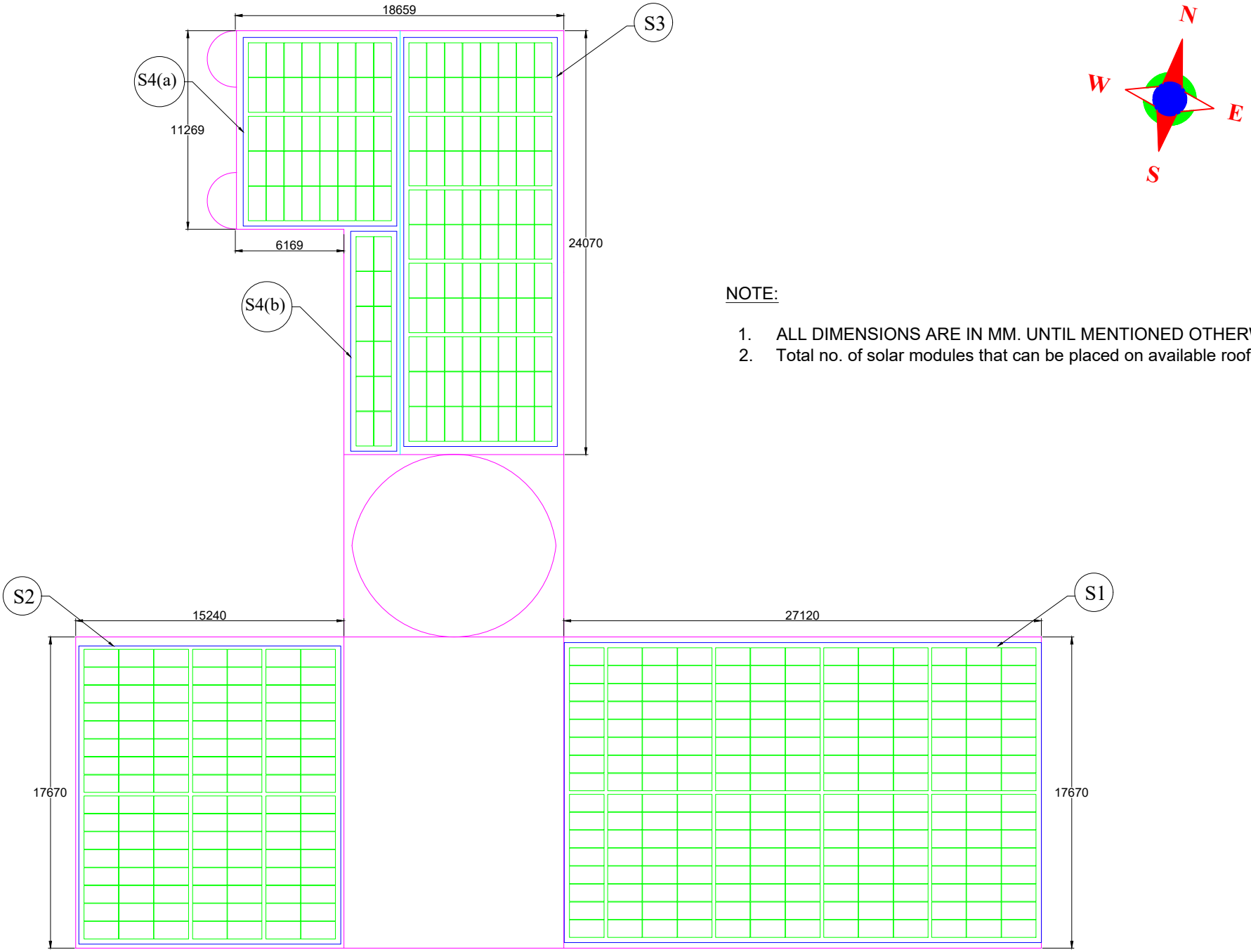
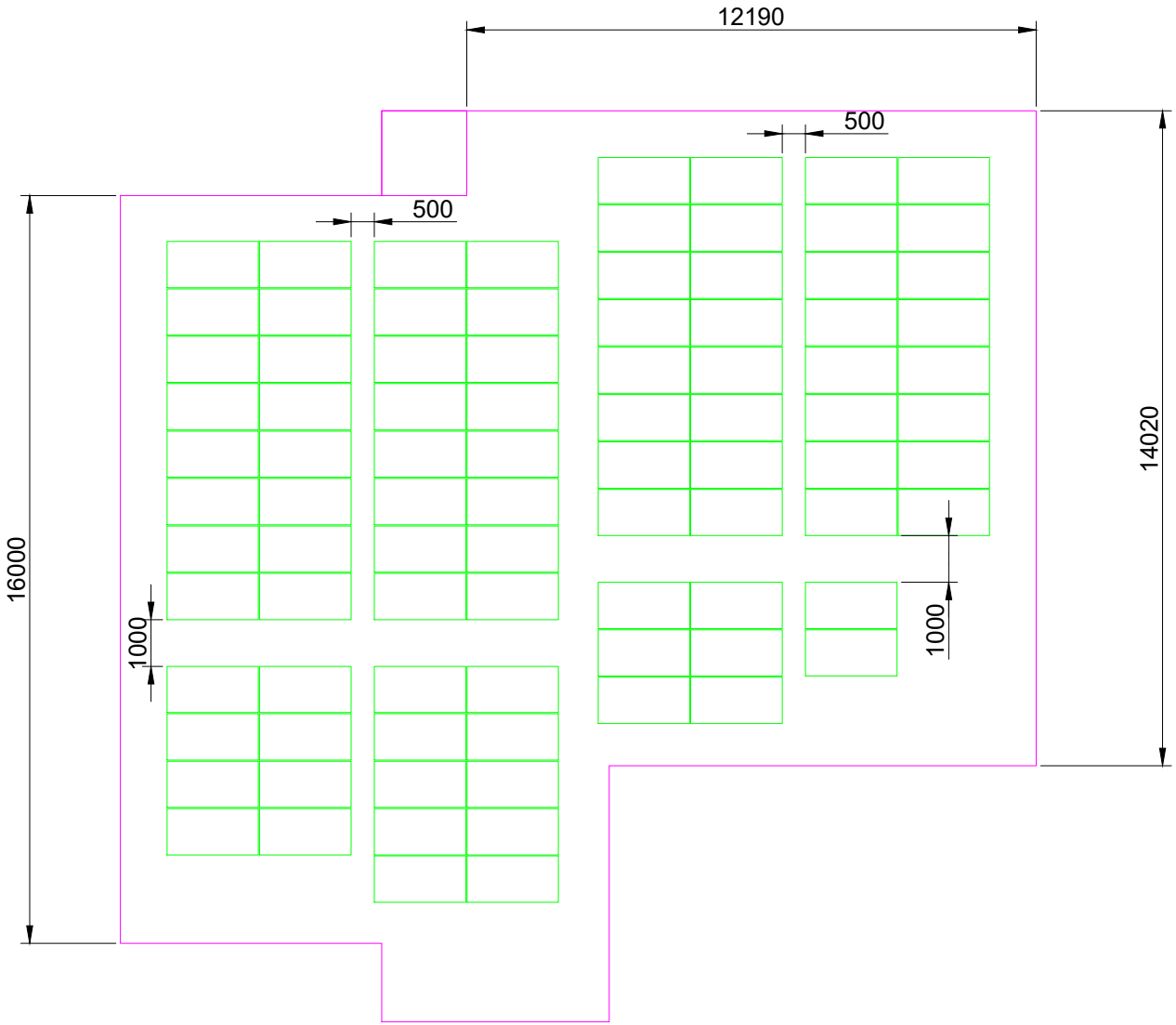
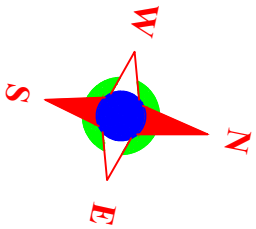


NOTE:

1. ALL DIMENSIONS ARE IN MM. UNTIL MENTIONED OTHERWISE.
2. Total no. of solar modules that can be placed on available roof area - 459nos.

PROJECTION		DRAWN	S V D		TITLE : ARRAY LAYOUT PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 31/10/2020
SCALE	NTS	CHECKED	G S S		PROJECT : SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER : M/s Bank Of Maharastra, Lokmangal, Pune.	DWG. NO. AGEPL/RT/BOM/ALP/R1	PAGE NO : 1 OF 1



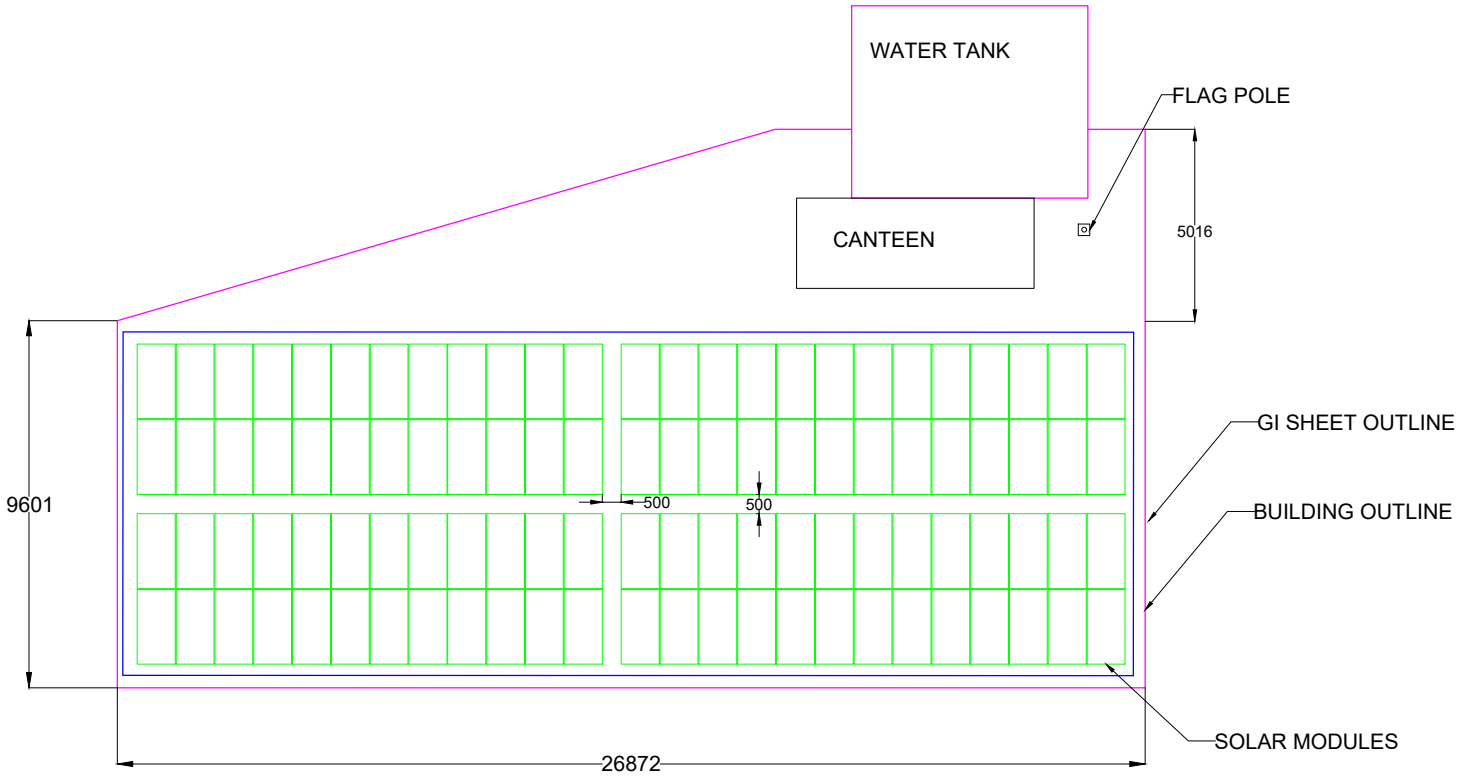


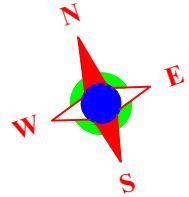
Bnk. of Mh.,Bajirao road, Pune

NO. OF MODULES	- 90
STRING SIZE	- 18 modules
NO. OF STRINGS	- 5
MODULE CAPACITY	- 335Wp, Poly
PLANT CAPACITY	- 30.15 kWp

PROJECTION		DRAWN	S V D		TITLE :	ARRAY LAYOUT PLAN	
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Bajirao Road, Pune	

ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.		DATE :	27/03/2020
DWG. NO.	AGEPL/RT/BOM_BJR/ALP/R1	PAGE NO :	1 OF 1





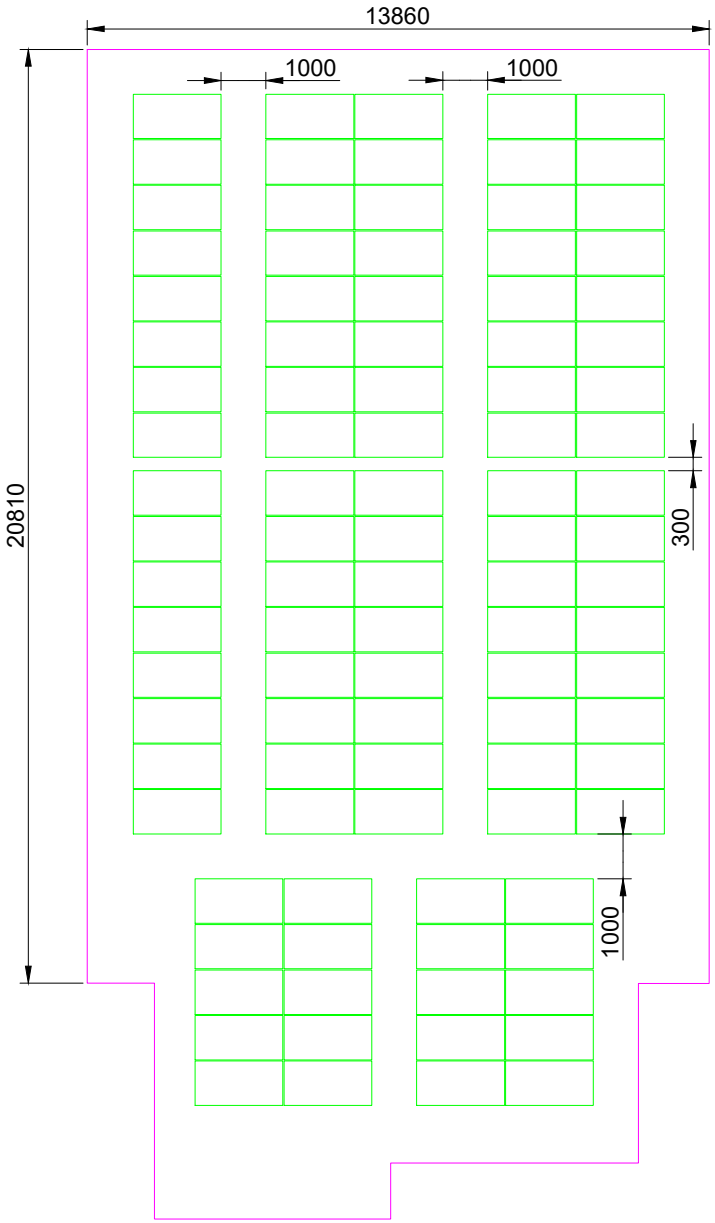
BANK OF MAHARASHTRA, F.C.ROAD, PUNE

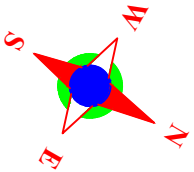
NO. OF MODULES - 100
STRING SIZE - 20 modules
NO. OF STRINGS - 5
MODULE CAPACITY - 335Wp, Poly
PLANT CAPACITY - 33.5 kWp

NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. THE HEIGHT OF SUPER-STRUCTURE IS CONSIDERED 12FT. FROM ROOF SURFACE WITH AN INCLINATION OF 16°.

