECKE M. MUSHTAI APPROV	A.V. A.V. APPROV.	



 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 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 confirm to IEC 60947 Part-1, 2 & 3 and 15 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IPAS Protection. The Mounting Structuresteel 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						
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.						
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR EXISTING MULTILEVEL PARKING BUILDING AT KHLIEH IEW						
Date: PREPARED :						
16-05-2022 CHECKED :						
Scale Sheet Size M. MUSHTAQ KHAN NTS A3 APPROVED : ABHILASH VERMA						
DRAWING NO:						
IPE/SSCL/MEG-SH/SOLAR/036 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 confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1. Solar PV Modue conversion efficiency shall not be less tha 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 Donger 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					
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 EXISTING MULTILEVEL PARKING BUILDING AT MOWLONGHAT Date: 16-05-2022 Scale Sheet Size M. MUSHTAQ KHAN					
NTS A3 APPROVED : ABHILASH VERMA					
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/037 R 0					

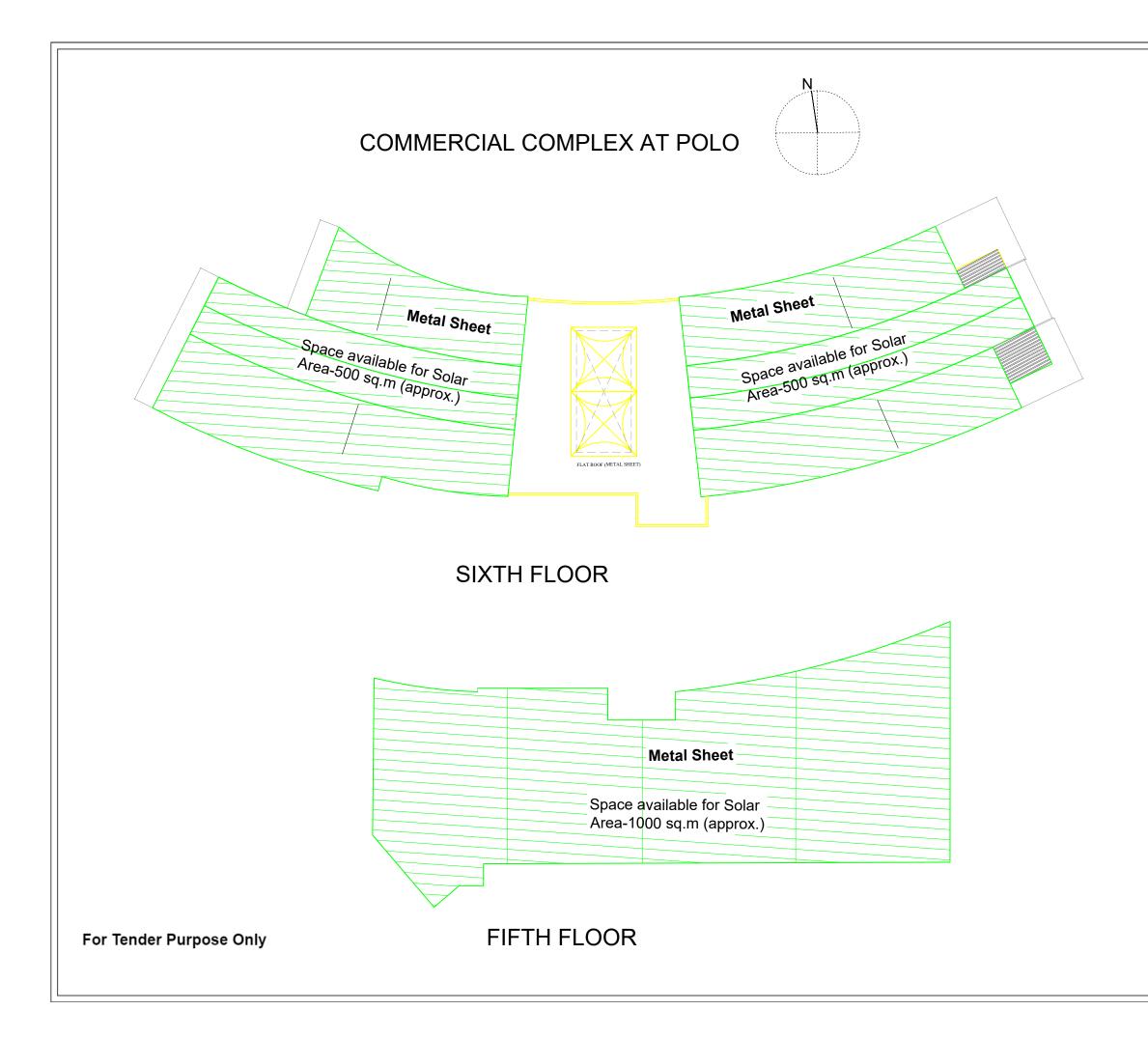
MULTILEVEL PARKING BUILDING OPPOSITE ANJALEE GALLERIA



Metal Sheet

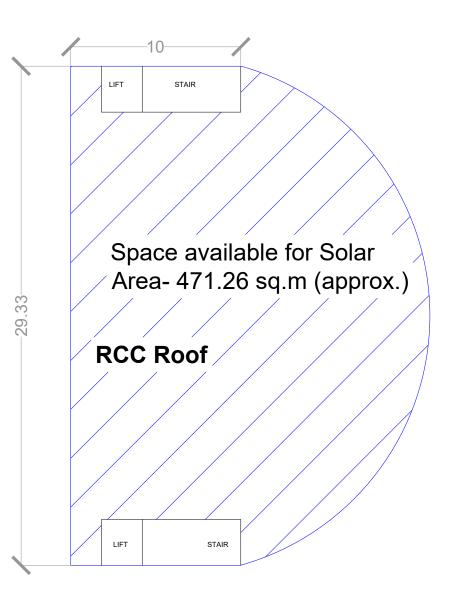
Space available for Solar Area- 2400 sq. m (approx.)

 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Pholo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less tha 16.5%. Power Conditioning funit (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers. connectors shall confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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						
