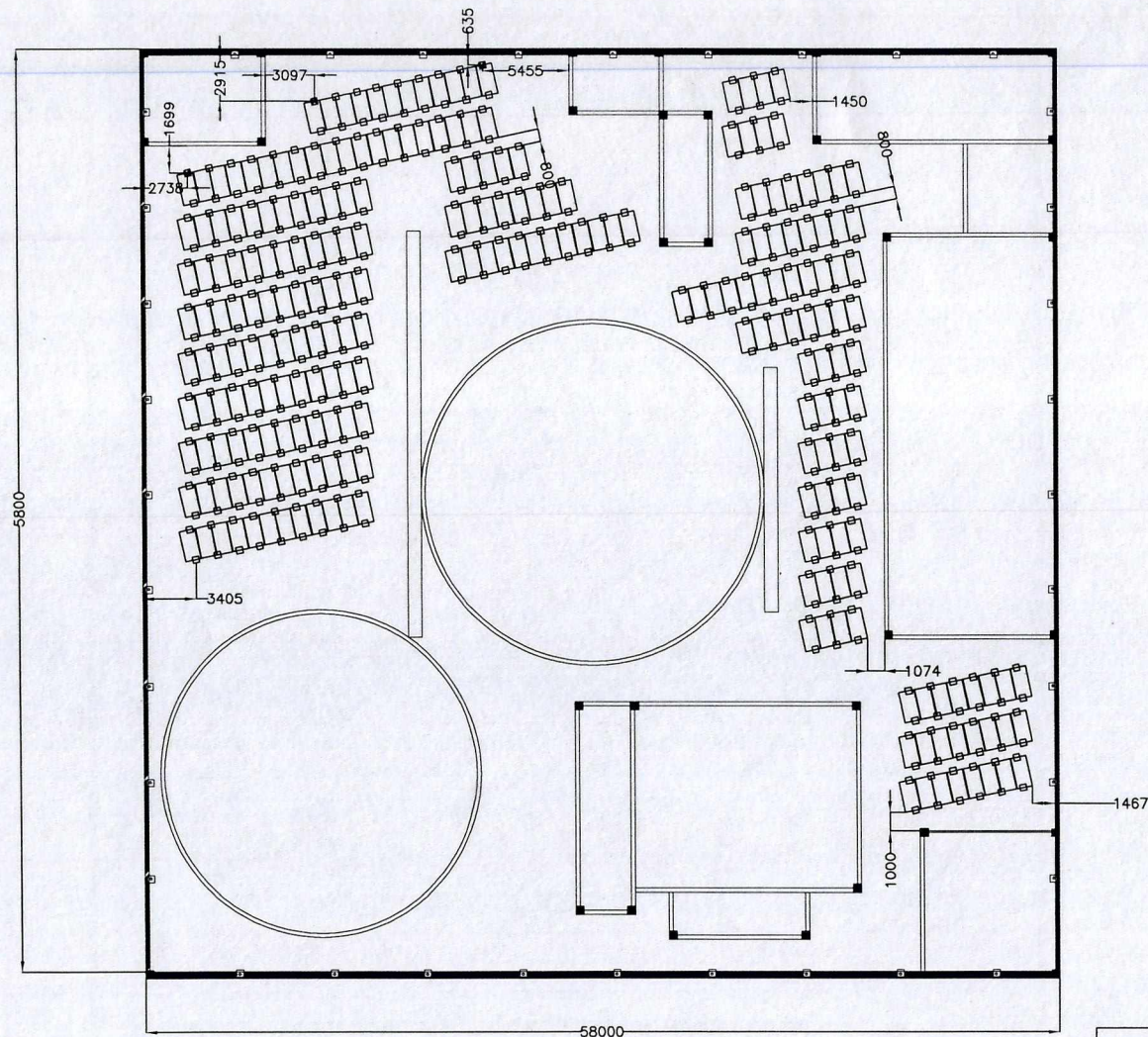


FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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DRAWING NO.



Site Name:- ADMIN BUILDING
No. of Modules:- 249
Rating of Modules:- 330Wp
Plant Capacity:- 80kWp

NOTE:
1. This is a indicative drawings only.
2. Final drawings shall be submitted before statr of work at site.
3. Building wise number of Module may change.

CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV				PROJECT/PRODUCT 360KW ON -GRID ROOF TOP POWER PLANT VTU			
 BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR				NAME	SIGN.	DATE	NO. OF VAR.
				DRN.	-YOGESH	07.02.20	
				CKD.	-ALOK	07.02.20	
				APPD.	-AYAN	07.02.20	
DEPTT. REG				UNTOL.DIM.GR.	SCALE	WEIGHT-KG	REV.
				-	N.T.S	-	
TITLE LAYOUT OF ADMIN BUILDING				DRAWING NO. 3 3 03 20 00 001			
				SHEET NO.- 01 NO.OF SHEETS- 05 SIZE- A3			

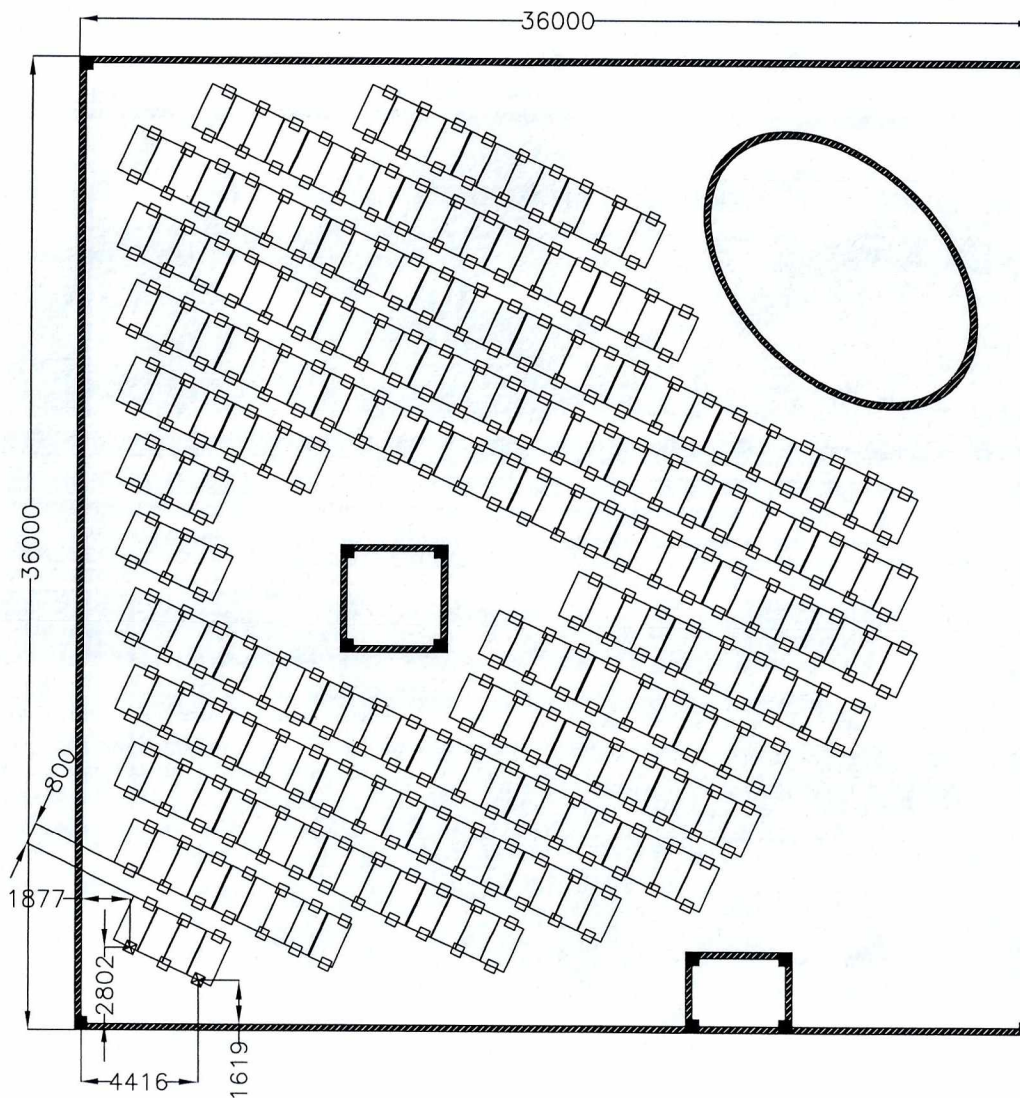
FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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COPYRIGHT & CONFIDENTIAL

DRAWING NO.