PROJECTION		DRAWN	S V D		TITLE :	ARRAY LAYOUT PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 27/03/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, FC Road, Pune	DWG. NO. AGEPL/RT/BOM_FC/ALP/R1	PAGE NO : 1 OF 1

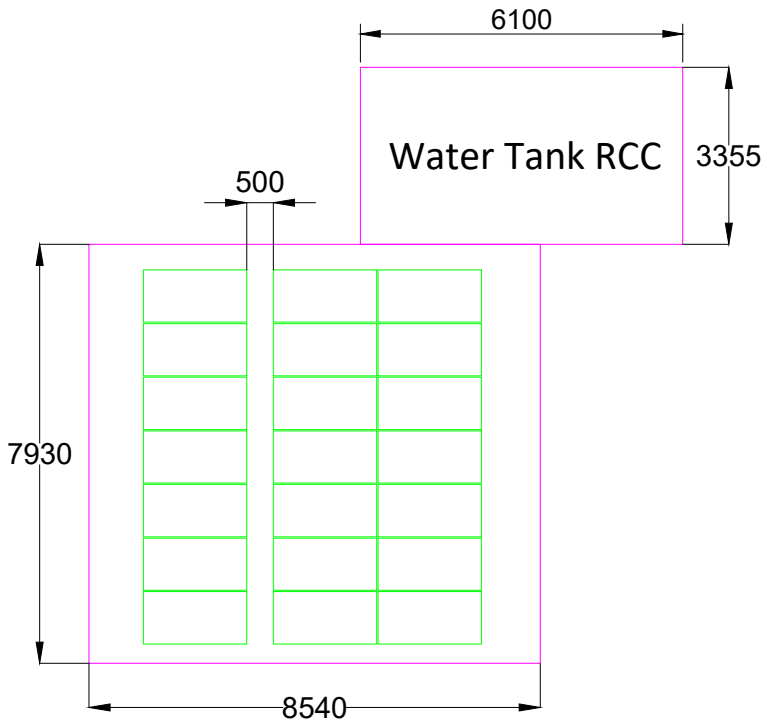


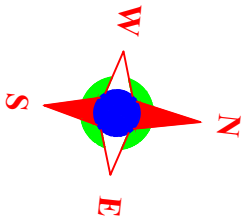


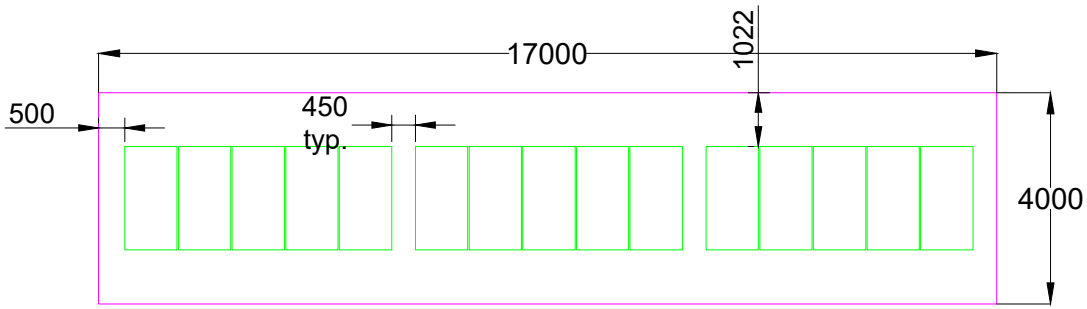
Bnk. of Mh.,Hadapsar, Pune

NO. OF MODULES - 100
STRING SIZE - 20 modules
NO. OF STRINGS - 5
MODULE CAPACITY - 335Wp, Poly
PLANT CAPACITY - 33.5 kWp

PROJECTION		DRAWN	S V D		TITLE :	ARRAY LAYOUT PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 27/03/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra,Hadapsar, Pune	DWG. NO. AGEPL/RT/BOM_HDP/ALP/R1	PAGE NO : 1 OF 1







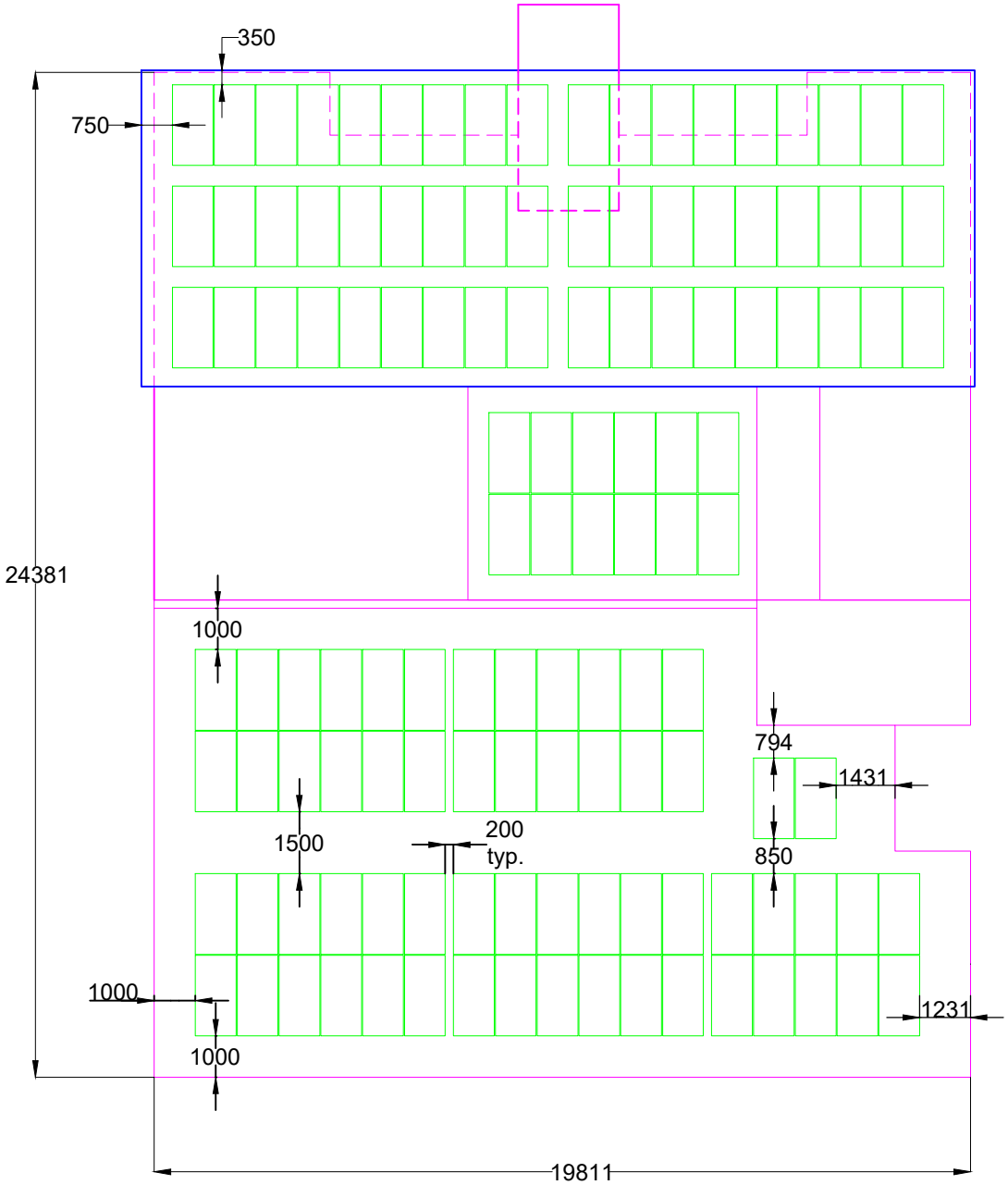
Bnk. of Mh.,Kothrud, Pune

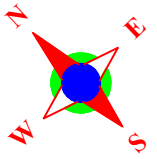
NO. OF MODULES	- 36
STRING SIZE	- 18 modules
NO. OF STRINGS	- 2
MODULE CAPACITY	- 335Wp, Poly
PLANT CAPACITY	- 12.06 kWp

PROJECTION		DRAWN	S V D		TITLE :	ARRAY LAYOUT PLAN	
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Kothrud, Pune	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DWG. NO.	AGEPL/RT/BOM_KTD/ALP/R1	DATE :	27/03/2020
		PAGE NO :	1 OF 1



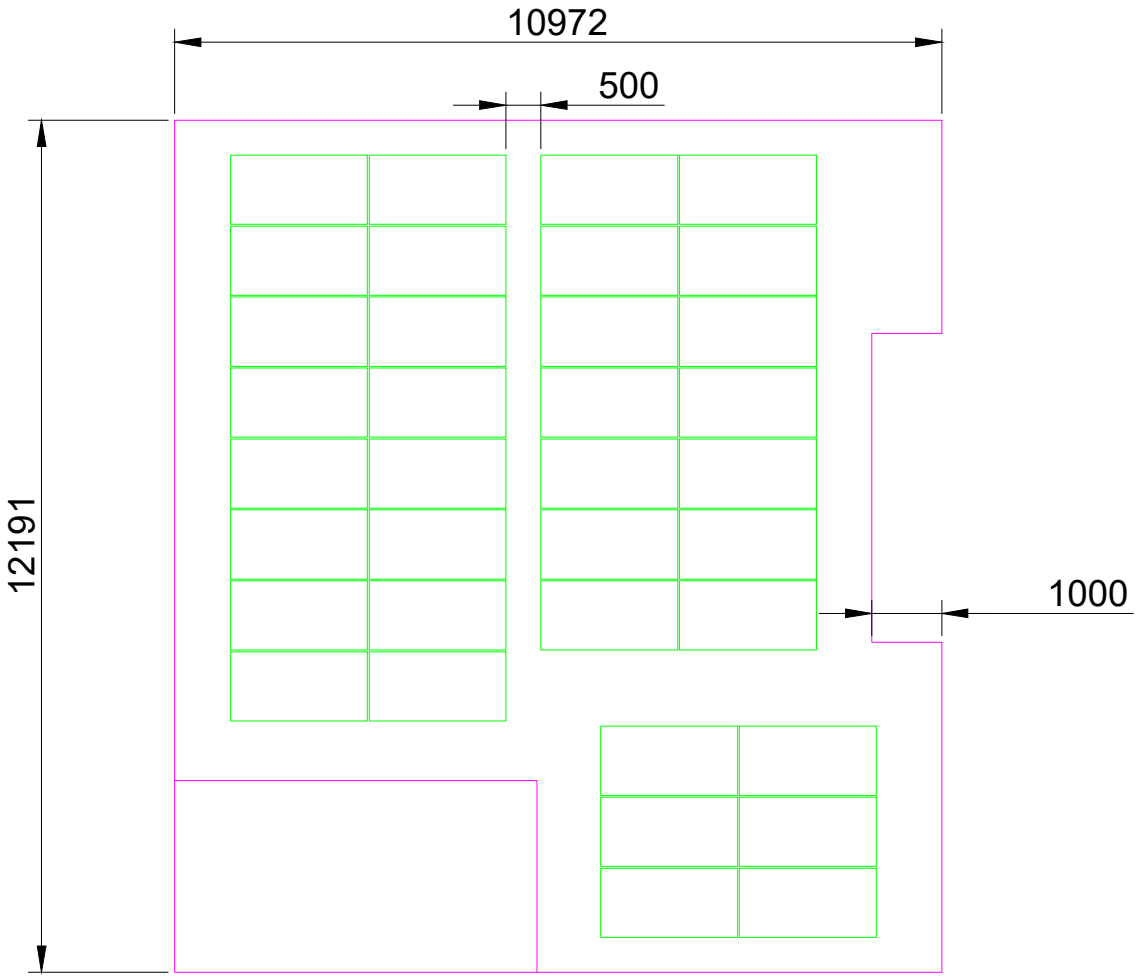


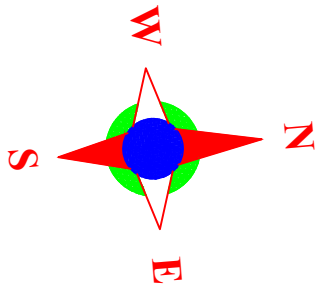
Bnk. of Mh.,Pimpri, Pune

NO. OF MODULES	- 126
STRING SIZE	- 18 modules
NO. OF STRINGS	- 7
MODULE CAPACITY	- 335Wp, Poly
PLANT CAPACITY	- 42.21 kWp

PROJECTION		DRAWN	S V D		TITLE :	ARRAY LAYOUT PLAN	
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra,Pimpri, Pune	

ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.		DATE :	27/03/2020
DWG. NO.	AGEPL/RT/BOM_PMP/ALP/R1	PAGE NO :	1 OF 1

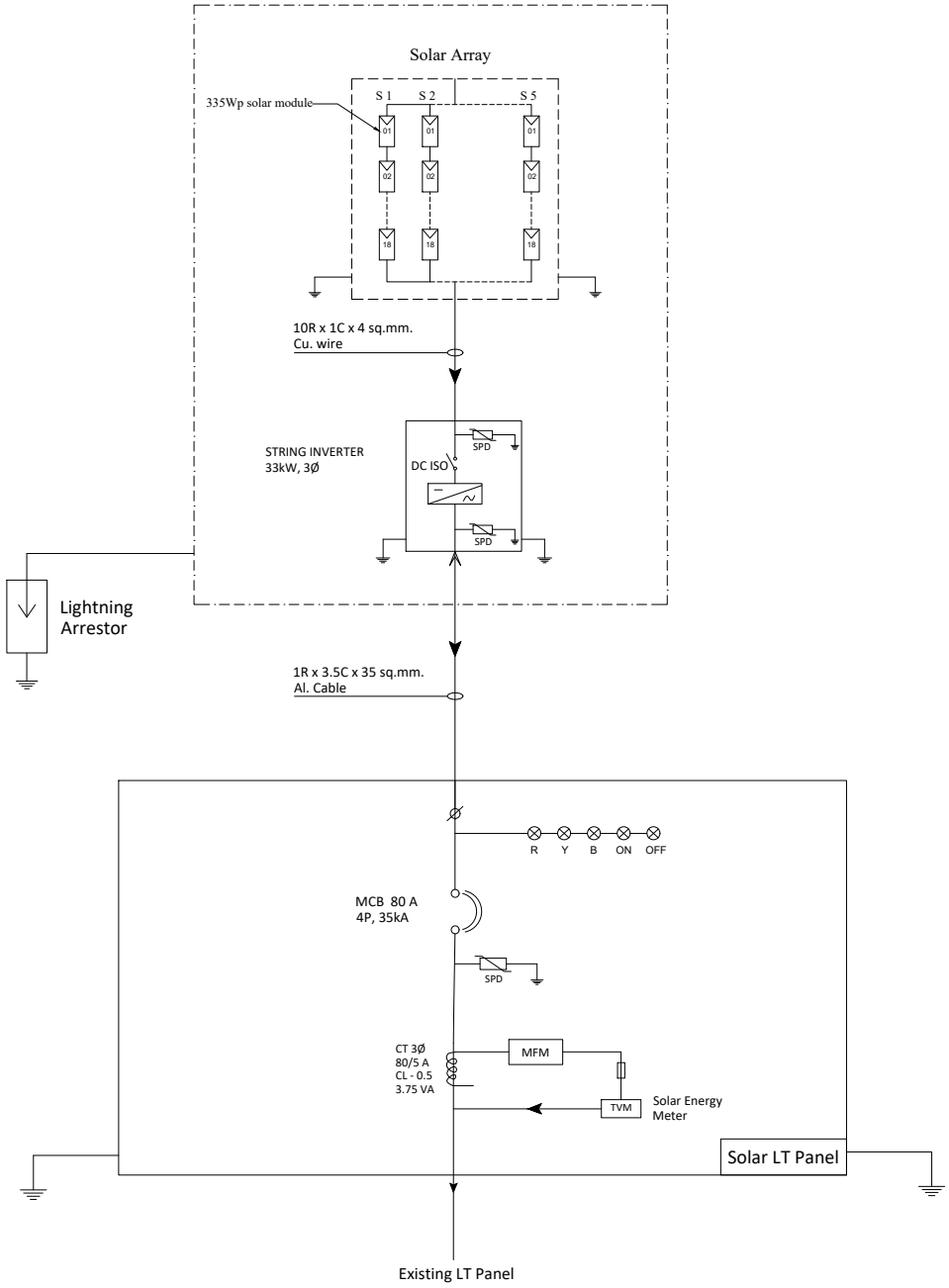




Bnk. of Mh.,Prabhat road, Pune

NO. OF MODULES - 36
STRING SIZE - 18 modules
NO. OF STRINGS - 9
MODULE CAPACITY - 335Wp, Poly
PLANT CAPACITY - 12.06 kWp

PROJECTION		DRAWN	S V D		TITLE :	ARRAY LAYOUT PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 27/03/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra,Prabhat Road, Pune	DWG. NO. AGEPL/RT/BOM_PRBT/ALP/R1	PAGE NO : 1 OF 1



Module - 335Wp , 90 nos.
Inverter - 33 kW ,1 no.