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 EXISTING MULTILEVEL PARKING BUILDING OPPOSITE TO ANJALEE GALLERIA						
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3 APPROVED : ABHILASH VERMA						
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/038 R 0						



 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 confirming to IS 14286 / IE 61730 Part-1, IS / IEC 61730 Part-2. 4. Solar PV Modue conversion efficiency shall not be less 5. Power Conditioning Unit (PCU) of 350-800 VDC Input 400VAC, 3Ph, 4wire, 50Hz. 6. All switches & the circuit breakers, connectors shall co Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. 7. DC DPB's shall have sheet encosers of dust & Vermin p IP65 Protection. 8. The Mounting Structuresteel shall be as per latest IS 20 galvanization of the mounting structure shall complia 4759. 9. Cable of appropriate size to be used in the system shi IS 694, IEC 60502 / IS 1554. Temp range-10 deg.C to +6 10. Danger Board shall be provided as and where neces IE Rules. 	s tha 16.5%. Voltage range and onfirm to IEC 60947 proof confirm to 062:1992 & nce of latest IS all meet IEC 60227 / 30 Deg, C					
LEGENDS: PROPOSED LOCATION / AREA FOR SOLAR PHOTO-VOLTAIC CELL	R MOUNTING					
Notes:						
RCC ROOF (GOOD CONDITION)						
RCC ROOF (BAD CONDITION	RCC ROOF (BAD CONDITION)					
METEL SHEET ROOF (BAD CONDITION)						
Submitted by						
SHILLONG SMART CITY L	IMITED					
IPE GLOBAL LIMITE	D					
PROJECT: GRID CONNECTED ROOFTOP SOLA VOLTAIC SYSTEM AT VARIOUS BUI						
R0 16-05-22 HARD COPY REV. DATE DESCRIPTION	A.V.					
REVISION INDEX	7.111.000.					
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR TOP SYSTEM FOR PROPOSED CON COMPLEX AT POLO						
16-05-2022 CHECKE Scale Sheet Size NTS A3	ia j kharbhih ED : .Q khan /ED :					
ABHILASH	REVISION					
DRAWING NO: IPE/SSCL/MEG-SH/SOLAR/039	R 0					