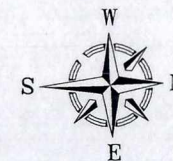
Site Name:- LIBRARY BUILDING
No. of Modules:- 249
Rating of Modules:- 330Wp
Plant Capacity:- 80kWp

NOTE:

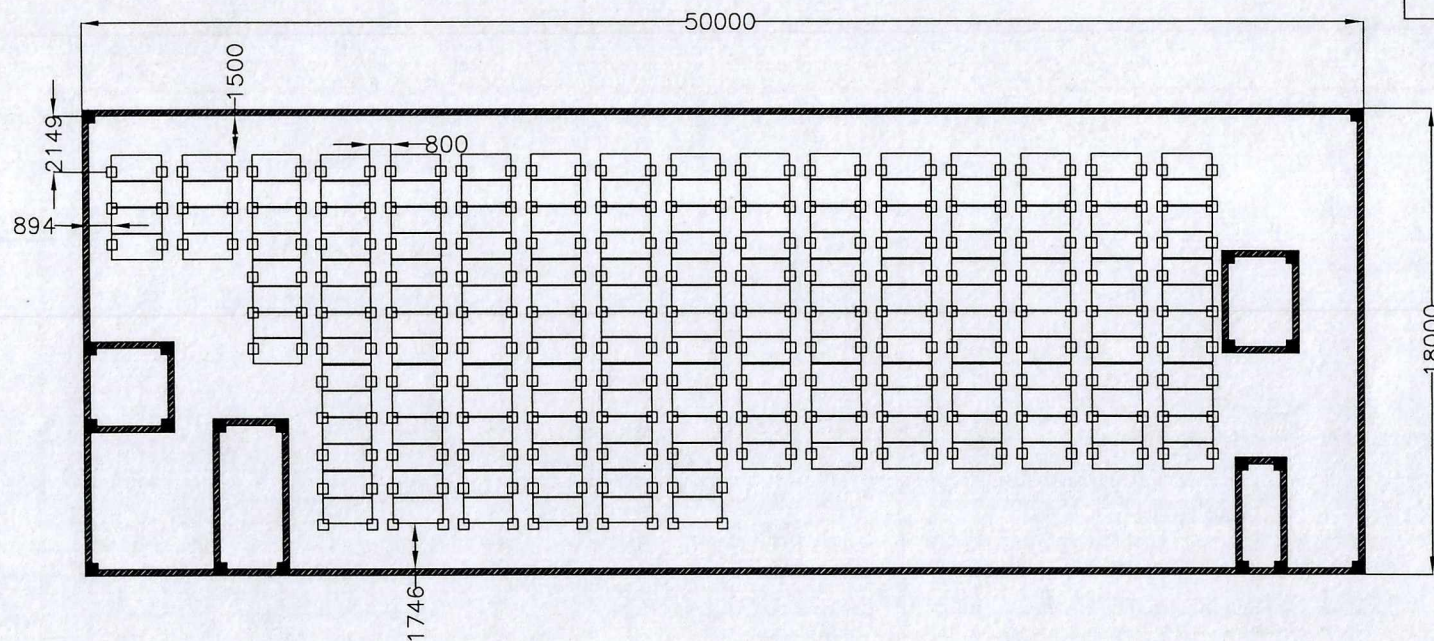
1. This is a indicative drawings only.
2. Final drawings shall be submitted before statr of work at site.
3. Building wise number of Module may change.

CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT 360KW ON -GRID ROOF TOP POWER PLANT VTU			
	BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE
			DRN.	-YOGESH	07.02.20
			CKD.	-ALOK	07.02.20
			APPD.	-AYAN	07.02.20
REV.	DATE	ALTERD CHECKED	DEPTT. REG	UNTOL.DIM.GR.	SCALE
					N.T.S
TITLE LAYOUT OF LIBRARY BUILDING			WEIGHT-KG	REF.TO ASSY.DRG.	IT.NO.
			DRAWING NO.	REV.	
			3 3 03 20 00 00	00	
			SHEET NO.- 02	NO.OF SHEETS- 05	SIZE- A3

DRAWING NO.



Site Name:— ENGINEERING BUILDING
 No. of Modules:— 184
 Rating of Modules:— 330Wp
 Plant Capacity:— 60kWp



NOTE:

1. This is a indicative drawings only.
2. Final drawings shall be submitted before statr of work at site.
3. Building wise number of Module may change.

CUSTOMER — VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT — 360KW ON - GRID ROOF TOP POWER PLANT VTU					
	BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE	NO. OF VAR.	
			DRN.	—NEERAJ	—	06/02/20	—
			CKD.	—ALOK	—	06/02/20	—
DEPTT. REG		UNTOL.DIM.GR.	—	SCALE	N.T.S	WEIGHT—KG	—
REV.		DATE	ALTERD	CHEKED	REF. TO ASSY.DRG.		
TITLE		LAYOUT OF ENGINEERING BUILDING			DRAWING NO.	3 3 03 20 00 001	REV.
					SHEET NO.— 03	NO.OF SHEETS— 05	SIZE— A3

FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

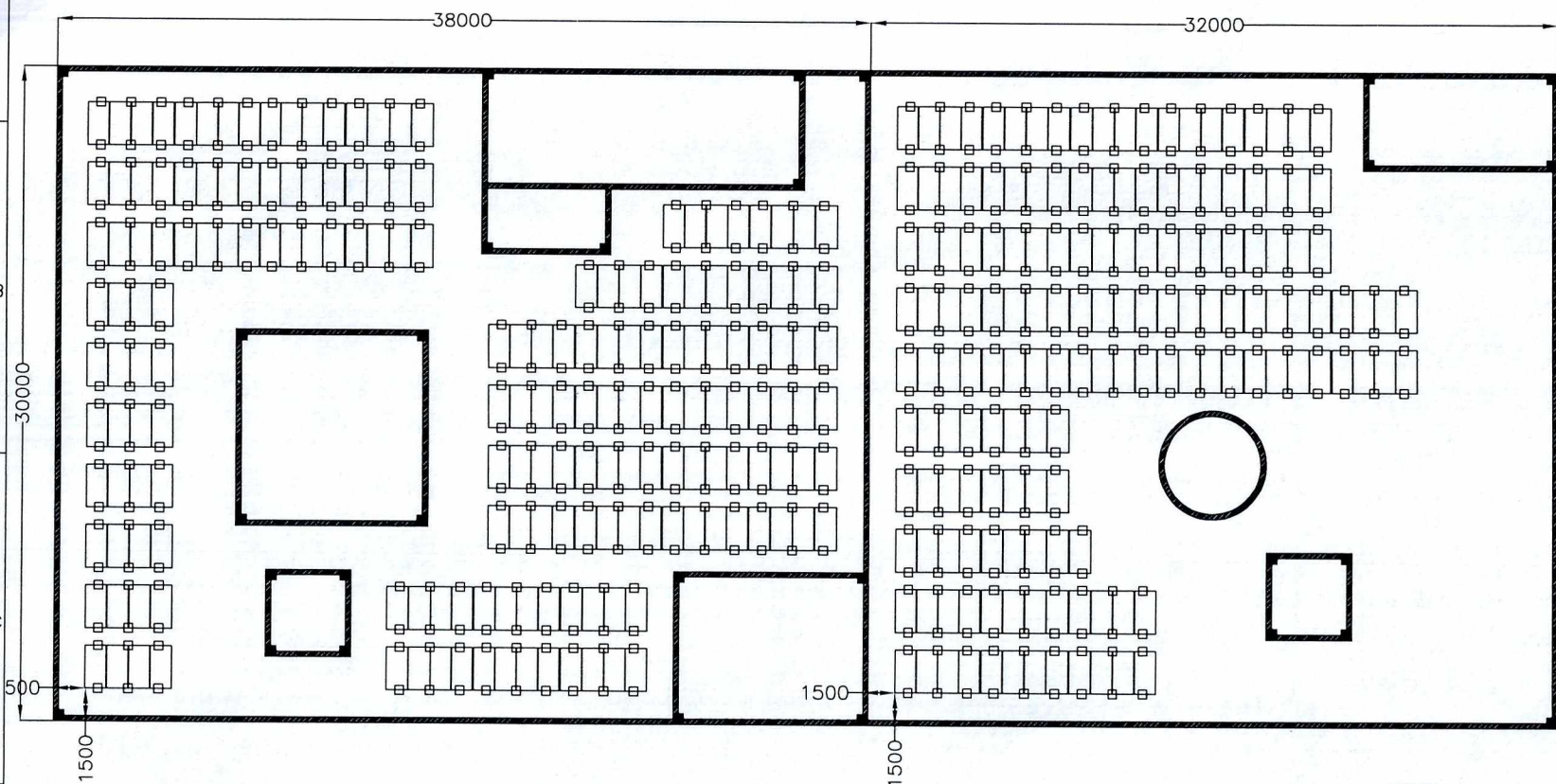
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45

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DRAWING NO.