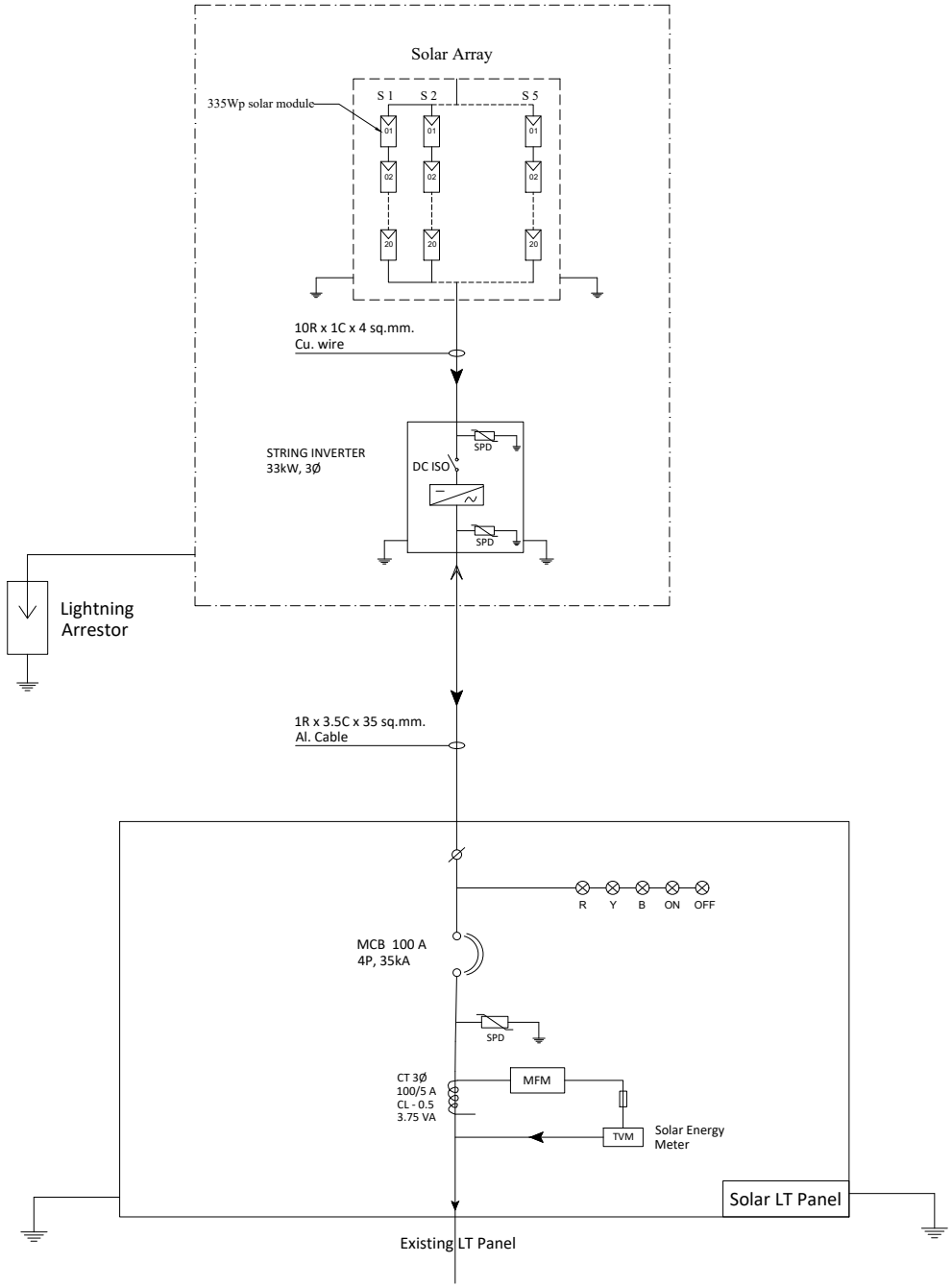
LEGEND :

	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 30.15 kWp	
SCALE	NTS	CHECKED	G S S		PROJECT :	Bajirao road, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra,Bajirao Road, PUNE	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DWG. NO.	AGEPL/RT/BOM_BJR/SLD/R1	DATE :	05/08/2020
		PAGE NO :	1 OF 1



Module - 335Wp , 100 nos.
Inverter - 33 kW ,1 no.

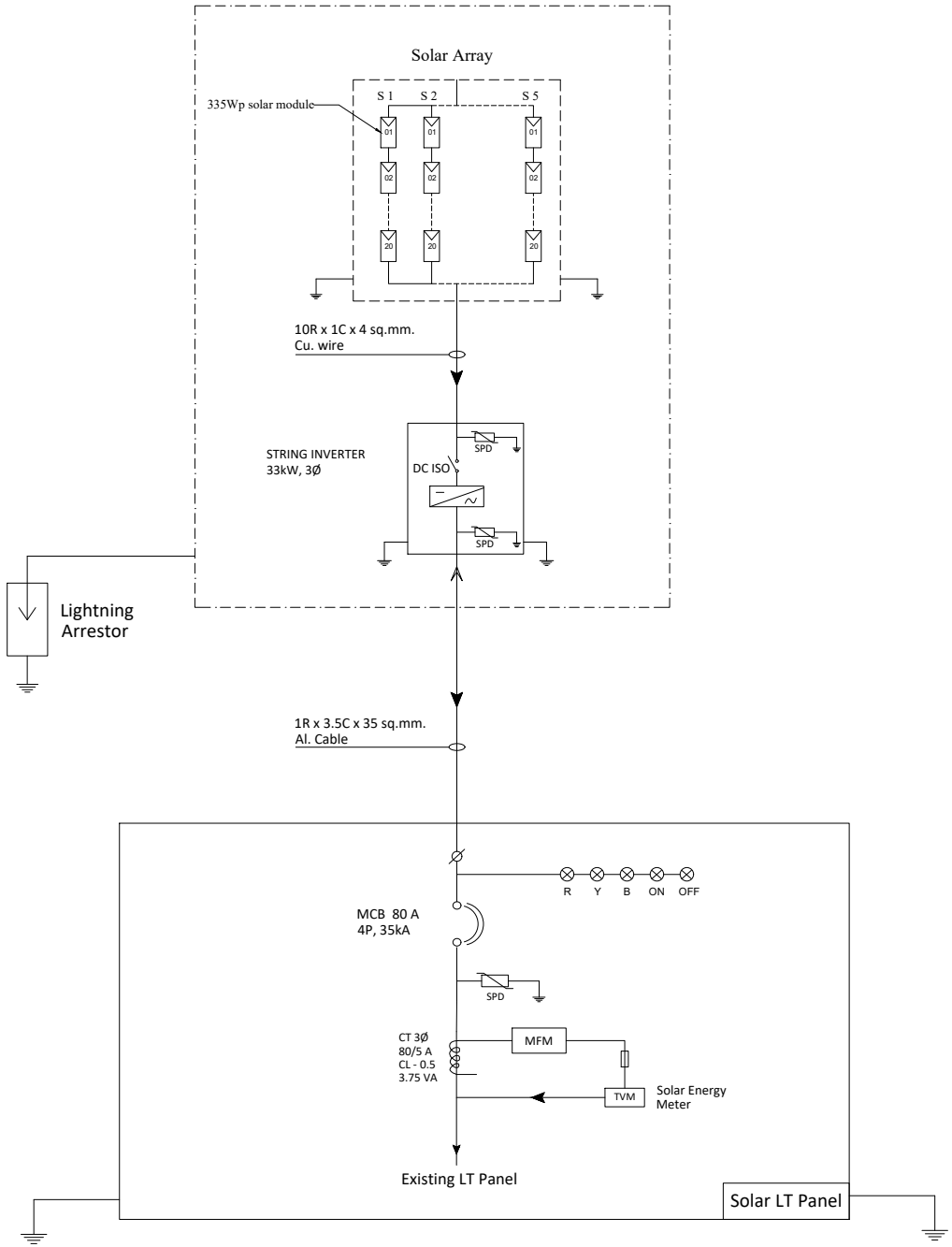
LEGEND :

	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 33.5 kWp	
SCALE	NTS	CHECKED	G S S		PROJECT :	F C Road, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra, F C Road, PUNE	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DATE :	05/08/2020
DWG. NO.	AGEPL/RT/BOM_FC/SLD/R1
PAGE NO :	1 OF 1



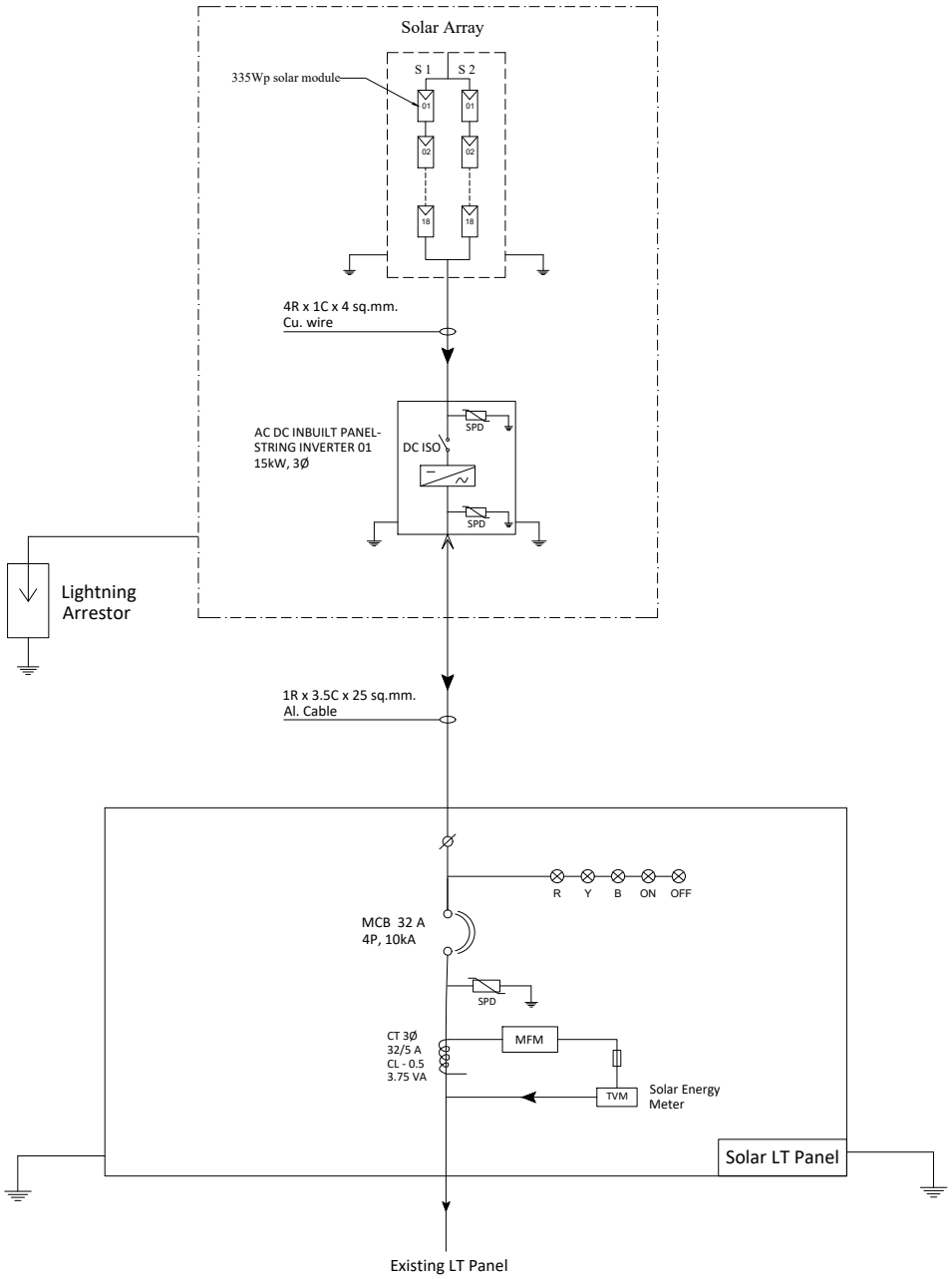
Module - 335Wp , 100 nos.
Inverter - 33 kW ,1 no.

LEGEND :

	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 33.5 kWp	
SCALE	NTS	CHECKED	G S S		PROJECT :	Hadapsar, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra,Hadapsar, PUNE	

ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.		DATE :	05/08/2020
DWG. NO.	AGEPL/RT/BOM_HDP/SLD/R1	PAGE NO :	1 OF 1



Module - 335Wp , 36 nos.
Inverter - 15 kW ,1 no.

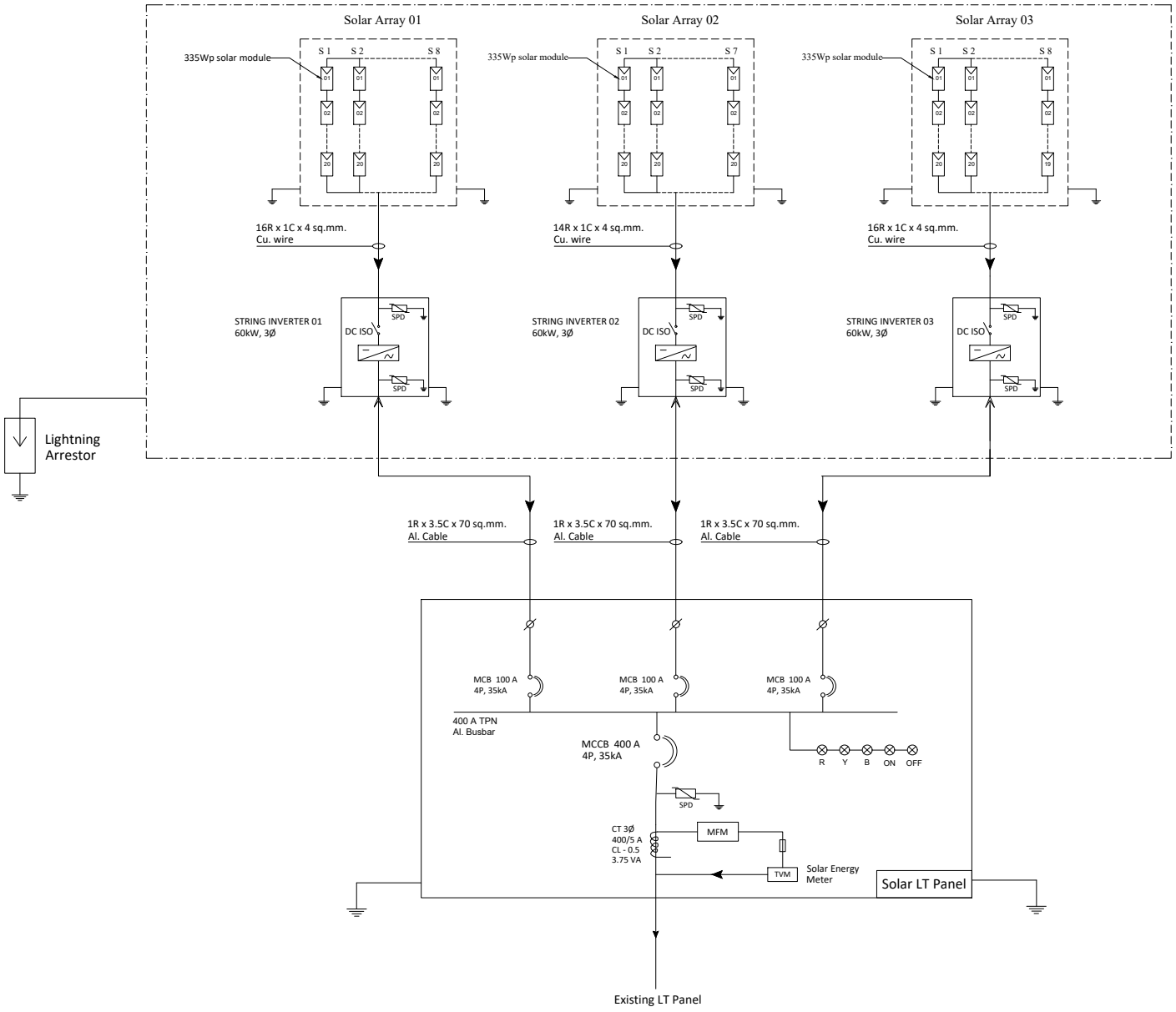
LEGEND :

	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 12.06kWp	
SCALE	NTS	CHECKED	G S S		PROJECT :	Kothrud, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra, Kothrud, PUNE	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DATE :	05/08/2020
DWG. NO.	AGEPL/RT/BOM_KTD/SLD/R1
PAGE NO :	1 OF 1



Module - 335Wp , 459 nos.
Inverter - 60 kW ,3 nos.