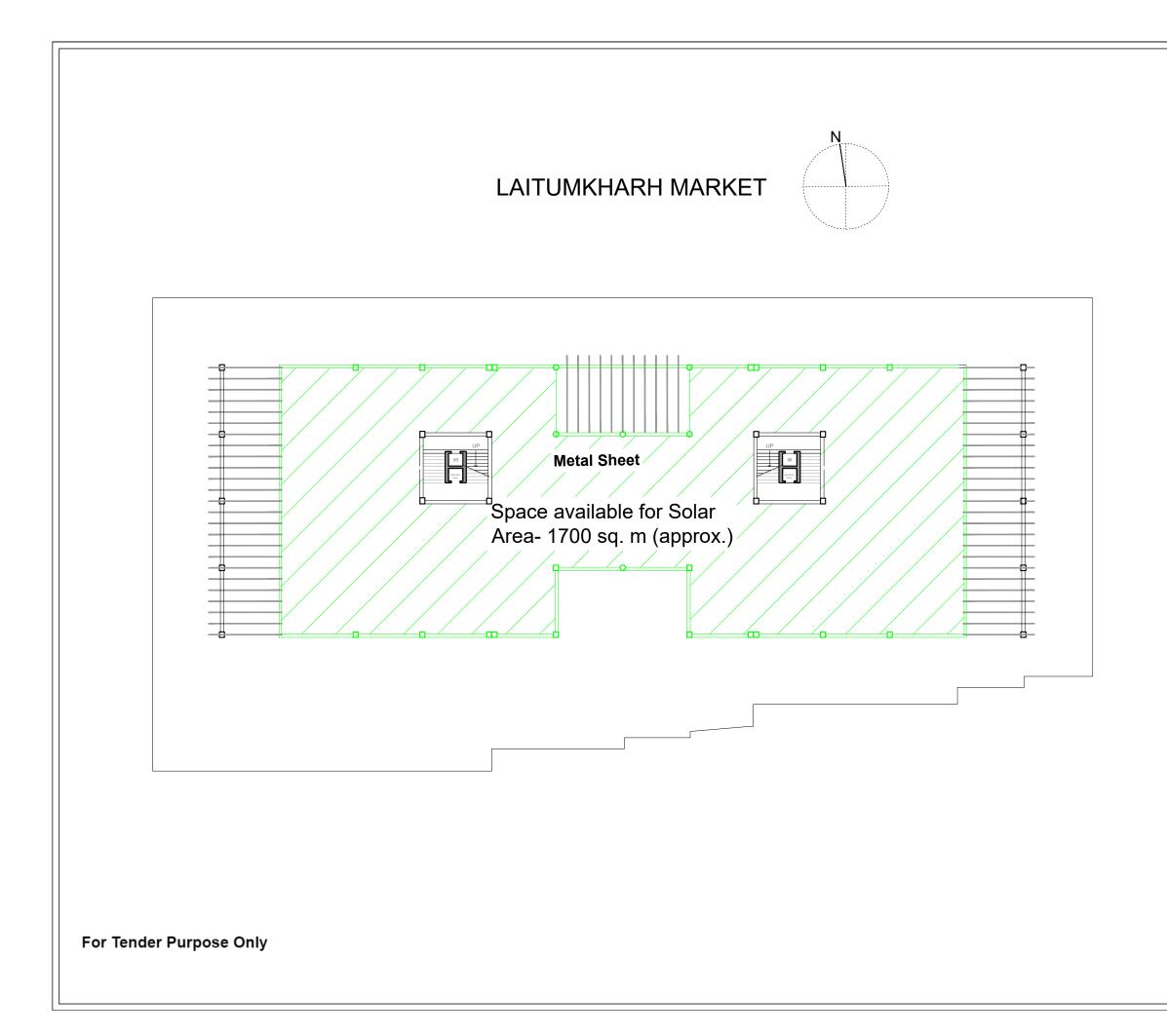
INTEGRATED COMMAND AND CONTROL CENTRE



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 confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1, IS / IEC 61730 Part-2. Solar PV Modue conversion efficiency shall not be less that 16.5%. Power Conditioning built (PCU) of 350-800 VDC Input Voltage range and 400VAC, 3Ph, 4wire, 50Hz. All switches & the circuit breakers. connectors shall confirm to IEC 60947 Part-1, 2 & 3 and 16 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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 (BAD CONDITION)					
Submitted by					
SHILLONG SMART CITY LIMITED					
IPE GLOBAL LIMITED					
PROJECT: GRID CONNECTED ROOFTOP SOLAR PHOTO - VOLTAIC SYSTEM AT VARIOUS BUILDINGS					
R016-05-22HARD COPYA.V.REV.DATEDESCRIPTIONAPPROV.REVISION INDEX					
DRAWING TITLE: PROPOSED LOCATION FOR SOLAR ROOF TOP SYSTEM FOR PROPOSED BUILDING FOR INTEGRATED COMMAND AND CONTROL CENTRE (ICCC)					
Date: PREPARED : 16-05-2022 AZEL MESHA J KHARBHIH CHECKED : CHECKED : Scale Sheet Size NTS A3					
DRAWING NO:					
IPE/SSCL/MEG-SH/SOLAR/040 R 0					

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 GENERAL NOTES: All dimensions are in meters, if otherwise specified. Dimensions are to be read and not to be scaled. Solar Photo Voltaic module confirming to IS 14286 / IEC 61215, IS / IEC 61730 Part-1. Solar PV Madue conversion efficiency shall not be less tha 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 confirm to IEC 60947 Part-1, 2 & 3 and IS 60947 Part-1, 2 & 3. DC DPB's shall have sheet encosers of dust & Vermin proof confirm to IP65 Protection. The Mounting Structuresteel 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					
IPE GLOBAL LIMITED					
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 PROPOSED LAITUMKHRAH MARKET					
TOP SYSTEM FOR PROPOSED LAITUMKHRAH MARKET					
TOP SYSTEM FOR PROPOSED LAITUMKHRAH MARKET Date: PREPARED : AZEL MESHA J KHARBHIH CHECKED :					
TOP SYSTEM FOR PROPOSED LAITUMKHRAH MARKET Date: PREPARED : 16-05-2022 PREPARED : AZEL MESHA J KHARBHIH CHECKED : M. MUSHTAQ KHAN APPROVED :					
TOP SYSTEM FOR PROPOSED LAITUMKHRAH MARKET Date: PREPARED : AZEL MESHA J KHARBHIH CHECKED : Scale Sheet Size M. MUBIC/VED :					