Site Name:- PG BLOCK 1
 No. of Modules:- 341
 Rating of Modules:- 330Wp
 Plant Capacity:- 110kWp

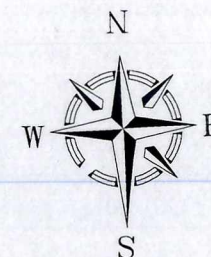


- NOTE:
1. This is a indicative drawings only.
 2. Final drawings shall be submitted before statr of work at site
 3. Building wise number of Module may change.

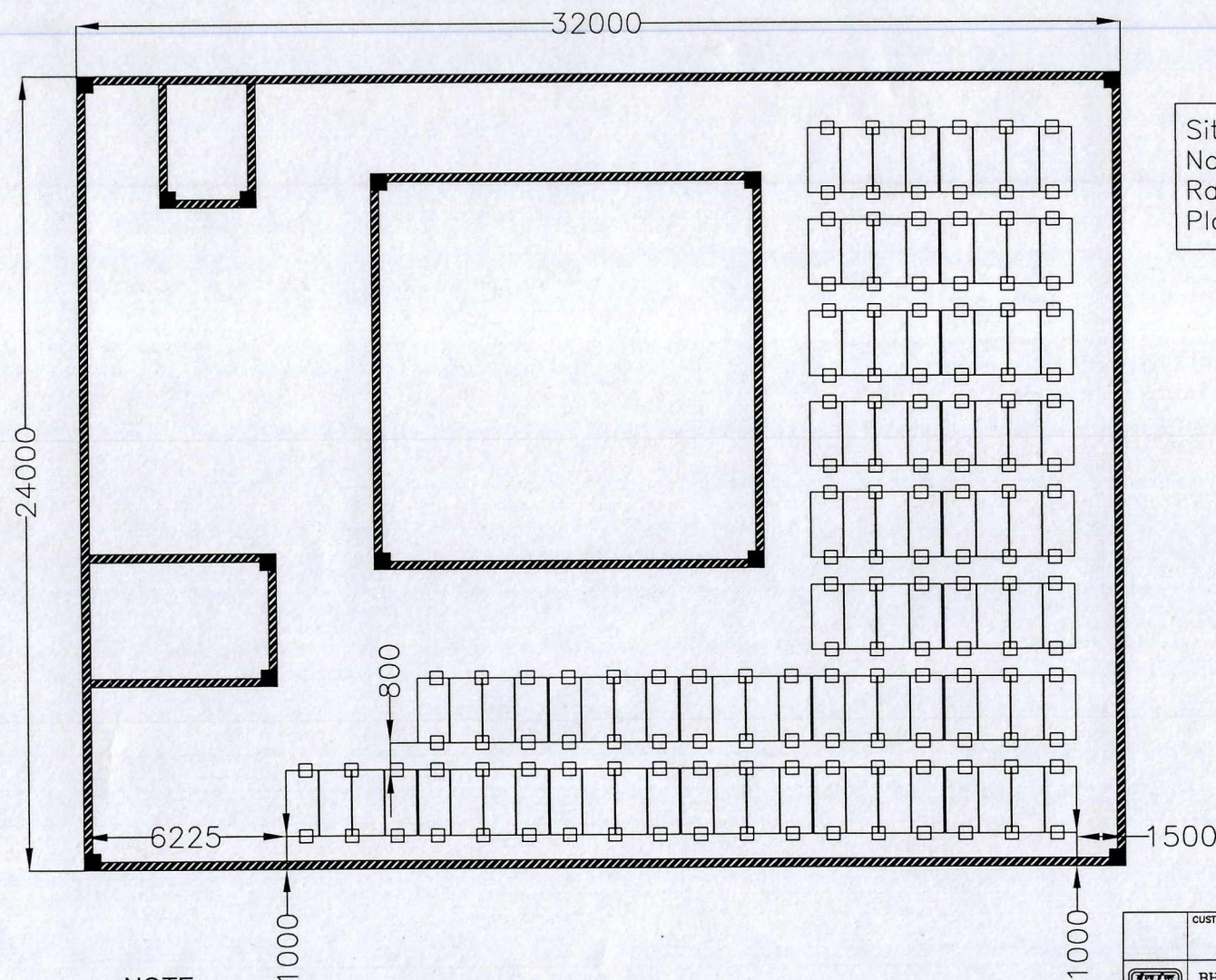
REV.	DATE	ALTERD CHECKED

CUSTOMER — VISVESVARAYA TECHNOLOFICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT — 380KW ON — GRID ROOF TOP POWER PLANT VTU				
	BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE	NO. OF VAR.
			DRN.	—NEERAJ	06/02/20	
			CKD.	—ALOK	06/02/20	
			APPD.	—AYAN	06/02/20	
DEPTT. REG	UNTOLDIM.GR.	SCALE N.T.S	WEIGHT-KG	REF.TO ASSY.ORG.	IT.NO.	NO.OF ITEM
TITLE — LAYOUT OF PG BUILDING 1-1,1-2				DRAWING NO.	REV.	
				3 3 01 17 01 001	00	
				SHEET NO. — 04	NO.OF SHEETS — 05	SIZE — A3

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Site Name:—	PG BLOCK 2
No. of Modules:—	92
Rating of Modules:—	330Wp
Plant Capacity:—	30kWp



NOTE:

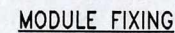
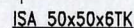
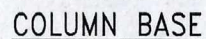
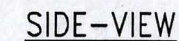
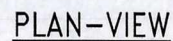
1. This is a indicative drawings only.
2. Final drawings shall be submitted before statr of work at site.
3. Building wise number of Module may change.

1000

			CUSTOMER—VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV			PROJECT/PRODUCT— 360KW ON – GRID ROOF TOP POWER PLANT VTU				
			BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR			DRN.	NAME	SIGN.	DATE	NO. OF VAR.
						CKD.	—NEERAJ		06/02/20	
						APPD.	—ALOK		06/02/20	
							—ATAN		06/02/20	
REV.	DATE	ALTERD CHECKED	DEPTT. REG	UNTOLDIM.GR. —		SCALE N.T.S	WEIGHT-KG —	REF.TO ASSY.DRG. —	IT.NO. —	NO.OF ITEM
			TITLE			DRAWING NO.				REV.
			LAYOUT OF PG BLOCK-2			3 3 03 20 00 001				00
						SHEET NO.— 05		NO.OF SHEETS— 05		SIZE— A

INVENTORY NO.

DRAWING NO.



1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. DO NOT SCALE THE DRAWING.
3. GRADE OF CONCRETE IS M25 FOR CONCRETE BLOCK.
4. CHIPPING UPTO RCC SLAB IS MUST DURING CONCRETE BLOCK FIXING.
5. SUITABLE BONDING AGENT TO BE USED BETWEEN CONCRETE BLOCK BASE SURFACE AND RCC ROOF.

BILL OF MATERIAL					
IT.NO.	DESCRIPTION	QTY	UNIT	REMARKS	REF DRG
001	SOLAR MODULE	4	NOS.		
002	WATER FRAME WITH BASE PLATE (ISA 50x50x400)	3	NOS.	S/808-1989	S/191000002 WAR-
003	PURLIN C-UP 50x50x2 - 4000 L	2	NOS.	S/811-1975	S/191000002 IT-00
004	COUPLER ANGLE 50x50x2.5	6	NOS.	S/811-1975	
005	FASTENER SET SCREW HEX M8-20	48	NOS.		
006	ANCHOR FASTENER (U-BOLT) M10-200 L	24	NOS.		
007	CONCRETE BLOCK 400x400x400	6	NOS.		

CUSTOMER		9. RES.	
VISVESVARAYA TECHNOLOGICAL UNIVERSITY,			
BELAGAVI			

PROJECT.	360KW ON -GRID ROOF TOP POWER PLANT VTU
----------	--

BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

TITLE	MODULE MOUNTING STRUCTURE (MMS)
-------	---------------------------------

SCALE	ORDER / ENQUIRY NO.
-------	---------------------

DRAWING NO.

33032000002

SIZE -A2

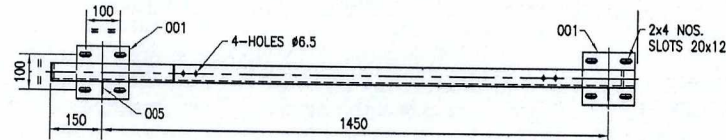
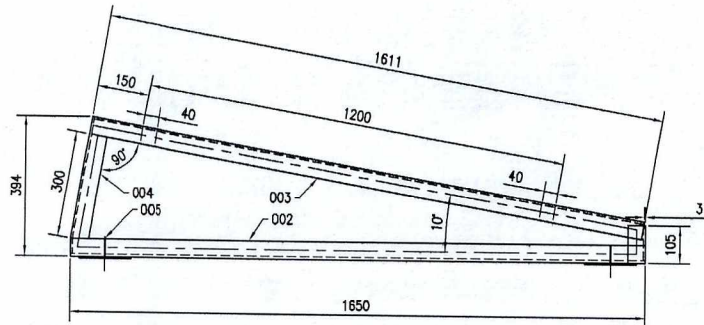
First Angle Projection

All Dimensions in 'mm'

43011900 002

DRAWING NO.