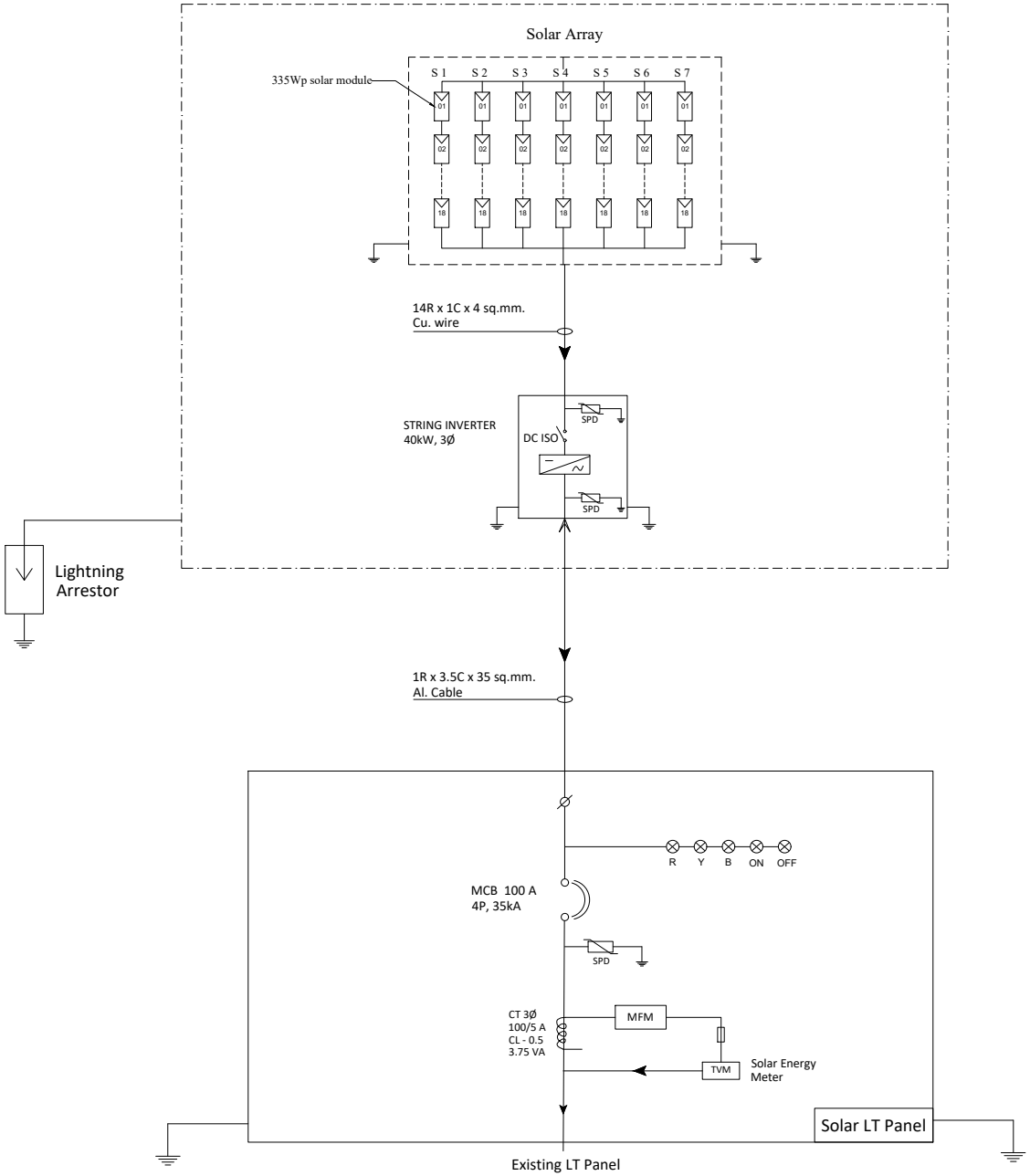
LEGEND :

	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 154kWp	
SCALE	NTS	CHECKED	G S S		PROJECT :	Lokmangal Building, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra, Lokmangal, PUNE	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DATE :	05/08/2020
DWG. NO.	AGEPL/RT/BOM_LKMGL/SLD/R1
PAGE NO :	1 OF 1



Module - 335Wp , 126 nos.
Inverter - 40 kW ,1 no.

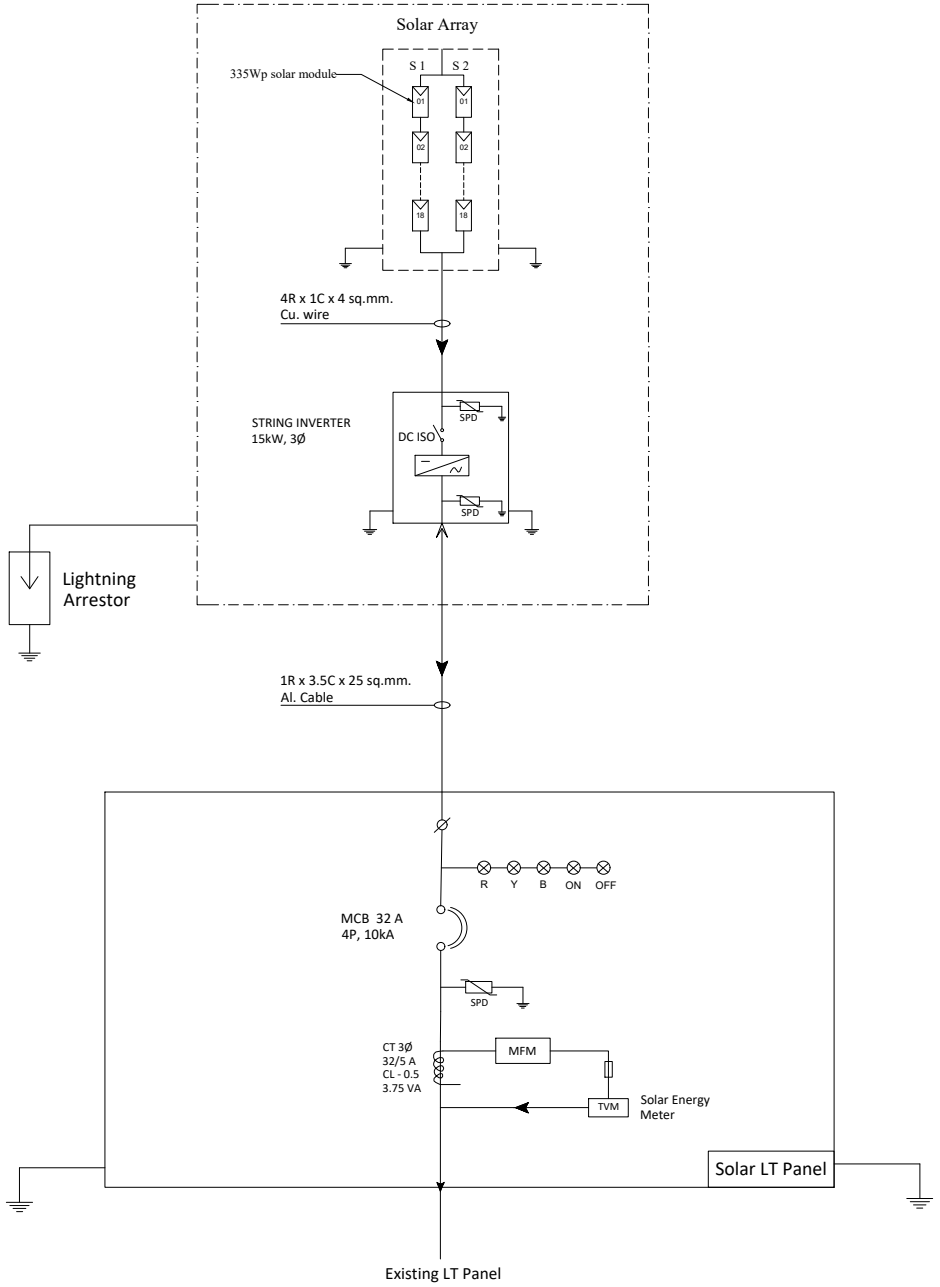
LEGEND :

	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 42.21Wp	
SCALE	NTS	CHECKED	G S S		PROJECT :	Pimpri, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra,Pimpri, PUNE	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DATE :	05/08/2020
DWG. NO.	AGEPL/RT/BOM_PMP/SLD/R1
PAGE NO :	1 OF 1



Module - 335Wp , 36 nos.
Inverter - 15 kW ,1 no.

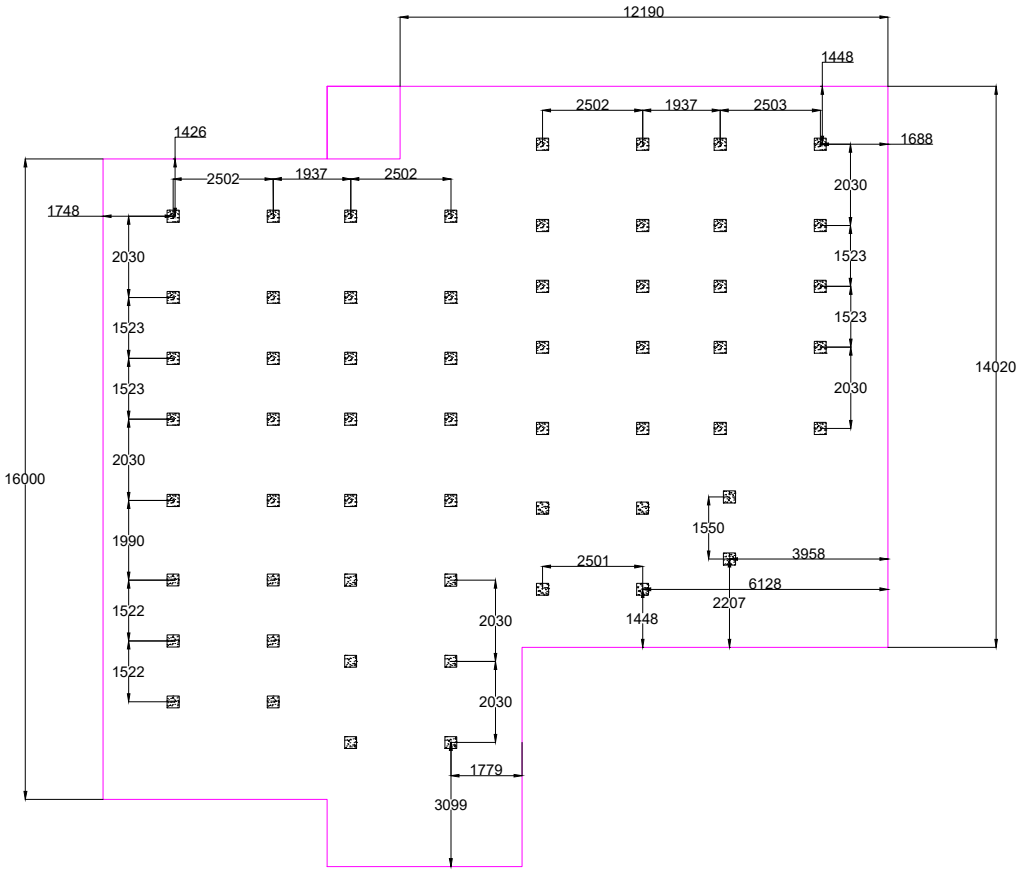
LEGEND :

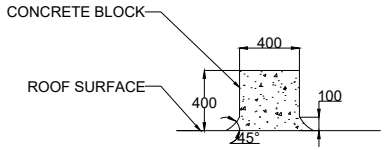
	CURRENT TRANSFORMER
	INDICATOR
MFM	MULTI FUNCTION METER
	MINIATURE CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	SURGE PROTECTION DEVICE
	TERMINAL
	ISOLATOR
	INVERTER
	FUSE
	POTENTIAL TRANSFORMER
V	VOLTMETER

PROJECTION		DRAWN	S V D		TITLE :	Single Line Diagram, 12.06kWp	
SCALE	NTS	CHECKED	G S S		PROJECT :	Prabhat Road, Bank of Maharashtra, PUNE	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s; Bank of Maharashtra,Prabhat Road, PUNE	

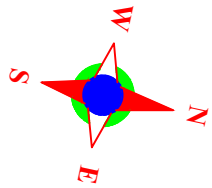
ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

DATE :	05/08/2020		
DWG. NO.	AGEPL/RT/BOM_PRBT/SLD/R1	PAGE NO :	1 OF 1





CIVIL PEDESTAL



Bnk. of Mh.,Bajirao road, Pune

NO. OF MODULES - 90
NO. OF BLOCKS - 58
BLOCK DIMENSION - 400x400x400mm. (LxWxH)

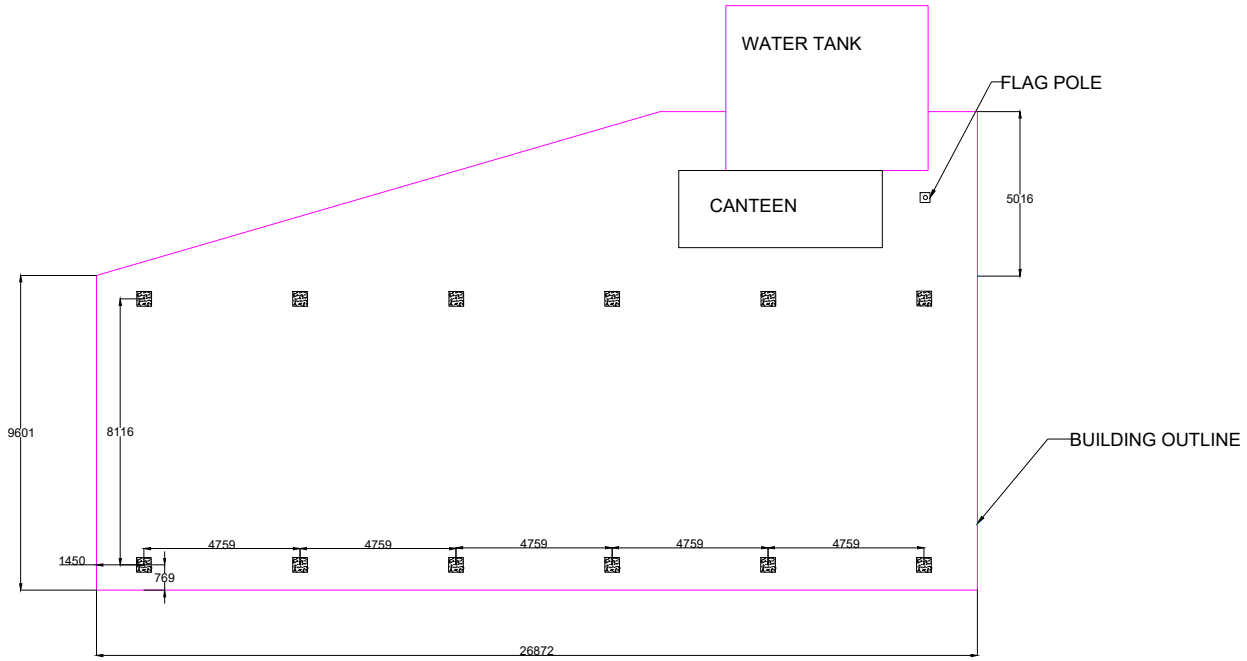
PROCEDURE FOR APPLICATION OF METAL-to-CONCRETE ADHESIVE (EPOXY)

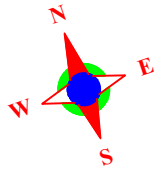
1. Grind the Metal surface (GI or SS or AL) to be bonded using grinder. Clean it by dry rag wipe or solvent wipe.
2. Mark the area using Marker Pen where Base plate needs to be bonded on Concrete surface.
3. Buff the shiny Ceramic tile or concrete using 80grit emery paper. Remove loose particles by solvent like IPA, MEK, toluene or just give dry rag wipe.
4. Weigh adhesive epoxy in 1.2:1(By Weight) on weighing balance. Mix it properly by spatula or mixing stick or scrapper. If you do not have weighing balance, take 1 spoon each of the adhesive epoxy by volume and mix it properly.
5. Ensure mixing by uniform color to the mixture. Use plastic or Metal Scrapper which is used for putty application .
6. Apply adhesive on either Metal surface OR concrete & mate the parts within working time of the adhesive i.e. 20-40 minutes @ 24 Degree C. Working time is the time within which application on substrates should be completed. Every 10 Degree rise in temperature will reduce your working time to half (i.e.10-20 minutes @ 34 Degree C), If you try to bond after working time, then bonding will not be proper as mixed adhesive will already start curing.
7. Give very little pressure on the substrate so that excess adhesive will squeeze out from the sides. Wipe out this adhesive.
8. After application of adhesive, bonded parts should be kept in undisturbed condition till it achieves handling strength. Time to achieve Handling strength for this adhesive is 2-4 hrs. at room temperature. (Handling strength is nothing but the strength at which we can handle the bonded assembly without disturbing its bond. For normal applications 50-100 psi is considered as handling strength)
9. Put some weight on bonded parts if necessary.
10. Full curing of adhesive takes place in 24 hrs at room temperature.
11. In the rainy season, bonded parts should be covered with plastic paper or Tarpoline to prevent from water for at least 24 hrs.
13. You can install the Solar panels after 24 hours of adhesive application.

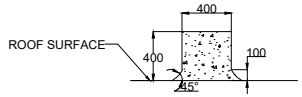
NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN (30.15 kWp)	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 03/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Bajirao road, Pune	DWG. NO. AGEPL/RT/BOM_BJR/FD/R1	PAGE NO : 1 OF 1





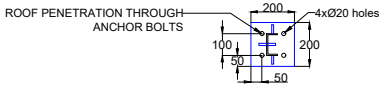


CIVIL PEDESTAL

BANK OF MAHARASHTRA, F.C.ROAD, PUNE

NO. OF MODULES - 100
NO. OF BLOCKS - 12 (Super-structure)
BLOCK DIMENSION - 450x450x450mm. (LxWxH)

GROUTING DETAILS :



ANCHOR BOLT SPECIFICATIONS :

Diameter : Ø20
Length : 150mm.

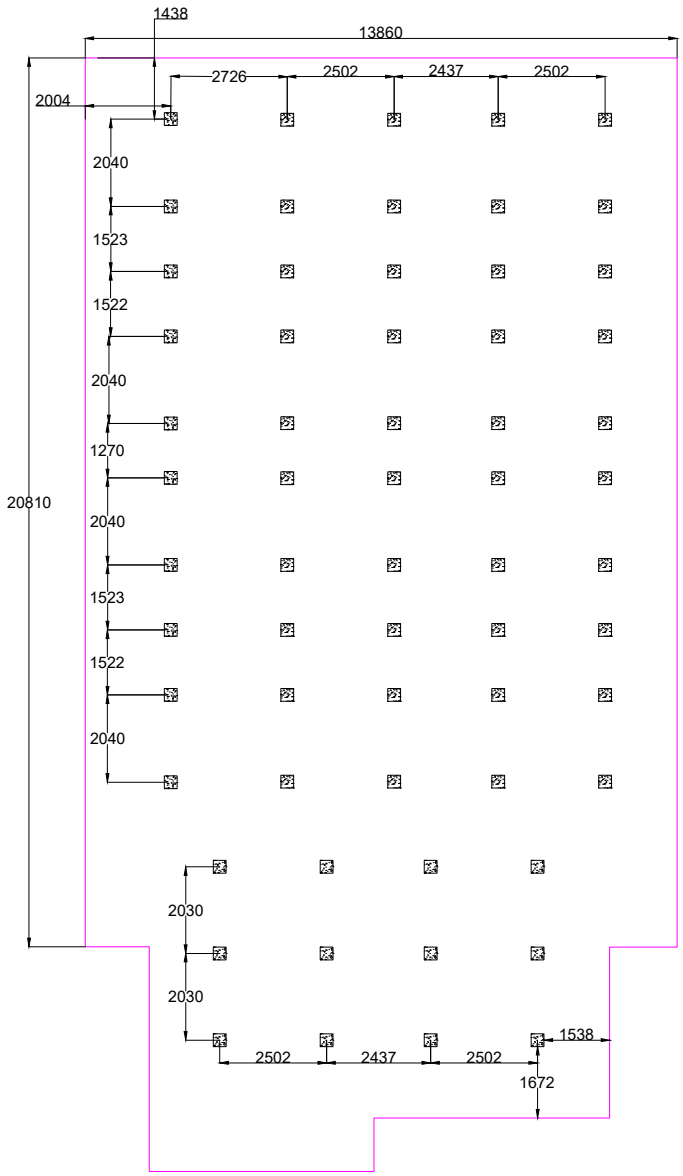
GENERAL PROCEDURE FOR GROUTING :

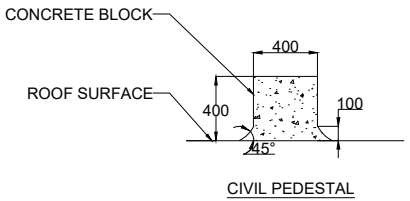
1. MARK THE AREA WHERE THE BASEPLATE NEEDS TO BE FIXED ON THE ROOF SURFACE.
2. DRILL HOLES OF GIVEN SIZES AT THE FIXING POINT.
3. THE SURFACES OF CONCRETE AND BASEPLATE SHOULD BE FREE OF DUST, DIRT, AND DEBRIS THAT MAY AFFECT THE QUALITY OF THE GROUT BOND.
4. ENTER THE ANCHOR BOLTS INTO THE HOLES AND ADD WATERPROOF SOLUTION AT THIS REGION. TAP THE BOLT USING A HAMMER UNTIL IT IS FIRMLY TRAPPED IN THE CONCRETE.
5. TO POUR THE GROUT SUCCESSFULLY, ENSURE OPTIMAL VISCOSITY, FLOW-RATE AND TEMPERATURE. THESE CONDITIONS CAN BE ADVISED AND VERIFIED BY THE GROUT MANUFACTURER.
6. MAKE A TEMPORARY ENCLOSURE SURROUNDING THE BASEPLATE FOR THE GROUT/CEMENT TO TAKE SHAPE.
7. POUR THE GROUT INTO THE ENCLOSURE AND LEAVE IT TO SETTLE.
8. AFTER A CERTAIN TIME DURATION, THE CONCRETE WILL TURN SOLID, NOW REMOVE THE ENCLOSURE.
9. REGULAR CURING SHOULD BE DONE FOR A FEW DAYS.

NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN for SUPER_STRUCTURE(33.5 kWp)	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE :	04/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT			
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, F.C. ROAD, Pune	DWG. NO. AGEPL/RT/BOM_FC/FD/R2	PAGE NO :	1 OF 1





CIVIL PEDESTAL

Bnk. of Mh.,Hadapsar, Pune

NO. OF MODULES - 100
NO. OF BLOCKS - 62
BLOCK DIMENSION - 400x400x400mm. (LxWxH)

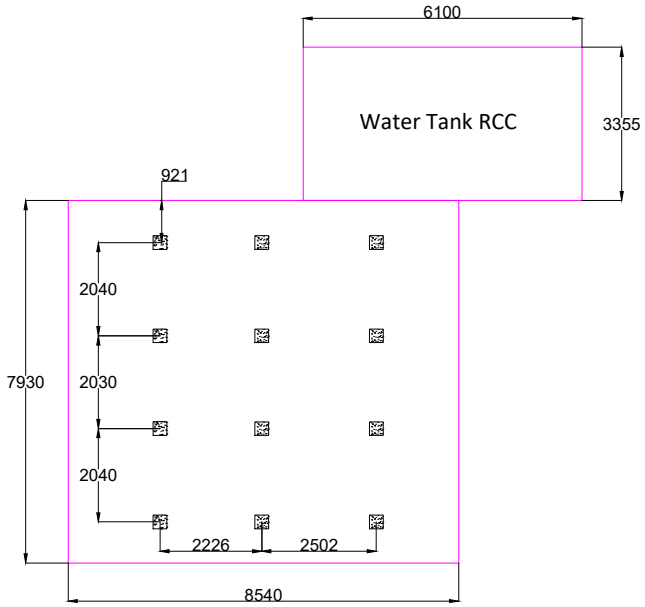
PROCEDURE FOR APPLICATION OF METAL-to-CONCRETE ADHESIVE (EPOXY)

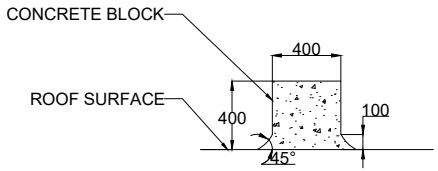
1. Grind the Metal surface (GI or SS or AL) to be bonded using grinder. Clean it by dry rag wipe or solvent wipe.
2. Mark the area using Marker Pen where Base plate needs to be bonded on Concrete surface.
3. Buff the shiny Ceramic tile or concrete using 80grit emery paper. Remove loose particles by solvent like IPA, MEK, toluene or just give dry rag wipe.
4. Weigh adhesive epoxy in 1.2:1(By Weight) on weighing balance. Mix it properly by spatula or mixing stick or scrapper. If you do not have weighing balance, take 1 spoon each of the adhesive epoxy by volume and mix it properly.
5. Ensure mixing by uniform color to the mixture. Use plastic or Metal Scrapper which is used for putty application .
6. Apply adhesive on either Metal surface OR concrete & mate the parts within working time of the adhesive i.e. 20-40 minutes @ 24 Degree C. Working time is the time within which application on substrates should be completed. Every 10 Degree rise in temperature will reduce your working time to half (i.e.10-20 minutes @ 34 Degree C), If you try to bond after working time, then bonding will not be proper as mixed adhesive will already start curing.
7. Give very little pressure on the substrate so that excess adhesive will squeeze out from the sides. Wipe out this adhesive.
8. After application of adhesive, bonded parts should be kept in undisturbed condition till it achieves handling strength. Time to achieve Handling strength for this adhesive is 2-4 hrs. at room temperature. (Handling strength is nothing but the strength at which we can handle the bonded assembly without disturbing its bond. For normal applications 50-100 psi is considered as handling strength)
9. Put some weight on bonded parts if necessary.
10. Full curing of adhesive takes place in 24 hrs at room temperature.
11. In the rainy season, bonded parts should be covered with plastic paper or Tarpoline to prevent from water for at least 24 hrs.
13. You can install the Solar panels after 24 hours of adhesive application.

NOTE:

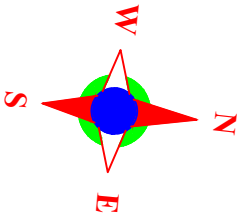
1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

PROJECTION		DRAWN	S V D		TITLE : FOUNDATION PLAN (33.5 kWp)	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 03/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT : SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER : M/s Bank of Maharashtra, Hadapsar, Pune	DWG. NO. AGEPL/RT/BOM_HDP/FD/R1	PAGE NO : 1 OF 1



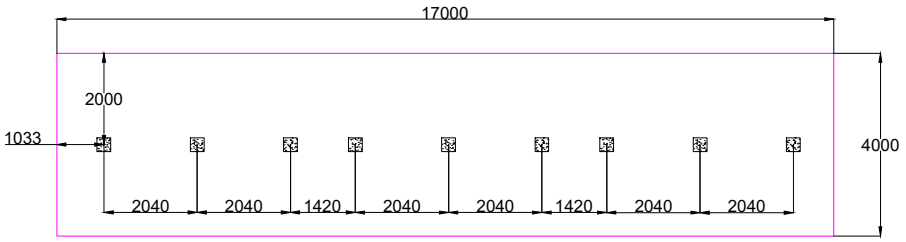


CIVIL PEDESTAL



Bnk. of Mh.,Kothrud, Pune

NO. OF MODULES - 36
NO. OF BLOCKS - 21
BLOCK DIMENSION - 400x400x400mm. (LxWxH)



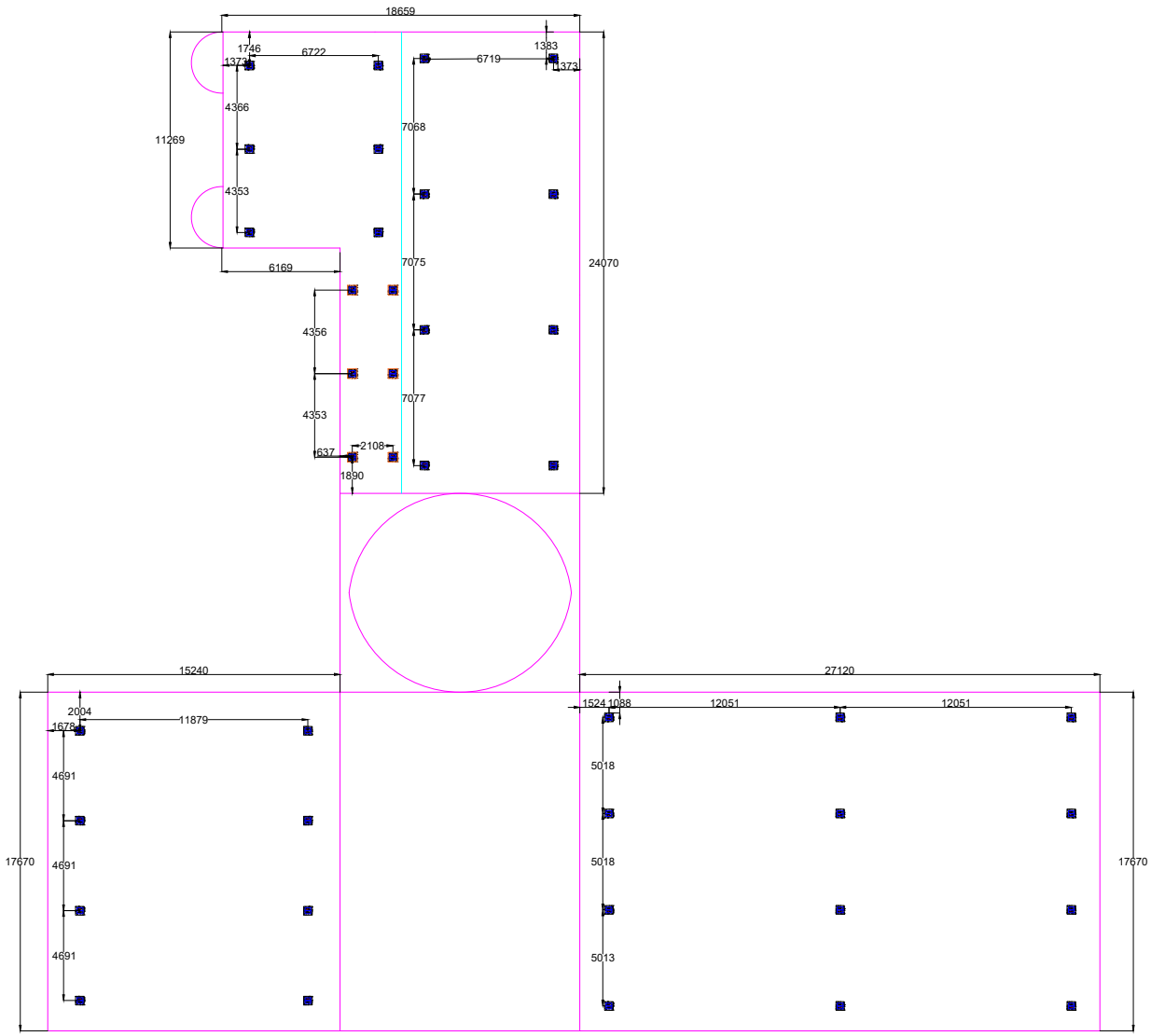
PROCEDURE FOR APPLICATION OF METAL-to-CONCRETE ADHESIVE (EPOXY)

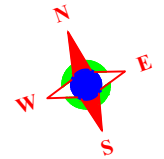
1. Grind the Metal surface (GI or SS or AL) to be bonded using grinder. Clean it by dry rag wipe or solvent wipe.
2. Mark the area using Marker Pen where Base plate needs to be bonded on Concrete surface.
3. Buff the shiny Ceramic tile or concrete using 80grit emery paper. Remove loose particles by solvent like IPA, MEK, toluene or just give dry rag wipe.
4. Weigh adhesive epoxy in 1.2:1(By Weight) on weighing balance. Mix it properly by spatula or mixing stick or scrapper. If you do not have weighing balance, take 1 spoon each of the adhesive epoxy by volume and mix it properly.
5. Ensure mixing by uniform color to the mixture. Use plastic or Metal Scrapper which is used for putty application .
6. Apply adhesive on either Metal surface OR concrete & mate the parts within working time of the adhesive i.e. 20-40 minutes @ 24 Degree C. Working time is the time within which application on substrates should be completed. Every 10 Degree rise in temperature will reduce your working time to half (i.e.10-20 minutes @ 34 Degree C), If you try to bond after working time, then bonding will not be proper as mixed adhesive will already start curing.
7. Give very little pressure on the substrate so that excess adhesive will squeeze out from the sides. Wipe out this adhesive.
8. After application of adhesive, bonded parts should be kept in undisturbed condition till it achieves handling strength. Time to achieve Handling strength for this adhesive is 2-4 hrs. at room temperature. (Handling strength is nothing but the strength at which we can handle the bonded assembly without disturbing its bond. For normal applications 50-100 psi is considered as handling strength)
9. Put some weight on bonded parts if necessary.
10. Full curing of adhesive takes place in 24 hrs at room temperature.
11. In the rainy season, bonded parts should be covered with plastic paper or Tarpoline to prevent from water for at least 24 hrs.
13. You can install the Solar panels after 24 hours of adhesive application.

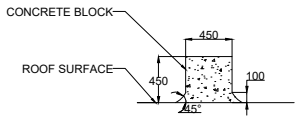
NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN (12.06 kWp)	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 03/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Kothrud, Pune	DWG. NO. AGEPL/RT/BOM_KTD/FD/R1	PAGE NO : 1 OF 1





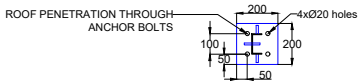


CIVIL PEDESTAL

BANK OF MAHARASHTRA, F.C.ROAD, PUNE

NO. OF MODULES - 459
NO. OF BLOCKS - 40 (Super-structure)
BLOCK DIMENSION - 450x450x450mm. (LxWxH)

GROUTING DETAILS :



ANCHOR BOLT SPECIFICATIONS :

Diameter : Ø20
Length : 150mm.