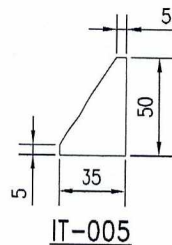
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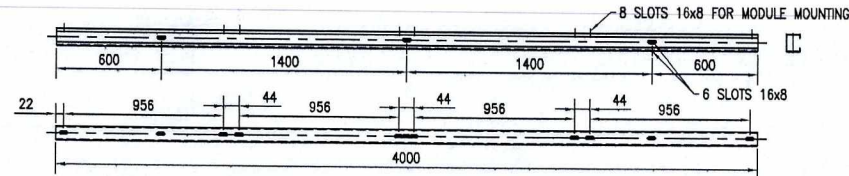
VAR-00

NOTES :-

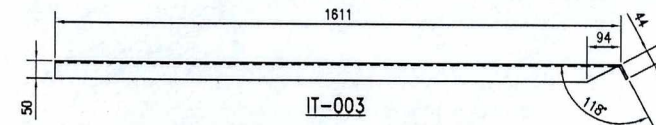
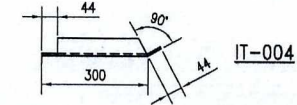
1. ALL HOT ROLLED STEEL MATERIAL ARE E250 TO IS:2062
2. ALL COLD FORM STEEL MATERIAL ARE FE 250 TO IS:811
3. ALL WELDING SHALL BE 5MM FULL FILLET, UNLESS OTHERWISE SPECIFIED.
4. AVG. GALVANIZATION THICKNESS 80 MICRONS. UNLESS OTHERWISE NOTED.
5. FOR VAR-00 : ALL JOINTS WILL BE FULL WELDED WITH 5MM FILLET.



IT-005



IT-006



WEIGHT OF VAR-00 = 19.77 KG

ITEM NO.	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL. CODE	WT(KG)
006	SEE DETAIL	006	CHANNEL C-UP 50x40x15x2.00TK -4000 LG	-	-	-	8.9600
002	SEE DETAIL	005	STEEL PLATE 6TK x 35 x 50	-	-	IS:811	0.0507
001	SEE DETAIL	004	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 300 LG	-	-	IS:2062	0.01
001	SEE DETAIL	003	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 1611 LG	-	-	IS:2062	3.6360
001	-	002	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 1650 LG	-	-	IS:2062	6.7320
002	-	001	STRG. STEEL PLATE 5TK x 150 x 150	-	-	IS:2062	7.5375
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL. CODE	WT(KG)
001	SEE DETAIL	004	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 300 LG	-	-	IS:2062	0.01
001	SEE DETAIL	003	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 1611 LG	-	-	IS:2062	3.6360
001	-	002	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 1650 LG	-	-	IS:2062	6.7320
002	-	001	STRG. STEEL PLATE 5TK x 150 x 150	-	-	IS:2062	7.5375
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL. CODE	WT(KG)
001	SEE DETAIL	004	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 300 LG	-	-	IS:2062	0.01
001	SEE DETAIL	003	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 1611 LG	-	-	IS:2062	3.6360
001	-	002	STRG. STEEL ANGLE - ISA 50 x 50 x 6TK x 1650 LG	-	-	IS:2062	6.7320
002	-	001	STRG. STEEL PLATE 5TK x 150 x 150	-	-	IS:2062	7.5375

BILL OF QUANTITY

CUSTOMER
VISHVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVPROJ INFO
360KW ON -GRID ROOF TOP
POWER PLANT VTU

BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

TITLE

MANUFACTURING

SCALE

NTS

ORDER / ENQUIRY NO.

-TILT ANGEL 10°

DRAWING NO.

33032000002

REV.

00

SIZE -A3

Computer File:- PC: Naraaj Path: \\dc\SOLAR\2019-2020\2. Orders\4. VTU Belagum\505-04\2. Submitted to Customer\Final Submission\DRAWING FINAL\0. MANS\10 DEGREE STRUCTURE DRAWING\VTU STRUCTURE.dwg
Printed On : 12-Feb-20 9:25:26 AM

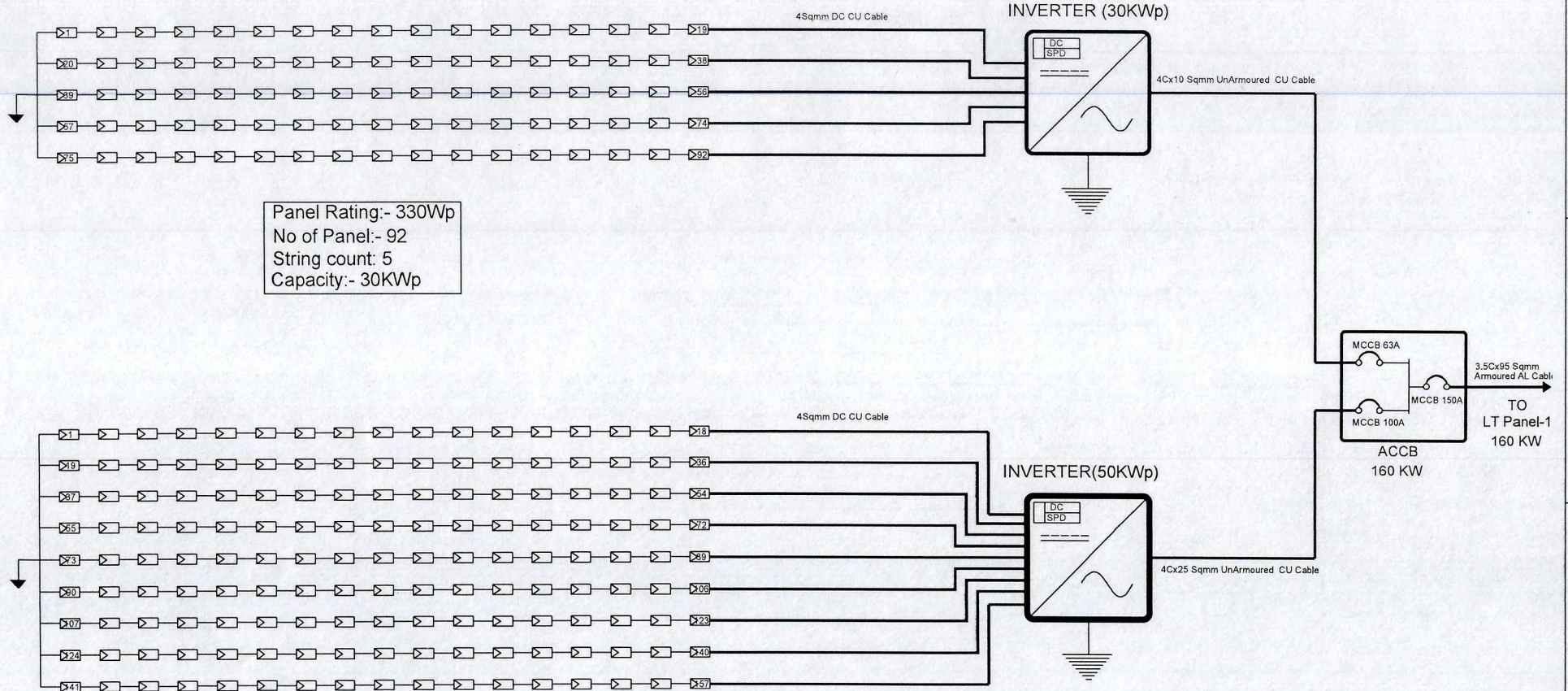
FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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DRAWING NO.



NOTE:

1. This is a indicative drawings only.
2. Final drawings shall be submitted before start of work at site.
3. Building wise number of Module may change.
4. DC side protection is inbuilt in String Inverter.

CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT 360KW ON -GRID ROOF TOP POWER PLANT VTU			
BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE	NO. OF VAR.
DRN.		NEERAJ	-SD-	06/02/20	
CKD.		ALOK	-SD-	06/02/20	
APPD.		AYAN	-SD-	06/02/20	
REF. TO ASSY.DRG.		IT.NO.			NO. OF ITEM
DRAWING NO.		3 3 03 20 01 002			REV.
SHEET NO.- 01		NO. OF SHEETS- 06		SIZE- A3	

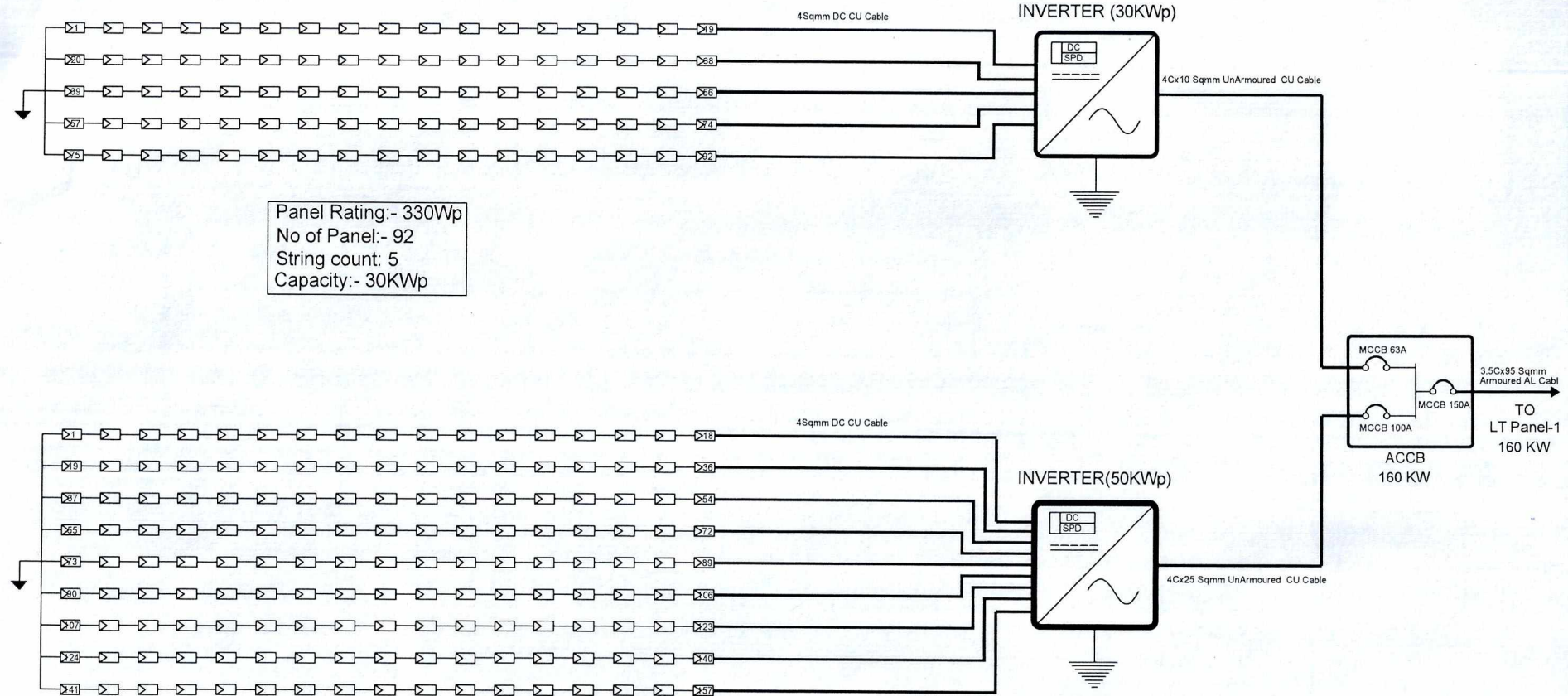
REV.	DATE	ALTERD CHEKED	DEPTT. REG	UNTOLDIM.GR.	SCALE	WEIGHT-KG
					N.T.S	

TITLE
SINGLE LINE DIAGRAM FOR 80 kWp AT
ADMIN BUILDING

FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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Panel Rating:- 330Wp
No of Panel:- 92
String count: 5
Capacity:- 30KWp

Panel Rating:- 330Wp
No of Panel:- 157
String count: 9
Capacity:- 50KWp

NOTE:

1. This is a indicative drawings only.
2. Final drawings shall be submitted before start of work at site.
3. Building wise number of Module may change.
4. DC side protection is inbuilt in String Inverter.

REV.	DATE	ALTERD CHECKED

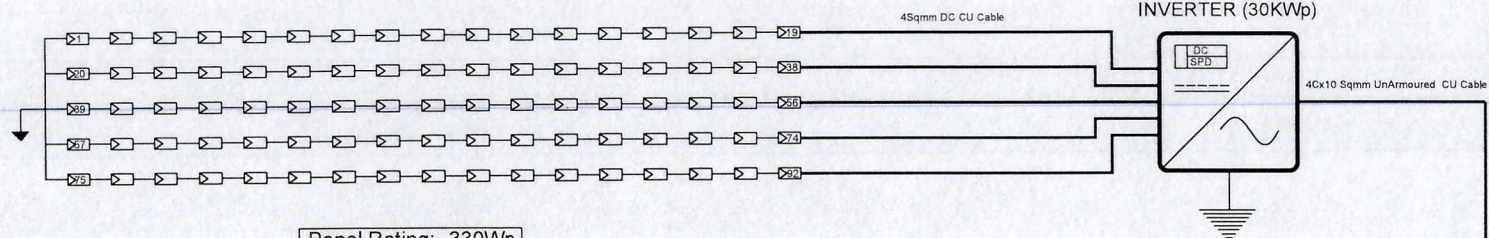
CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT 360KW ON –GRID ROOF TOP POWER PLANT VTU						
	BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE	NO. OF VAR.		
			DRN.	NEERAJ	~SD~		06/02/20	
			CKD.	ALOK	~SD~		06/02/20	
			APPD.	AYAN	~SD~		06/02/20	
DEPTT. REG	UNTOLDIM.GR. —		SCALE N.T.S	WEIGHT—KG —	REF.TO ASSY.DRG.	IT.NO. —	NO.OF ITEM	
TITLE SINGLE LINE DIAGRAM FOR 80 kWp AT LIBRARY BUILDING					DRAWING NO. 3 3 03 20 01 002 00		REV.	
					SHEET NO.— 02		NO.OF SHEETS— 06	SIZE— A3

FIRST ANGLE PROJECTION

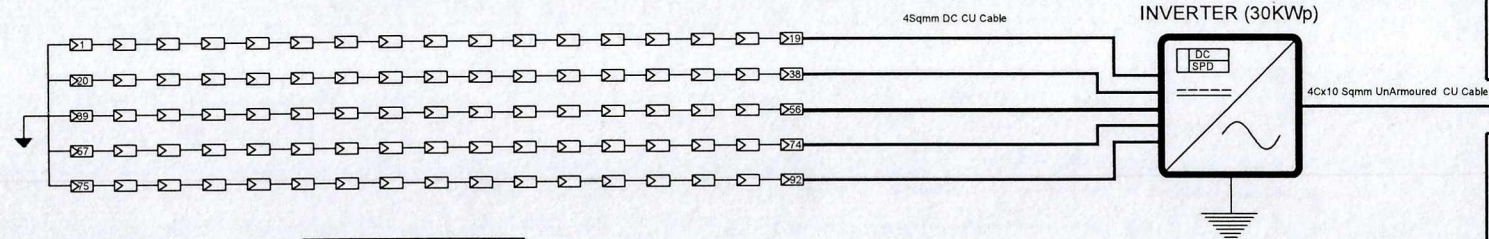
ALL DIMENSIONS IN MILLIMETER

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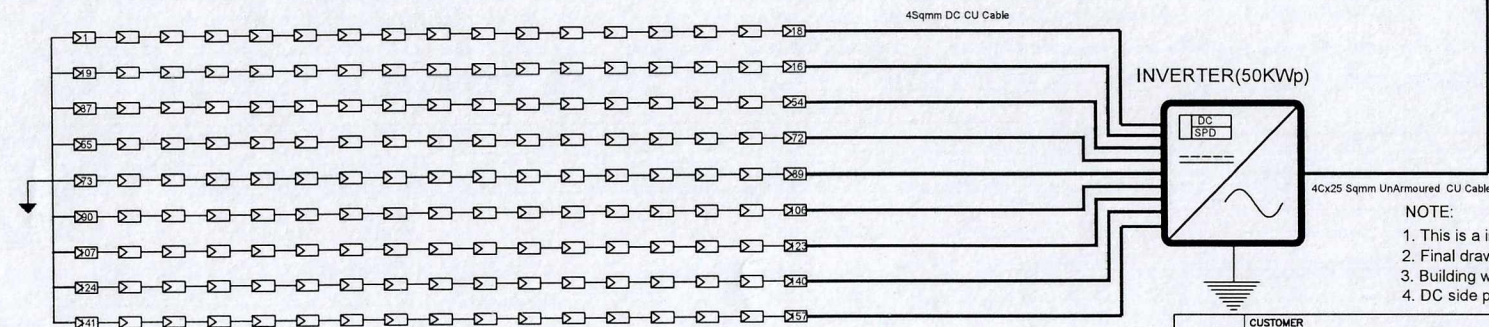
DRAWING NO.



Panel Rating:- 330Wp
No of Panel:- 92
String count: 5
Capacity:- 30KWp



Panel Rating:- 330Wp
No of Panel:- 92
String count: 5
Capacity:- 30KWp



Panel Rating:- 330Wp
No of Panel:- 157
String count: 9
Capacity:- 50KWp

NOTE:

1. This is an indicative drawing only.
2. Final drawings shall be submitted before start of work at site.
3. Building wise number of modules may change.
4. DC side protection is inbuilt in String Inverter.