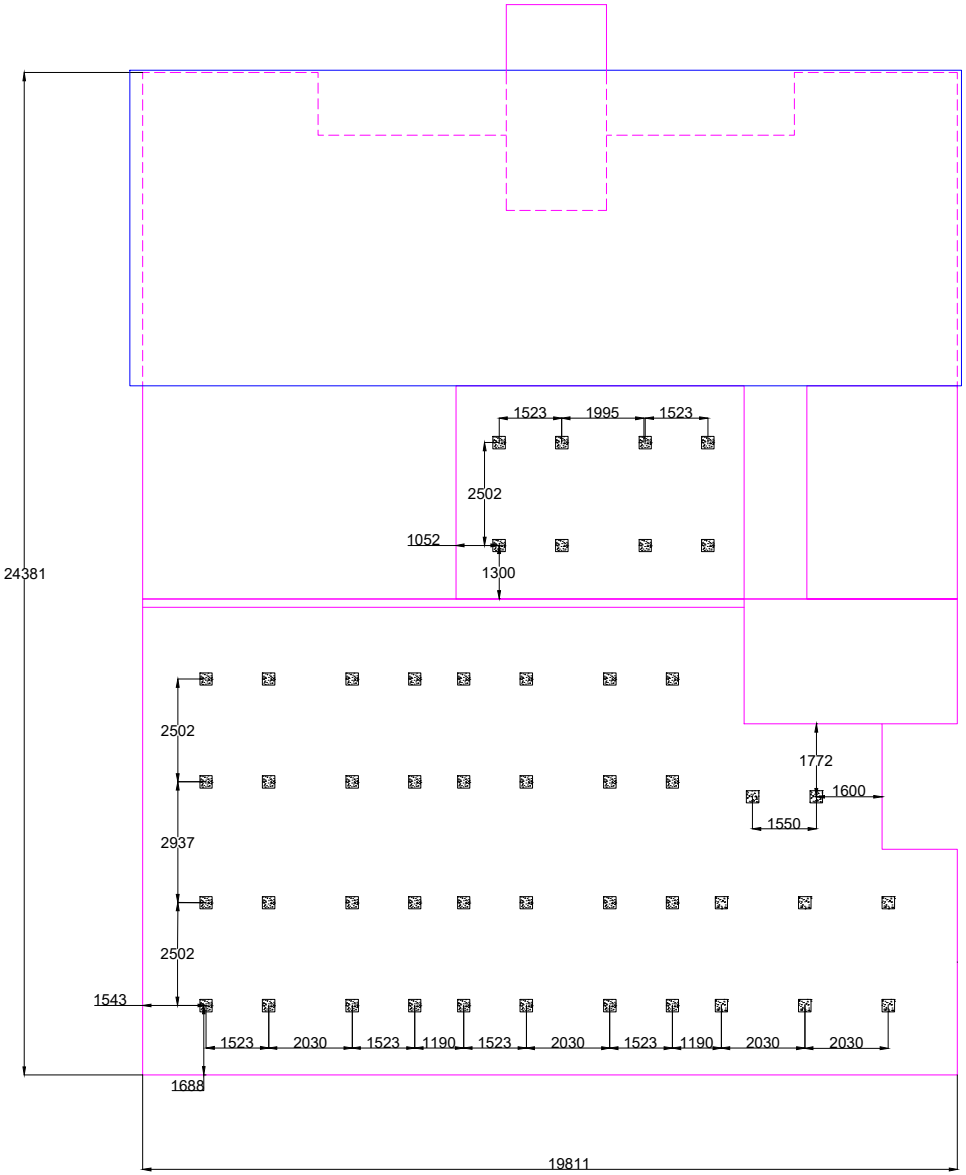
GENERAL PROCEDURE FOR GROUTING :

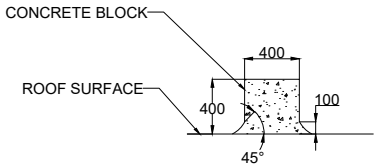
1. MARK THE AREA WHERE THE BASEPLATE NEEDS TO BE FIXED ON THE ROOF SURFACE.
2. DRILL HOLES OF GIVEN SIZES AT THE FIXING POINT.
3. THE SURFACES OF CONCRETE AND BASEPLATE SHOULD BE FREE OF DUST, DIRT, AND DEBRIS THAT MAY AFFECT THE QUALITY OF THE GROUT BOND.
4. ENTER THE ANCHOR BOLTS INTO THE HOLES AND ADD WATERPROOF SOLUTION AT THIS REGION. TAP THE BOLT USING A HAMMER UNTIL IT IS FIRMLY TRAPPED IN THE CONCRETE..
5. TO POUR THE GROUT SUCCESSFULLY, ENSURE OPTIMAL VISCOSITY, FLOW-RATE AND TEMPERATURE. THESE CONDITIONS CAN BE ADVISED AND VERIFIED BY THE GROUT MANUFACTURER.
6. MAKE A TEMPORARY ENCLOSURE SURROUNDING THE BASEPLATE FOR THE GROUT/CEMENT TO TAKE SHAPE.
7. POUR THE GROUT INTO THE ENCLOSURE AND LEAVE IT TO SETTLE.
8. AFTER A CERTAIN TIME DURATION, THE CONCRETE WILL TURN SOLID, NOW REMOVE THE ENCLOSURE.
9. REGULAR CURING SHOULD BE DONE FOR A FEW DAYS BEFORE FURTHER WORK.

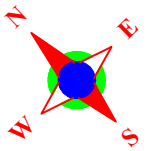
NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN for SUPER_STRUCTURE (154 kWp)	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 04/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Lokamangal Building, Pune	DWG. NO. AGEPL/RT/BOM_LOK/FD/R1	PAGE NO : 1 OF 1







Bnk. of Mh.,Pimpri, Pune

NO. OF MODULES - 126
NO. OF BLOCKS - 48 (On Roof)
- 10 (Super-structure)
BLOCK DIMENSION - 450x450x450mm. (super-structure)
- 400x400x400mm. (On roof)

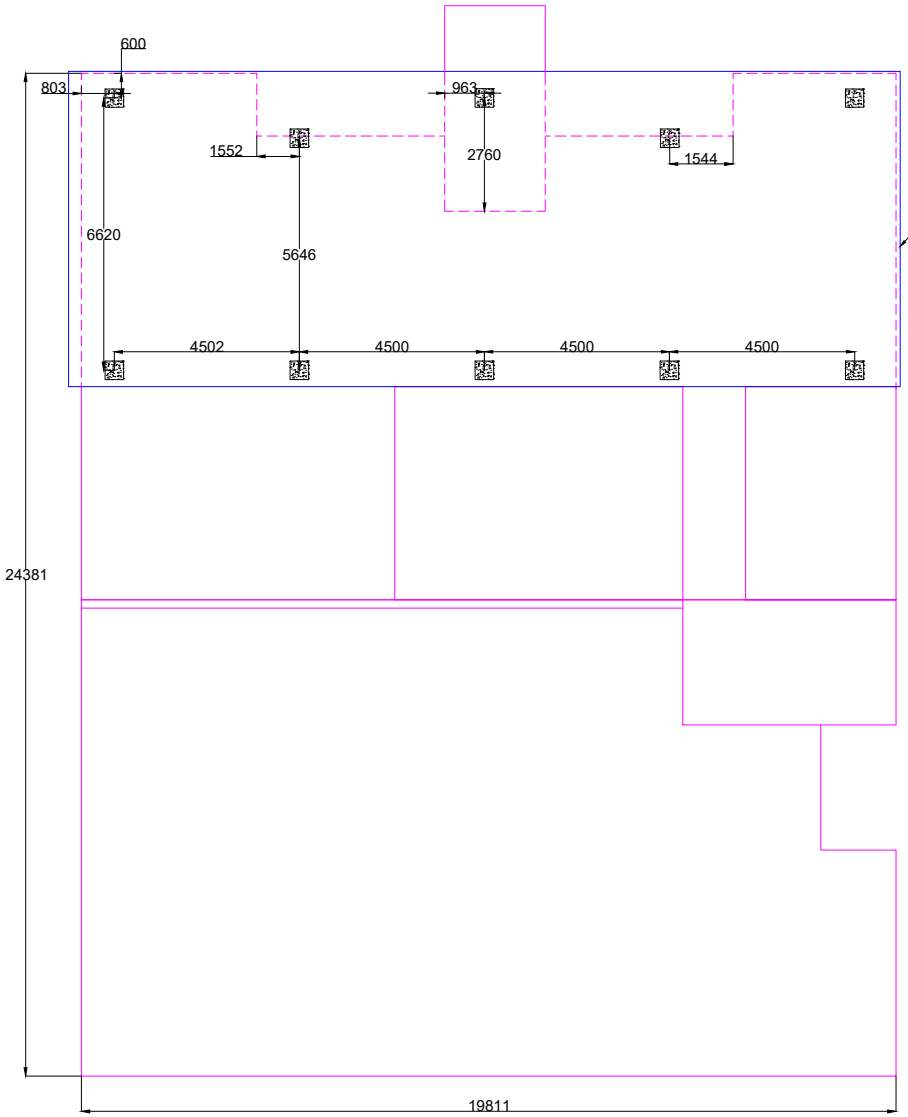
PROCEDURE FOR APPLICATION OF METAL-to-CONCRETE ADHESIVE (EPOXY)

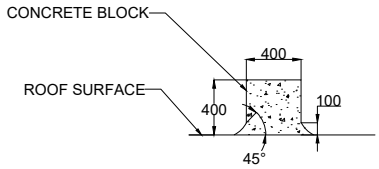
1. Grind the Metal surface (GI or SS or AL) to be bonded using grinder. Clean it by dry rag wipe or solvent wipe.
2. Mark the area using Marker Pen where Base plate needs to be bonded on Concrete surface.
3. Buff the shiny Ceramic tile or concrete using 80grit emery paper. Remove loose particles by solvent like IPA, MEK, toluene or just give dry rag wipe.
4. Weigh adhesive epoxy in 1.2:1(By Weight) on weighing balance. Mix it properly by spatula or mixing stick or scrapper. If you do not have weighing balance, take 1 spoon each of the adhesive epoxy by volume and mix it properly.
5. Ensure mixing by uniform color to the mixture. Use plastic or Metal Scrapper which is used for putty application .
6. Apply adhesive on either Metal surface OR concrete & mate the parts within working time of the adhesive i.e. 20-40 minutes @ 24 Degree C. Working time is the time within which application on substrates should be completed. Every 10 Degree rise in temperature will reduce your working time to half (i.e.10-20 minutes @ 34 Degree C), If you try to bond after working time, then bonding will not be proper as mixed adhesive will already start curing.
7. Give very little pressure on the substrate so that excess adhesive will squeeze out from the sides. Wipe out this adhesive.
8. After application of adhesive, bonded parts should be kept in undisturbed condition till it achieves handling strength. Time to achieve Handling strength for this adhesive is 2-4 hrs. at room temperature. (Handling strength is nothing but the strength at which we can handle the bonded assembly without disturbing its bond. For normal applications 50-100 psi is considered as handling strength)
9. Put some weight on bonded parts if necessary.
10. Full curing of adhesive takes place in 24 hrs at room temperature.
11. In the rainy season, bonded parts should be covered with plastic paper or Tarpoline to prevent from water for at least 24 hrs.
13. You can install the Solar panels after 24 hours of adhesive application.

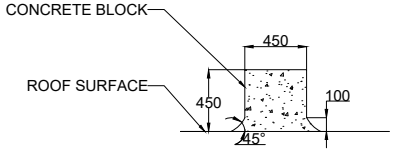
NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

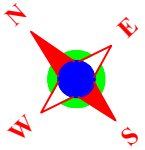
PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN for SUPER_STRUCTURE	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 04/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT	DWG. NO. AGEPL/RT/BOM_PMP_01/FD/R2	PAGE NO : 1 OF 1
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Pimpri , Pune		







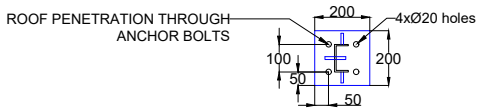
CIVIL PEDESTAL



Bnk. of Mh.,Pimpri, Pune

NO. OF MODULES - 126
NO. OF BLOCKS - 48 (On Roof)
- 10 (Super-structure)
BLOCK DIMENSION - 450x450x450mm. (super-structure)
- 400x400x400mm. (On roof)

GROUTING DETAILS :



ANCHOR BOLT SPECIFICATIONS :

Diameter : Ø20
Length : 150mm.

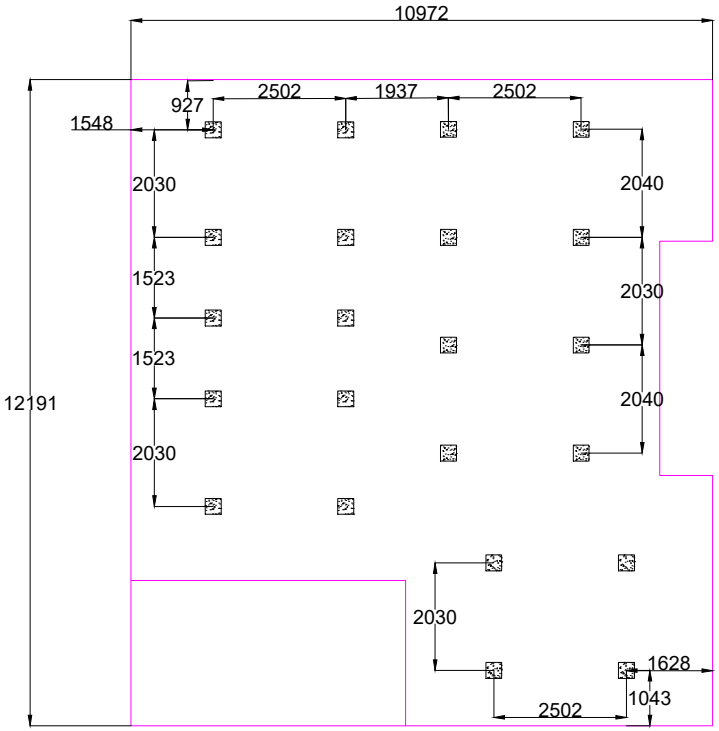
GENERAL PROCEDURE FOR GROUTING :

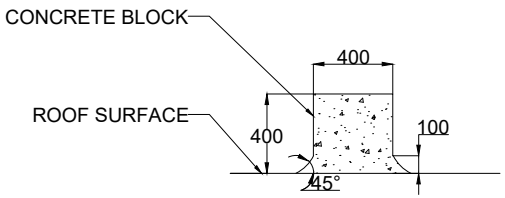
1. MARK THE AREA WHERE THE BASEPLATE NEEDS TO BE FIXED ON THE ROOF SURFACE.
2. DRILL HOLES OF GIVEN SIZES AT THE FIXING POINT.
3. THE SURFACES OF CONCRETE AND BASEPLATE SHOULD BE FREE OF DUST, DIRT, AND DEBRIS THAT MAY AFFECT THE QUALITY OF THE GROUT BOND.
4. ENTER THE ANCHOR BOLTS INTO THE HOLES AND ADD WATERPROOF SOLUTION AT THIS REGION. TAP THE BOLT USING A HAMMER UNTIL IT IS FIRMLY TRAPPED IN THE CONCRETE.
5. TO POUR THE GROUT SUCCESSFULLY, ENSURE OPTIMAL VISCOSITY, FLOW-RATE AND TEMPERATURE. THESE CONDITIONS CAN BE ADVISED AND VERIFIED BY THE GROUT MANUFACTURER.
6. MAKE A TEMPORARY ENCLOSURE SURROUNDING THE BASEPLATE FOR THE GROUT/CEMENT TO TAKE SHAPE.
7. POUR THE GROUT INTO THE ENCLOSURE AND LEAVE IT TO SETTLE.
8. AFTER A CERTAIN TIME DURATION, THE CONCRETE WILL TURN SOLID, NOW REMOVE THE ENCLOSURE.
9. REGULAR CURING SHOULD BE DONE FOR A FEW DAYS BEFORE FURTHER WORK.

NOTE:

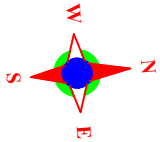
1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN for SUPER_STRUCTURE	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 04/11/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Pimpri , Pune	DWG. NO. AGEPL/RT/BOM_PMP/FD/R2	PAGE NO : 1 OF 1





CIVIL PEDESTAL



Bnk. of Mh.,Prabhat road, Pune

NO. OF MODULES - 36
NO. OF BLOCKS - 22
BLOCK DIMENSION - 400x400x400mm. (LxWxH)

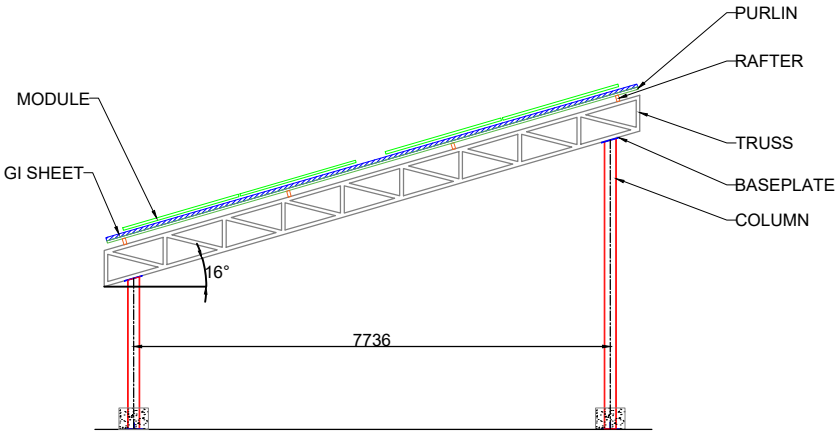
PROCEDURE FOR APPLICATION OF METAL-to-CONCRETE ADHESIVE (EPOXY)

1. Grind the Metal surface (GI or SS or AL) to be bonded using grinder. Clean it by dry rag wipe or solvent wipe.
2. Mark the area using Marker Pen where Base plate needs to be bonded on Concrete surface.
3. Buff the shiny Ceramic tile or concrete using 80grit emery paper. Remove loose particles by solvent like IPA, MEK, toluene or just give dry rag wipe.
4. Weigh adhesive epoxy in 1.2:1(By Weight) on weighing balance. Mix it properly by spatula or mixing stick or scrapper. If you do not have weighing balance, take 1 spoon each of the adhesive epoxy by volume and mix it properly.
5. Ensure mixing by uniform color to the mixture. Use plastic or Metal Scrapper which is used for putty application .
6. Apply adhesive on either Metal surface OR concrete & mate the parts within working time of the adhesive i.e. 20-40 minutes @ 24 Degree C. Working time is the time within which application on substrates should be completed. Every 10 Degree rise in temperature will reduce your working time to half (i.e.10-20 minutes @ 34 Degree C), If you try to bond after working time, then bonding will not be proper as mixed adhesive will already start curing.
7. Give very little pressure on the substrate so that excess adhesive will squeeze out from the sides. Wipe out this adhesive.
8. After application of adhesive, bonded parts should be kept in undisturbed condition till it achieves handling strength. Time to achieve Handling strength for this adhesive is 2-4 hrs. at room temperature. (Handling strength is nothing but the strength at which we can handle the bonded assembly without disturbing its bond. For normal applications 50-100 psi is considered as handling strength)
9. Put some weight on bonded parts if necessary.
10. Full curing of adhesive takes place in 24 hrs at room temperature.
11. In the rainy season, bonded parts should be covered with plastic paper or Tarpoline to prevent from water for at least 24 hrs.
13. You can install the Solar panels after 24 hours of adhesive application.

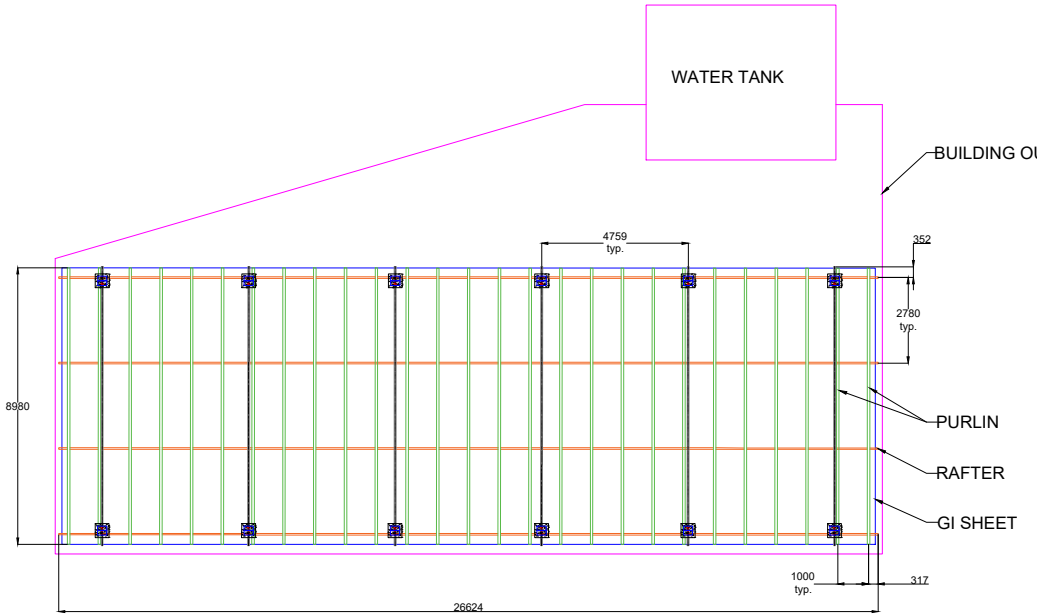
NOTE:

1. ALL DIMENSIONS ARE IN mm., UNLESS AND OTHERWISE MENTIONED.
2. DIMENSIONS MENTIONED ARE FROM BLOCK CENTRE-to-CENTRE.

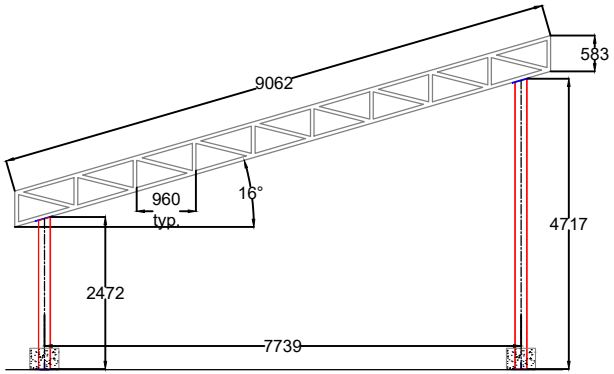
PROJECTION		DRAWN	S V D		TITLE :	FOUNDATION PLAN (12.06 kWp)	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 03/08/2020
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, Prabhat Road, Pune	DWG. NO. AGEPL/RT/BOM_PRBT/FD/R0	PAGE NO : 1 OF 1



SIDE VIEW



TOP VIEW



TRUSS DETAILS

TRUSS DETAILS
TYPE : SLOPING FLAT
SPAN : 9062 mm.

NOTE :
ALL DIMENSIONS ARE IN mm. UNLESS MENTIONED OTHERWISE.

BILL OF MATERIALS

SL. NO.	ITEM	TYPE & SIZE(mm.)	LENGTH(mm.)	QUANTITY	WEIGHT/m	WEIGHT(kg.)
1)	COLUMN	I-beam MB200	2472	6	24.2	1043
			4717	6		
2)	RAFTER	Rec. tube 100x50x4	26624	4	8.59	915
3)	PURLIN	Rec. tube 80x40x4	8980	27	6.71	1627
4)	BASEPLATE	HR plate 300x300x10		24	7.065/plate	170
		TOTAL WEIGHT(kg.)				**3755**

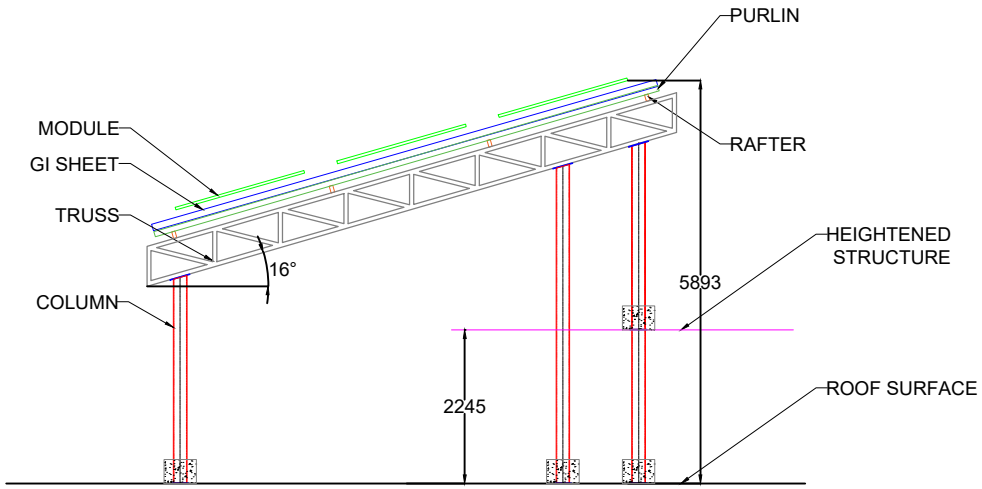
PROJECTION		DRAWN	S V D		TITLE :	33.5 kWp SUPER-STRUCTURE PLAN	
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, F.C. ROAD, Pune	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

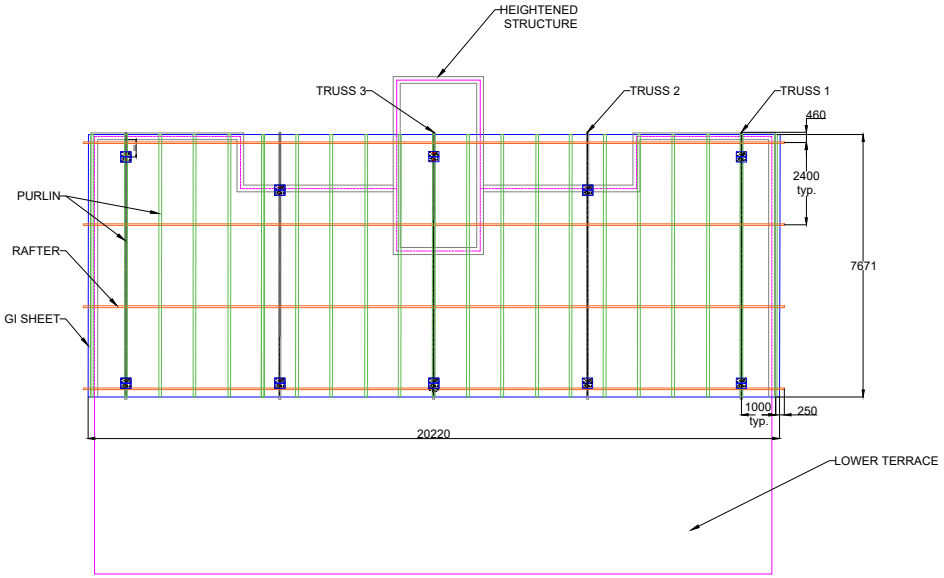
DWG. NO. AGEPL/RT/BOM/SD/R0

DATE : 03/08/2020

PAGE NO : 1 OF 1

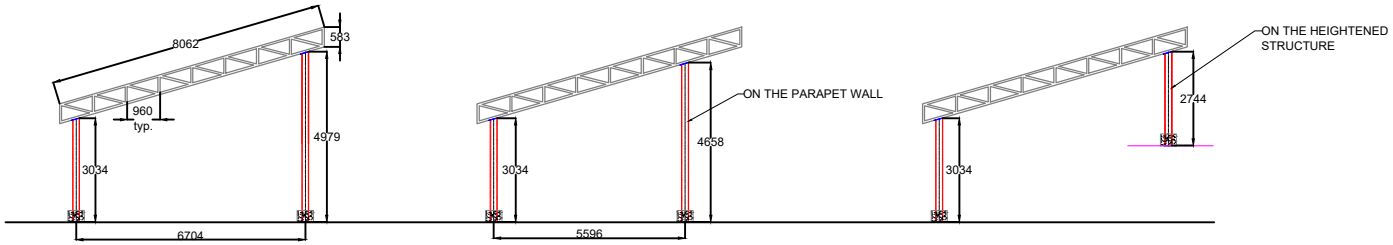


SIDE VIEW



TOP VIEW

TRUSS DETAILS
TYPE : SLOPING FLAT
SPAN : 8062mm.



NOTE :
1. ALL DIMENSIONS ARE IN mm. UNLESS MENTIONED OTHERWISE.
2. IN TRUSS-2, A COLUMN IS TO BE PLACED OVER THE PARAPET WALL.
3. IN TRUSS-3, A COLUMN IS TO BE PLACED ON THE HEIGHTENED STRUCTURE.
4. THE HEIGHT AND WIDTH OF PARAPET WALL IS CONSIDERED 1200mm. and 200mm. RESPECTIVELY.
5. THE HEIGHT OF THE RCC STRUCTURE IS CONSIDERED 7FT. FROM THE ROOF SURFACE.

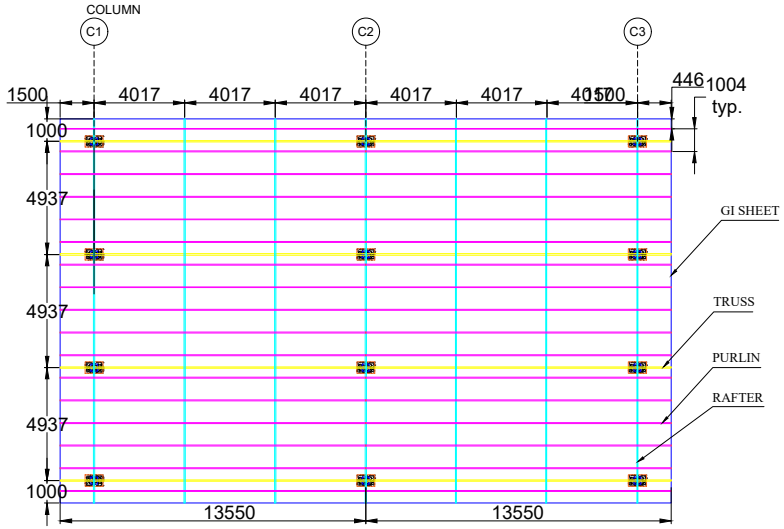
BILL OF MATERIALS

SL. NO.	ITEM	TYPE & SIZE(mm.)	LENGTH(mm.)	QUANTITY	TOTAL LENGTH(mm.)	WEIGHT/m	WEIGHT(kg.)
1)	COLUMN	I-beam MB200	3034	5	37188	24.2	900
			4979	2			
			4658	2			
			2744	1			
	RAFTER	Rec. tube 100x50x4	20220	4	80880	8.59	695
	PURLIN	Rec. tube 80x40x4	7671	21	161091	6.71	1081
	BASEPLATE	HR plate 300x300x10		20		7.065/plate	141
	TOTAL WEIGHT(kg.)						**2817**

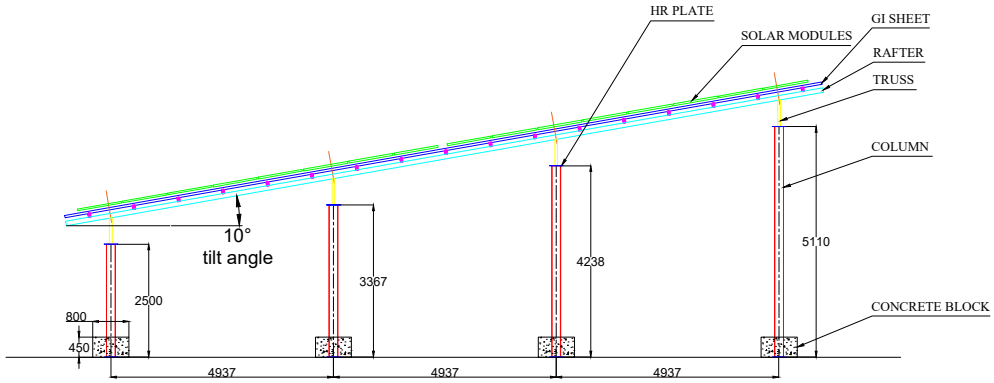
PROJECTION		DRAWN	S V D		TITLE :	18.09kWp SUPER-STRUCTURE PLAN	
SCALE	NTS	CHECKED	G S S		PROJECT :	SOLAR ROOFTOP POWER PLANT	
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank of Maharashtra, PIMPRI, Pune	

ARUSHI GREEN ENERGY (I) PVT LTD.,
415, 1st Block, Rajajinagar, Bengaluru-10.