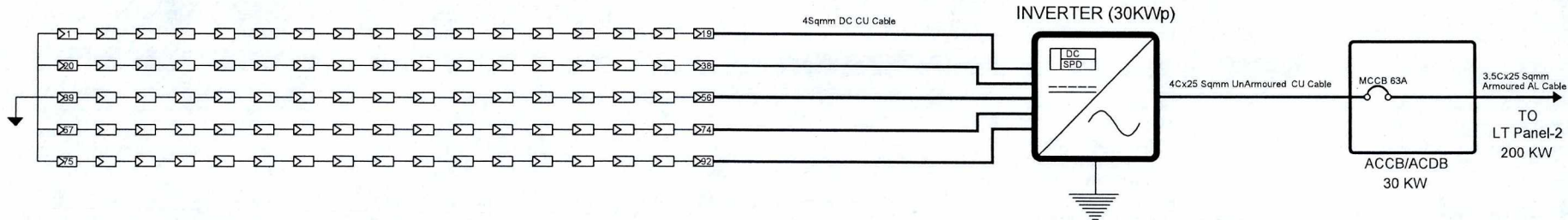
CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV				PROJECT/PRODUCT 360KW ON - GRID ROOF TOP POWER PLANT VTU			
BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR				NAME	SIGN.	DATE	NO. OF VAR.
DRN.				NEERAJ	-SD-	06/02/20	
CKD.				ALOK	-SD-	06/02/20	
APPD.				RYAN	-SD-	06/02/20	
REF. TO ASSY. DRG.				IT. NO.			NO. OF ITEM
TITLE SINGLE LINE DIAGRAM FOR 110 kWp AT PG BLOCK-I				DRAWING NO.			REV.
				3 3 01 17 01 002			00
SHEET NO.- 03				NO. OF SHEETS- 06			SIZE- A3

REV.	DATE	ALTERD CHECKED	DEPT. REG	UNTOL. DIM. GR.	SCALE	WEIGHT-KG
					N.T.S	

FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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Panel Rating:- 330Wp
No of Panel:- 92
String count: 5
Capacity:- 30KWp

NOTE:

1. This is a indicative drawings only.
2. Final drawings shall be submitted before start of work at site.
3. Building wise number of Module may change.
4. DC side protection is inbuilt in String Inverter.

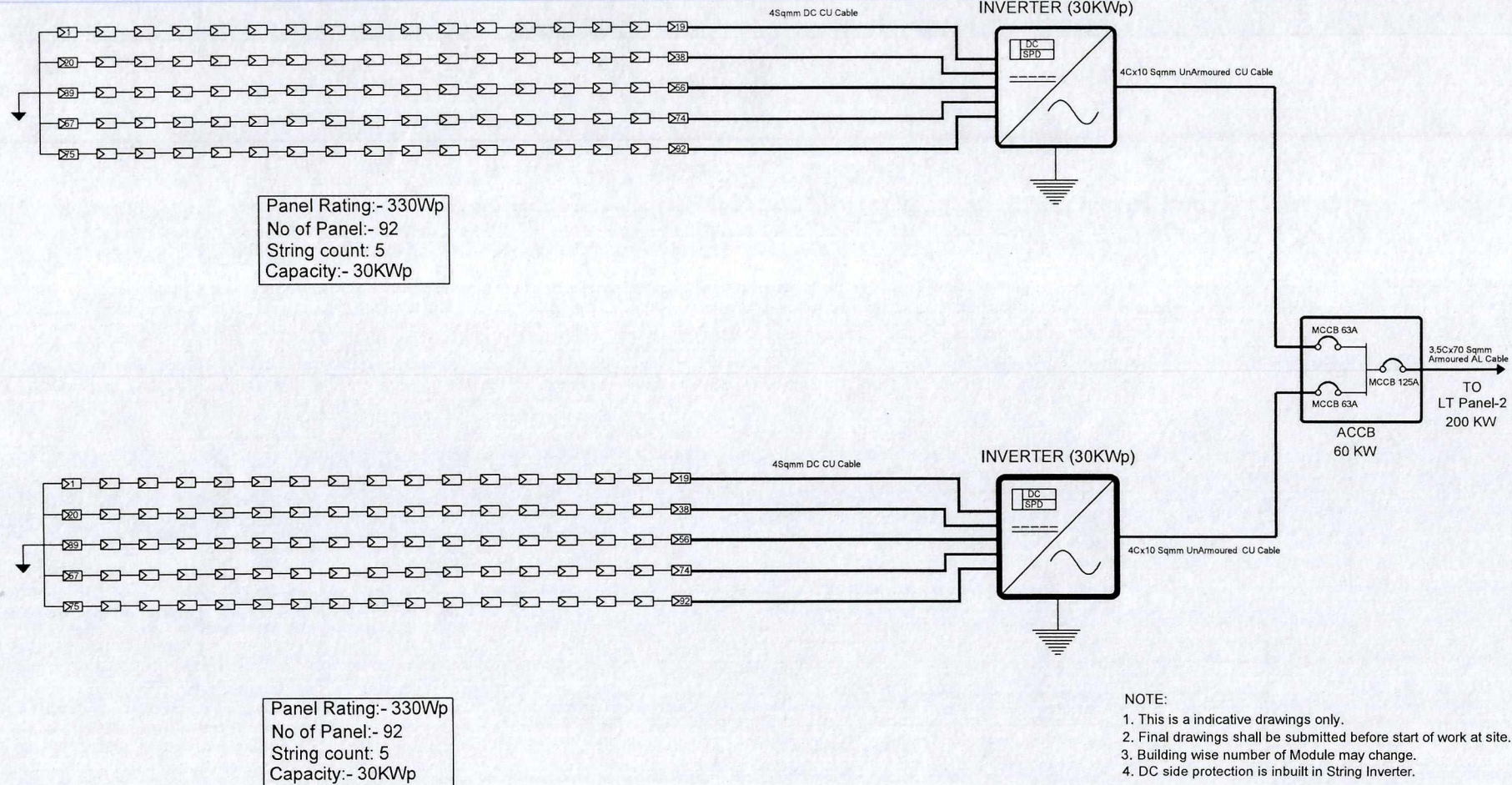
			CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV			PROJECT/PRODUCT 360KW ON –GRID ROOF TOP POWER PLANT VTU						
			BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR			NAME SIGN.		DATE	NO. OF VAR.			
						DRN.		NEERAJ	–SD–	06/02/20		
						CKD.		ALOK	–SD–	06/02/20		
						APPD.		AYAN	–SD–	06/02/20		
DEPTT. REG		UNTOL.DIM.GR. —		SCALE N.T.S		WEIGHT–KG —		REF.TO ASSY.DRG. —		IT.NO. —	NO.OF ITEM	
TITLE SINGLE LINE DIAGRAM FOR 30 kWp AT PG BLOCK-2						DRAWING NO. 3 3 01 17 01 002			REV. 00			
						SHEET NO.– 04			NO.OF SHEETS– 06		SIZE– A3	

FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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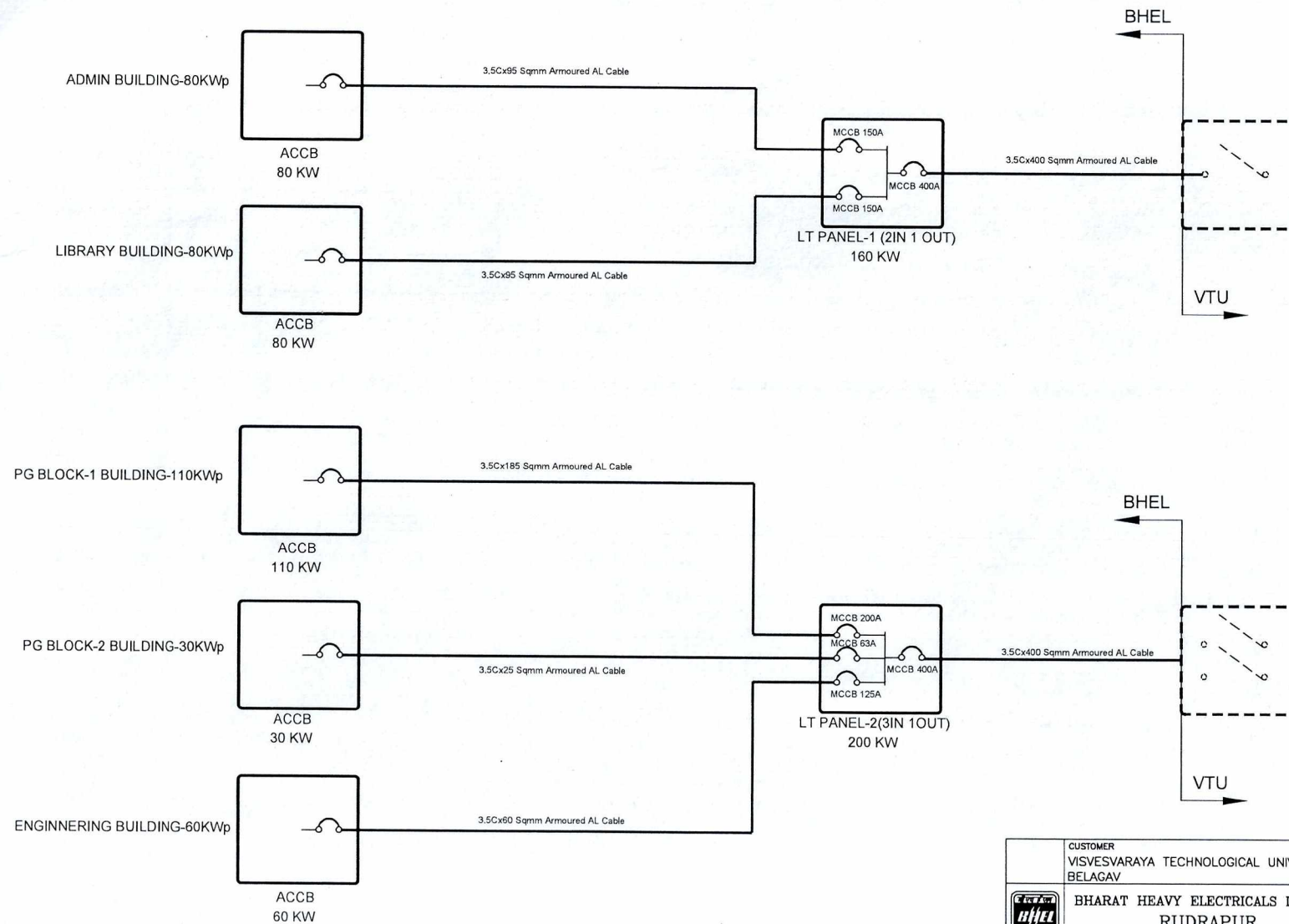
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NOTE:

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2. Final drawings shall be submitted before start of work at site.
3. Building wise number of Module may change.

REV.	DATE	ALTERD CHECKED

CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT 360KW ON –GRID ROOF TOP POWER PLANT VTU					
	BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE	NO. OF VAR.	
			DRN.	NEERAJ	–SD–		06/02/20
			CKD.	ALOK	–SD–		06/02/20
			APPD.	ANAN	–SD–		06/02/20
			REF. TO ASSY. DRG.	IT. NO.			
DEPT. REG	UNTOLDIM.GR. —		SCALE N.T.S	WEIGHT–KG —		NO. OF ITEM	
TITLE SINGLE LINE DIAGRAM (From ACCB TO LT PANEL)		DRAWING NO. 3 3 01 17 01 002				REV. 00	
		SHEET NO.– 06				NO.OF SHEETS– 06	SIZE– A3

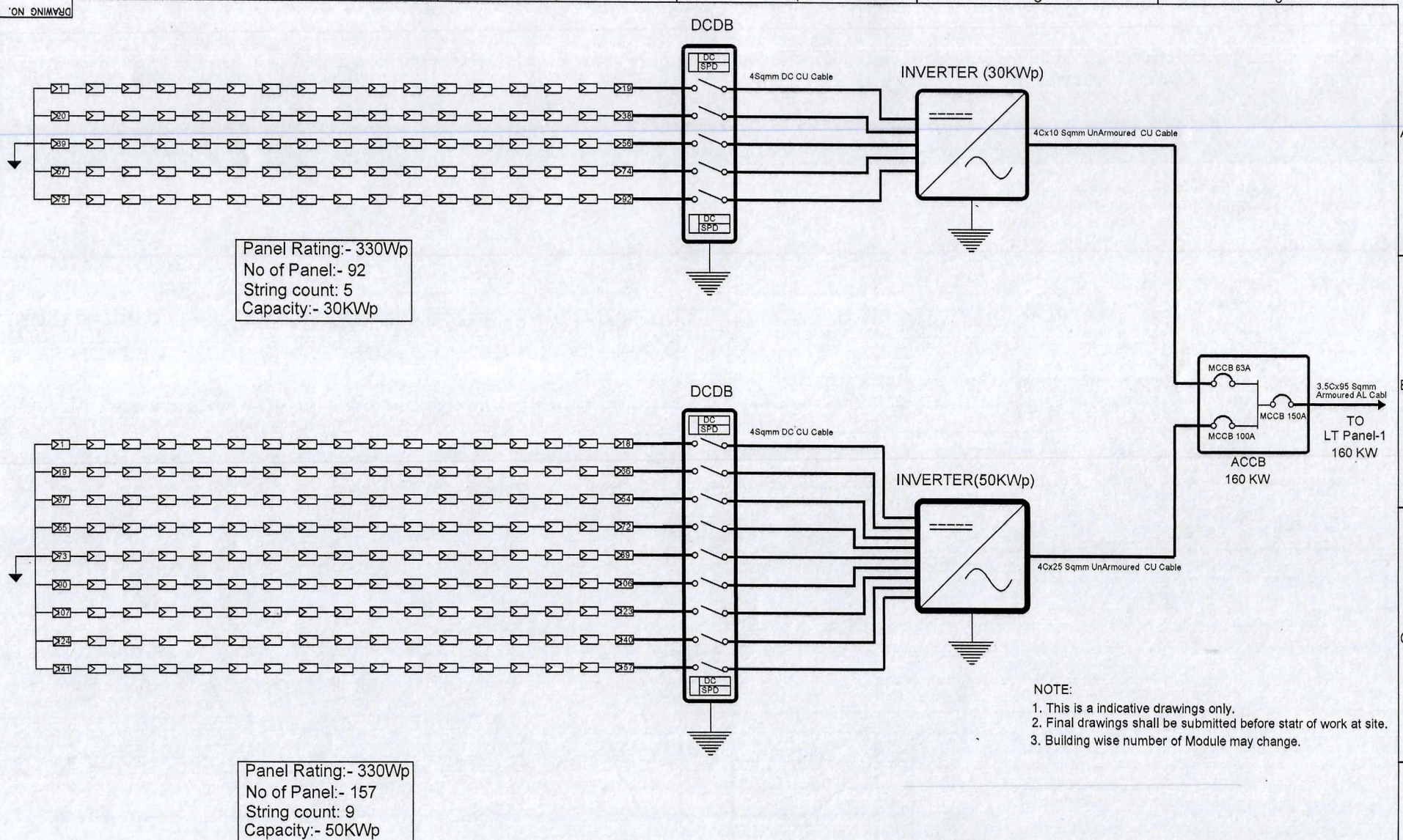
TITLE
SINGLE LINE DIAGRAM (From ACCB TO
LT PANEL)

DEPT.
REG

UNTOL. DIM. GR.

SCALE
N.T.S

WEIGHT-KG



NOTE:

1. This is a indicative drawings only.
2. Final drawings shall be submitted before statr of work at site.
3. Building wise number of Module may change.