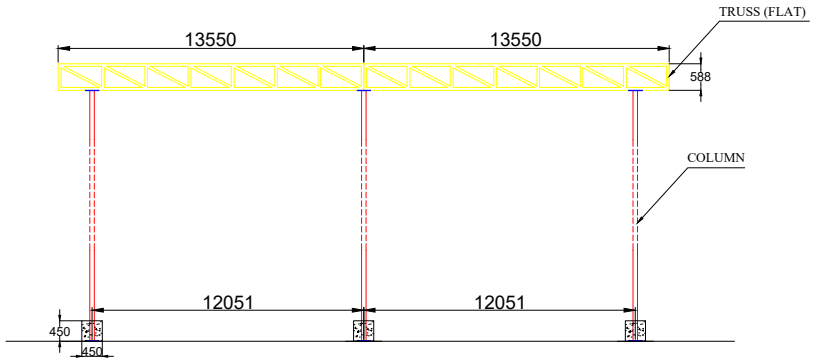
DATE :	03/08/2020	DWG. NO.	AGEPL/RT/BOM/SD/R0
PAGE NO :	1 OF 1		



TOP VIEW



SIDE VIEW



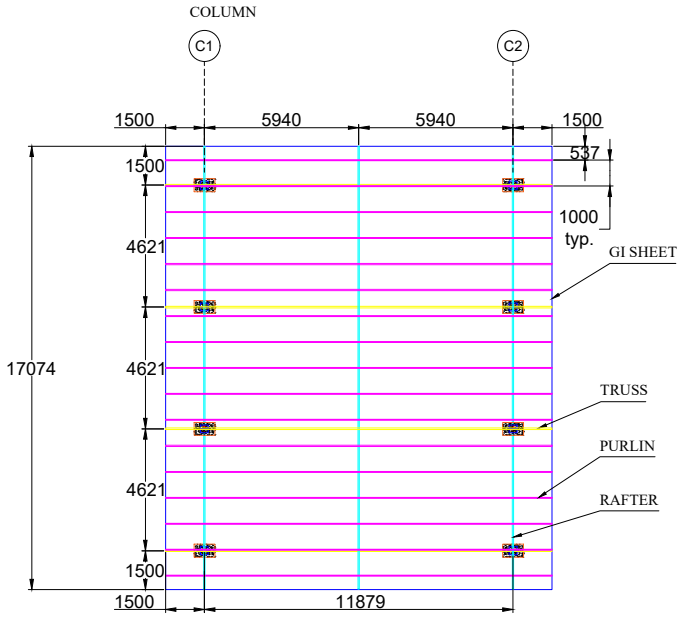
TRUSS DETAILS

STRUCTURE FOR ARRAY - S1

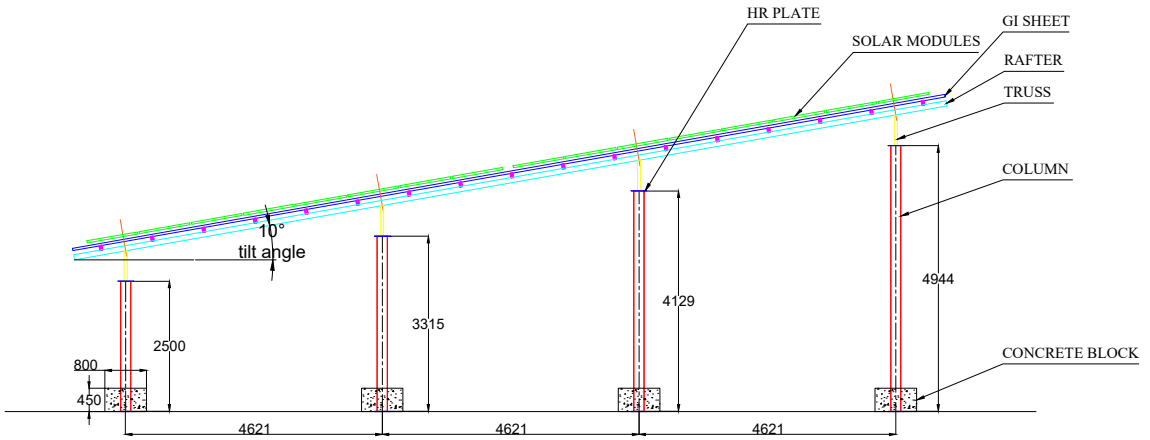
NOTE:

1. ALL DIMENSIONS ARE IN MM. UNTIL MENTIONED OTHERWISE.
2. NO. OF MODULES - 208

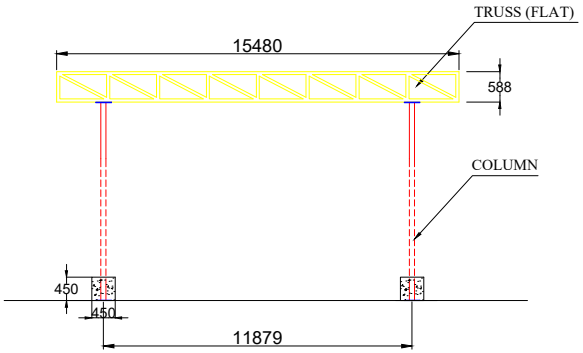
PROJECTION		DRAWN	C D A		TITLE :	STRUCTURE PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 31/10/2020
SCALE	NTS	CHECKED	E L K		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank Of Maharastra, Lokmangal, Pune.	DWG. NO. AGEPL/RT/BOM_LKM/SP_S1/R0	PAGE NO : 1 OF 1



TOP VIEW



SIDE VIEW



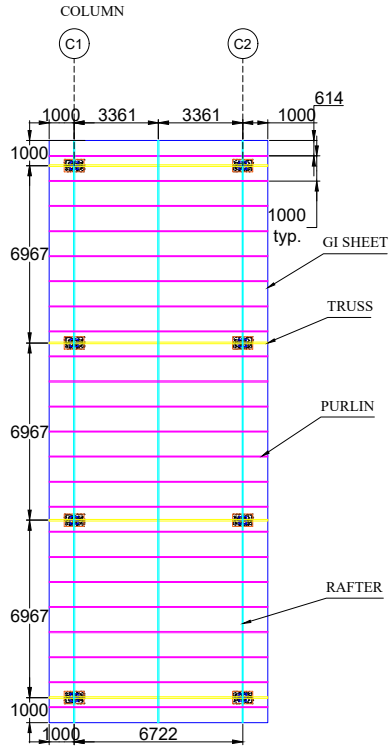
TRUSS DETAILS

STRUCTURE FOR ARRAY - S2

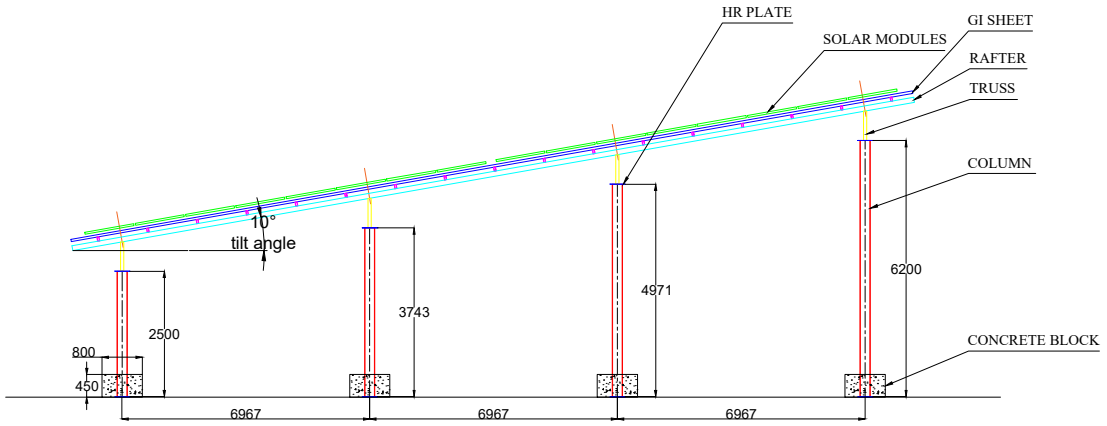
NOTE:

1. ALL DIMENSIONS ARE IN MM. UNTIL MENTIONED OTHERWISE.
2. NO. OF MODULES - 112

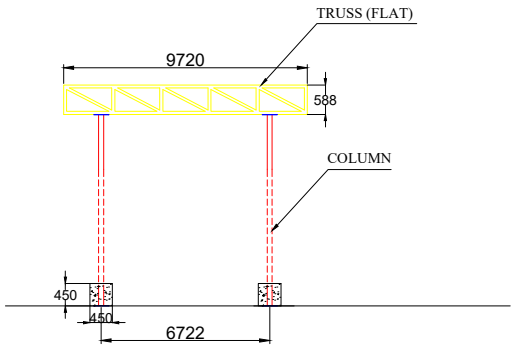
PROJECTION		DRAWN	C D A		TITLE :	STRUCTURE PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 31/10/2020
SCALE	NTS	CHECKED	E L K		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank Of Maharastra, Lokmangal, Pune.	DWG. NO. AGEPL/RT/BOM_LKM/SP_S2/R0	PAGE NO : 1 OF 1



TOP VIEW



SIDE VIEW



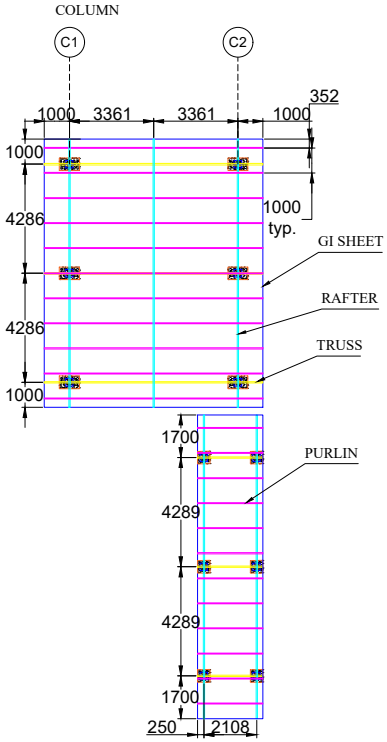
TRUSS DETAILS

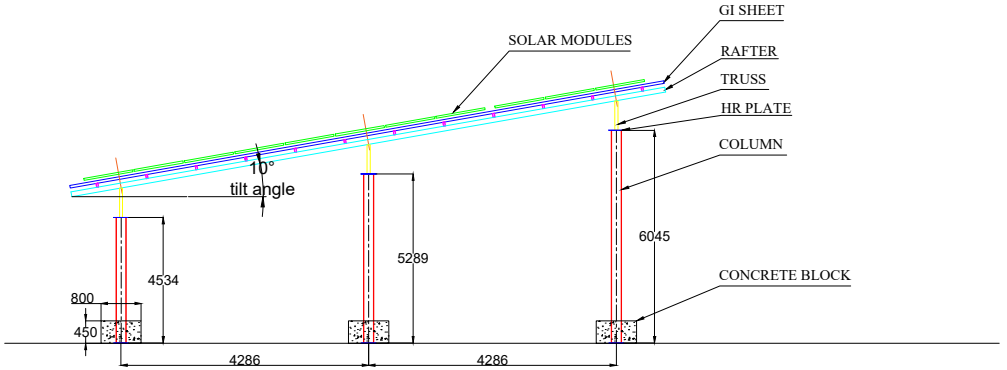
STRUCTURE FOR ARRAY - S3

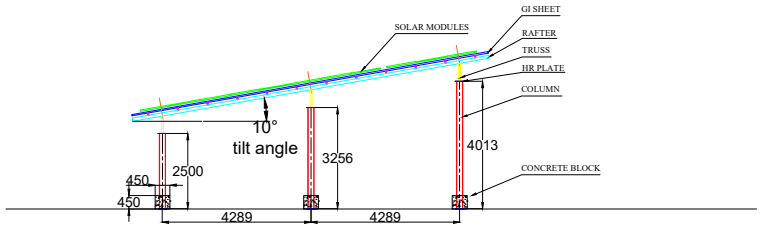
NOTE:

1. ALL DIMENSIONS ARE IN MM. UNTIL MENTIONED OTHERWISE.
2. NO. OF MODULES - 88

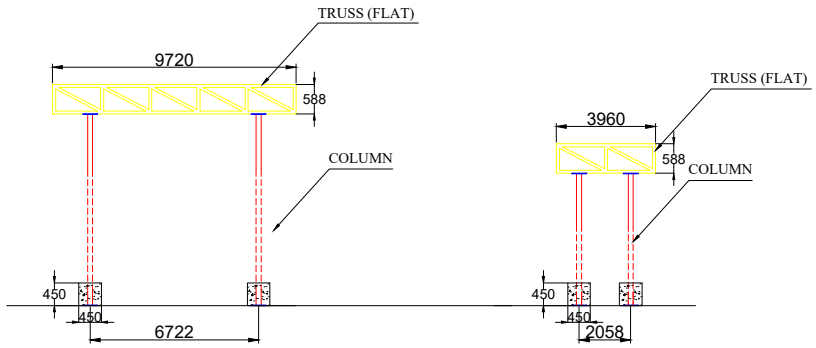
PROJECTION		DRAWN	C D A		TITLE :	STRUCTURE PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 31/10/2020
SCALE	NTS	CHECKED	E L K		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank Of Maharastra, Lokmangal, Pune.	DWG. NO. AGEPL/RT/BOM_LKM/SP_S3/R0	PAGE NO : 1 OF 1







SIDE VIEW

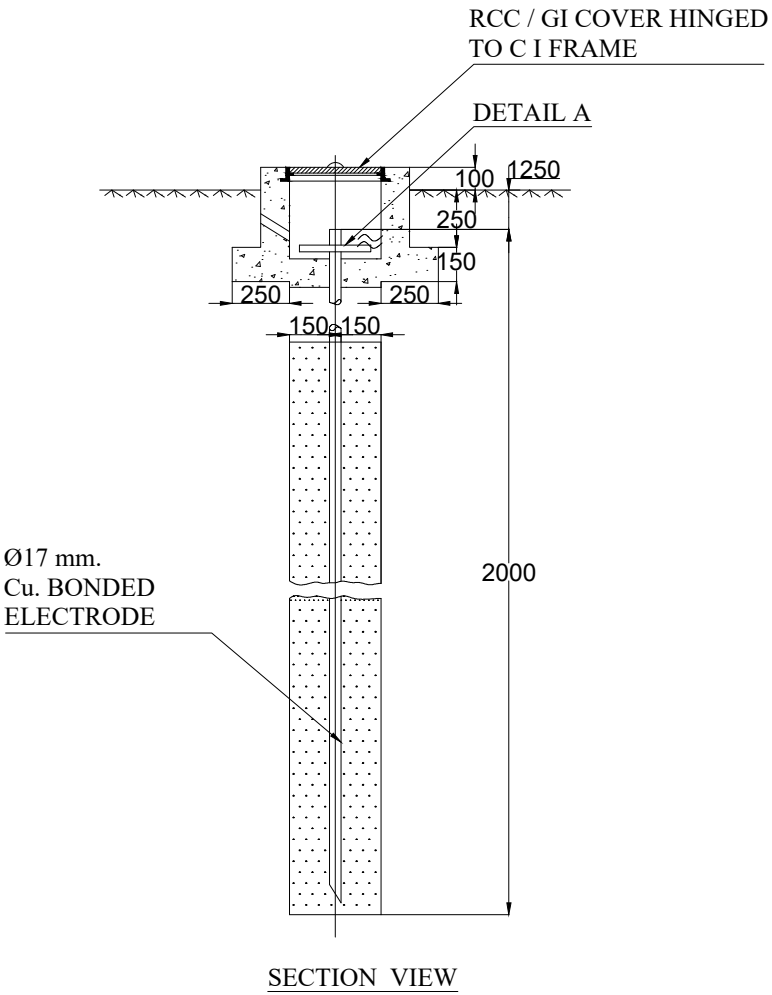


STRUCTURE FOR ARRAY - S4

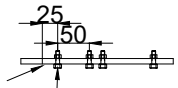
NOTE:

1. ALL DIMENSIONS ARE IN MM. UNTIL MENTIONED OTHERWISE.
2. NO. OF MODULES - 52

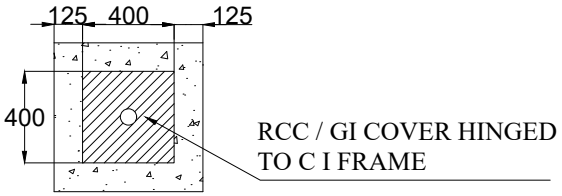
PROJECTION		DRAWN	C D A		TITLE :	STRUCTURE PLAN	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 31/10/2020
SCALE	NTS	CHECKED	E L K		PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K		CUSTOMER :	M/s Bank Of Maharastra, Lokmangal, Pune.	DWG. NO. AGEPL/RT/BOM_LKM/SP_S4/R0	PAGE NO : 1 OF 1



SECTION VIEW



DETAIL A



TOP VIEW

EARTHING SPECIFICATIONS :

Electrode :
Material - Cu. Bonded
Diameter - Ø17 mm.
Length - 2 m. long

Earthing Chemical / Enhancement compound :
15- 25 kg.

— CONCRETE

— EARTHING CHEMICAL

— RCC / GI

FIG 1: EARTH PIT AS PER
IEC 3043-1987 STANDARD AND EARTHING
PROTECTION AS PER IEC 60364

NOTE :
1) ALL DIMENSIONS ARE IN MM. UNTIL MENTIONED OTHERWISE.
2) GIVEN EARTHING DETAILS IS COMMON FOR ALL THE SITES.

PROJECTION		DRAWN	S V D	TITLE :	EARTHING DETAILS	ARUSHI GREEN ENERGY (I) PVT LTD., # 415, 1st Block, Rajajinagar, Bengaluru-10.	DATE : 31/10/2020
SCALE	NTS	CHECKED	G S S	PROJECT :	SOLAR ROOFTOP POWER PLANT		
MATERIAL	VARIES	APPROVED	S N K	CUSTOMER :	M/s Bank of Maharashtra, Pune	DWG. NO. AGEPL/RT/BOM/ELP/R0	PAGE NO : 1 OF 1