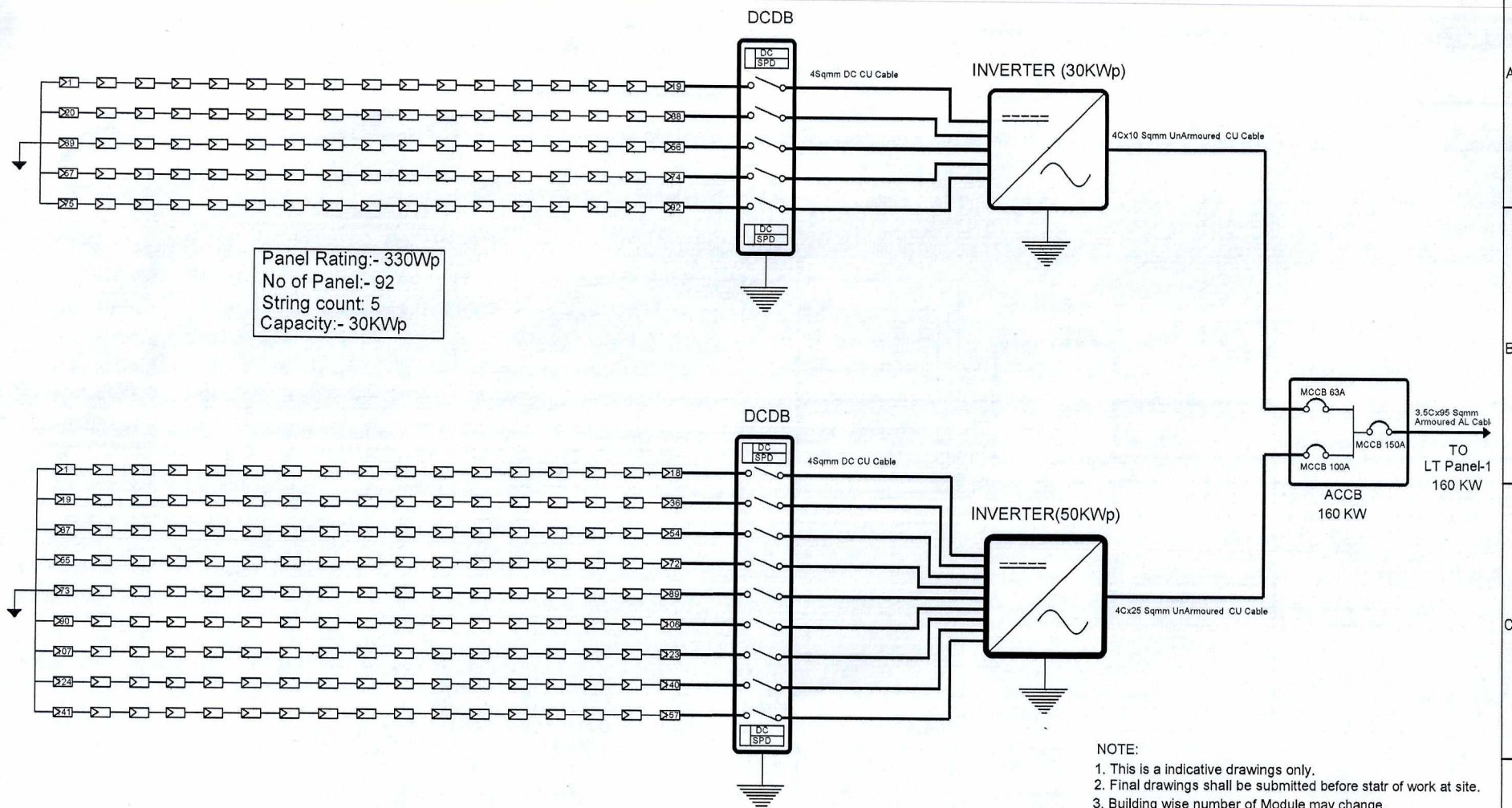
			CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV			PROJECT/PRODUCT 350KW ON -GRID ROOF TOP POWER PLANT VTU				
			BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR			NAME		SIGN.	DATE	NO. OF VAR.
						DRN. NEERAJ		-SD-	06/02/20	
						CKD. ALDK		-SD-	06/02/20	
						APPD. NYAN		-SD-	06/02/20	
REV.	DATE	ALTERD CHEKED	DEPT. REG	UNTO/LDIM.GR. —		SCALE N.T.S	WEIGHT-KG —	REF.TO ASSY.DRG. —	IT.NO. —	NO.OF ITEM
			TITLE			DRAWING NO.			REV.	
			SINGLE LINE DIAGRAM FOR 80 kWp AT ADMIN BUILDING			3 3 03 20 01 002			00	
						SHEET NO.- 01		NO.OF SHEETS- 06	SIZE- A3	

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FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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REV.	DATE	ALTERD CHECKED

CUSTOMER VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		PROJECT/PRODUCT 360KW ON -GRID ROOF TOP POWER PLANT VTU			
	BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR		NAME	SIGN.	DATE
	DEPTT. REG		DRN.	NEERAJ	-SD-
	UNTOL.DIM.GR.		CHKD.	ALOK	-SD-
	SCALE N.T.S		APPD.	RYAN	-SD-
TITLE SINGLE LINE DIAGRAM FOR 80 kWp AT LIBRARY BUILDING		WEIGHT-KG	REF.TO ASSY.DRG.	IT.NO.	NO.OF ITEM
DRAWING NO. 3 3 03 20 01 002		REV.	00		
SHEET NO.- 02		NO.OF SHEETS- 06	SIZE- A3		

87

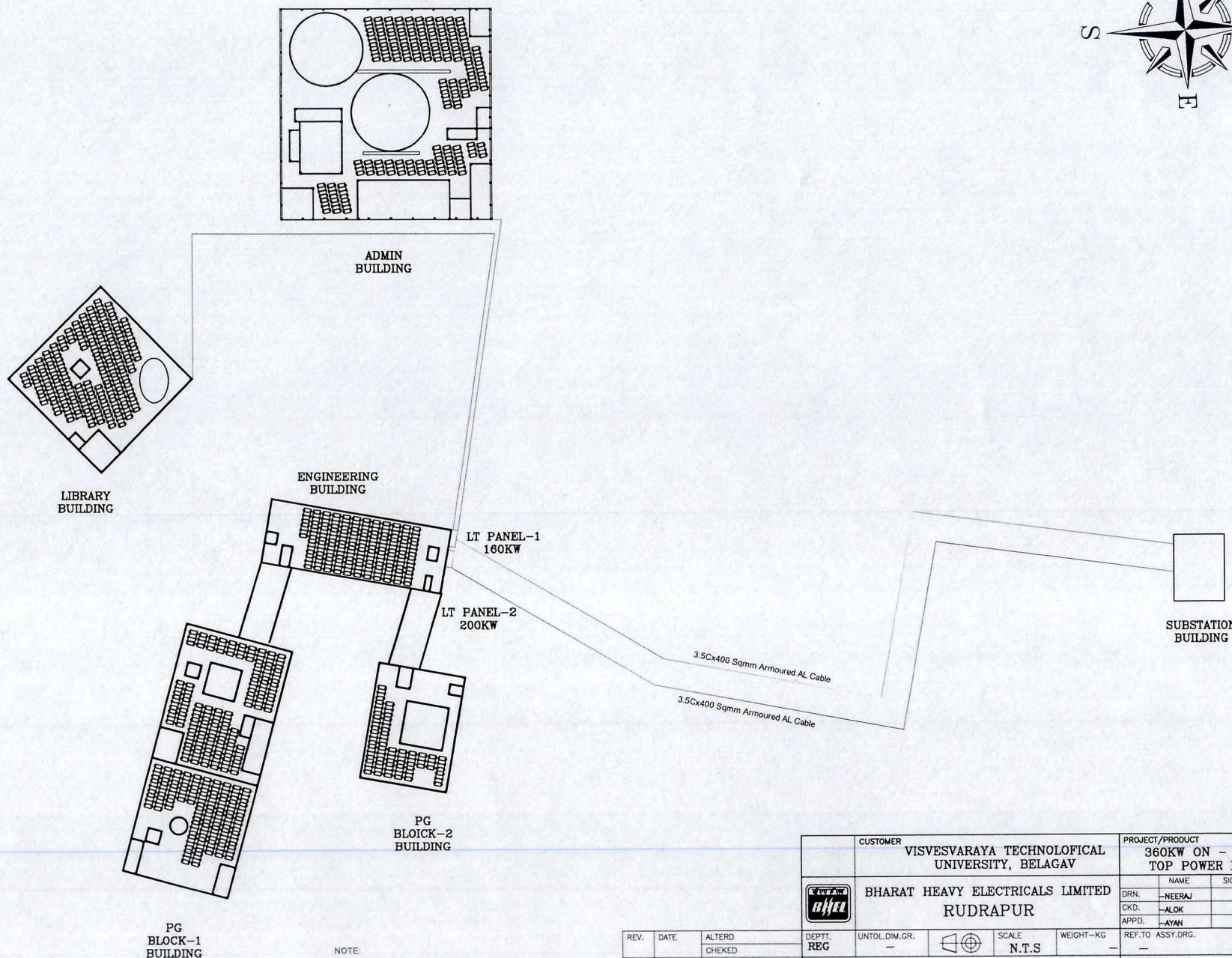
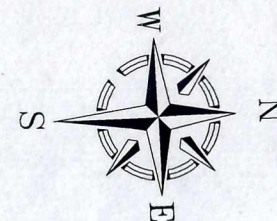
FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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DRAWING NO.

1 2 3 4 5 6



NOTE:
1. This is a indicative drawings only.
2. Final drawings shall be submitted before start of work at site.
3. Building wise number of Module may change.

REV.	DATE	ALTERD CHEKED

CUSTOMER		PROJECT/PRODUCT			
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAV		360KW ON - GRID ROOF TOP POWER PLANT VTU			
	BHARAT HEAVY ELECTRICALS LIMITED		NAME	SIGN.	DATE
	RUDRAPUR		DRN.	NEERAJ	06/02/20
			CKD.	ALOK	06/02/20
			APPD.	AYAN	06/02/20
DEPTT. REG		UNTOL DIM. GR.	SCALE		WEIGHT-KG
			N.T.S		
TITLE		REF. TO ASSY. ORG.		IT. NO.	NO. OF ITEM
CABLE LAYOUT					
		DRAWING NO.		REV.	
		3 3 03 20 00 003 00			
		SHEET NO.- 01	NO. OF SHEETS- 01		SIZE- A3