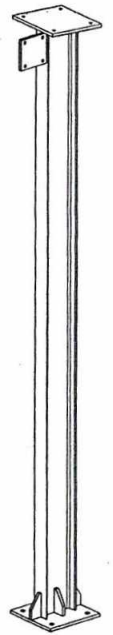
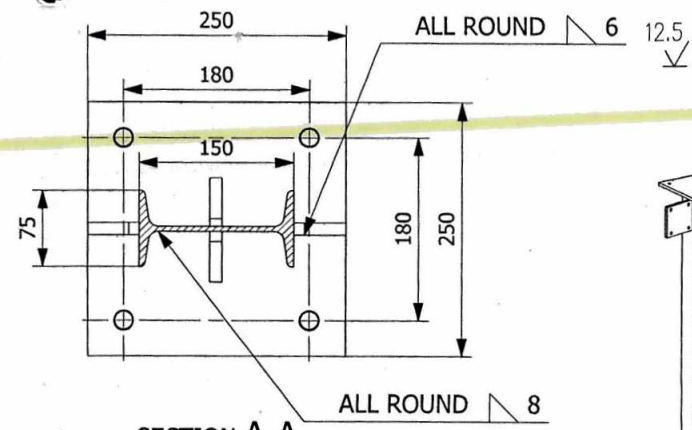
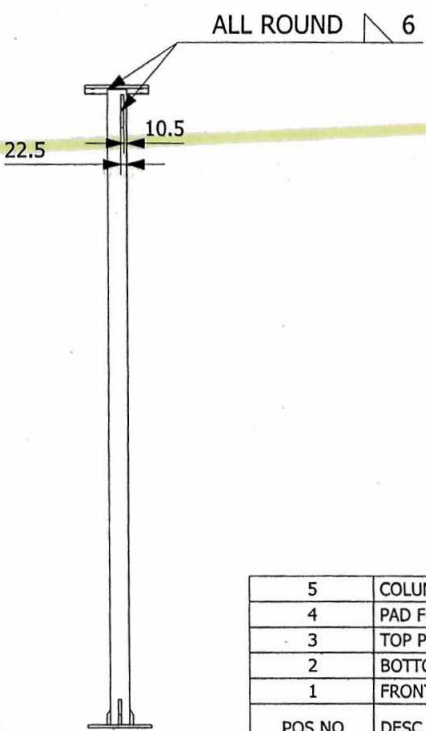
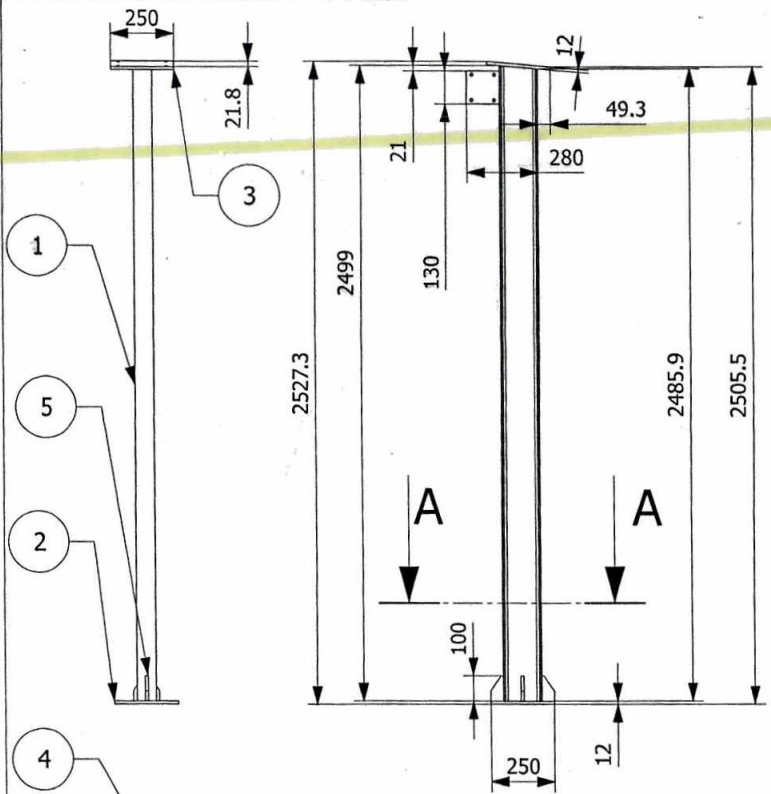


FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. D-G-18-15-719-RD-33-3/00

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY



5	COLUMN STIFFENER	D-G-18-15-719-RD-33-7	0.357	4
4	PAD FOR INCLINED SUPP	D-G-18-15-719-RD-33-6	1.552	1
3	TOP PLATE	D-G-18-15-719-RD-33-5	5.82	1
2	BOTTOM PLATE	D-G-18-15-719-RD-33-4	5.78	1
1	FRONT COLUMN	ISMB 150X75...2499	37.227	1
POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY

SCALE 1:20

ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	ASSEMBLY	51.81
					ASSEMBLY	4
					MATERIAL CODE	UNIT WT
					MATERIAL SPECN.	QUANTITY
THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED.... 1. REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES. 2. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°. 3. INTERNAL M/CD. CORNER RADII 1 TO 0.7 4. THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.						
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT SOLAR BASED EV CHARGING STATION						
BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN.	DATE	NO. OF VAR.	
		DRN. K.B.E		09.08.2016	NA	
		CHD. NAGESH/GAUTAM		09.08.2016	NA	
		APPD. ESWAR RAO		09.08.2016	NA	
DEPT. KBE	SCALE NA	WEIGHT (KG) 51.81	REF. TO ASSY DRG. D-G-18-15-719-RD-33-2	ITEM NO. 10	NO. OF ITEMS 5	
CODE 30	TITLE FRONT COLUMN ASSY		CARD CODE NA	DRAWING NO. D-G-18-15-719-RD-33-3		REV. 00
			SHEET No.: 1	NO OF SHEETS: 1		

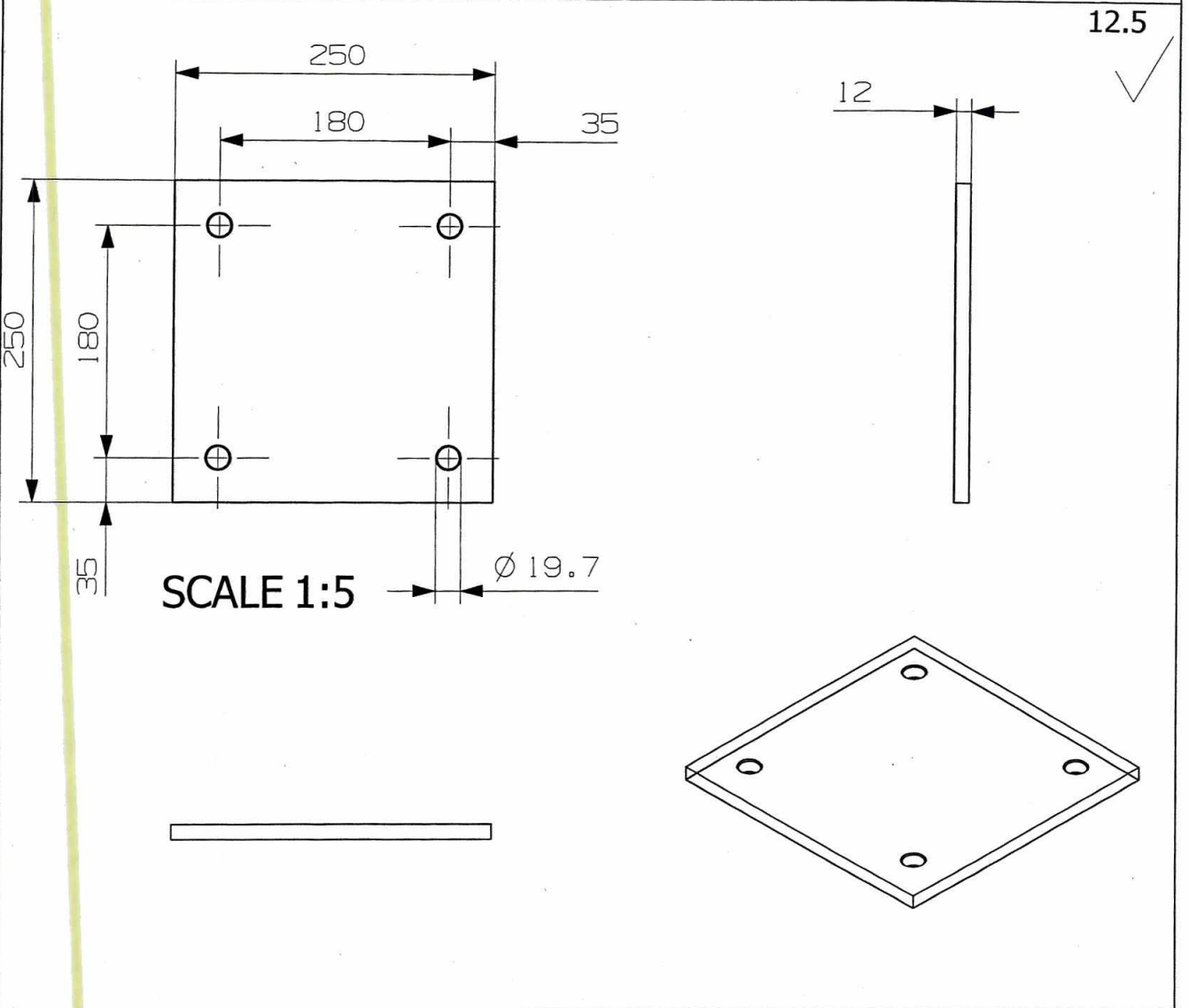
REV.	DATE	ALTERED	CHECKED/ APPD
ZONE			

23

20

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED



		PL: 12	AA1011819090	5.78	
			AA10119	16	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

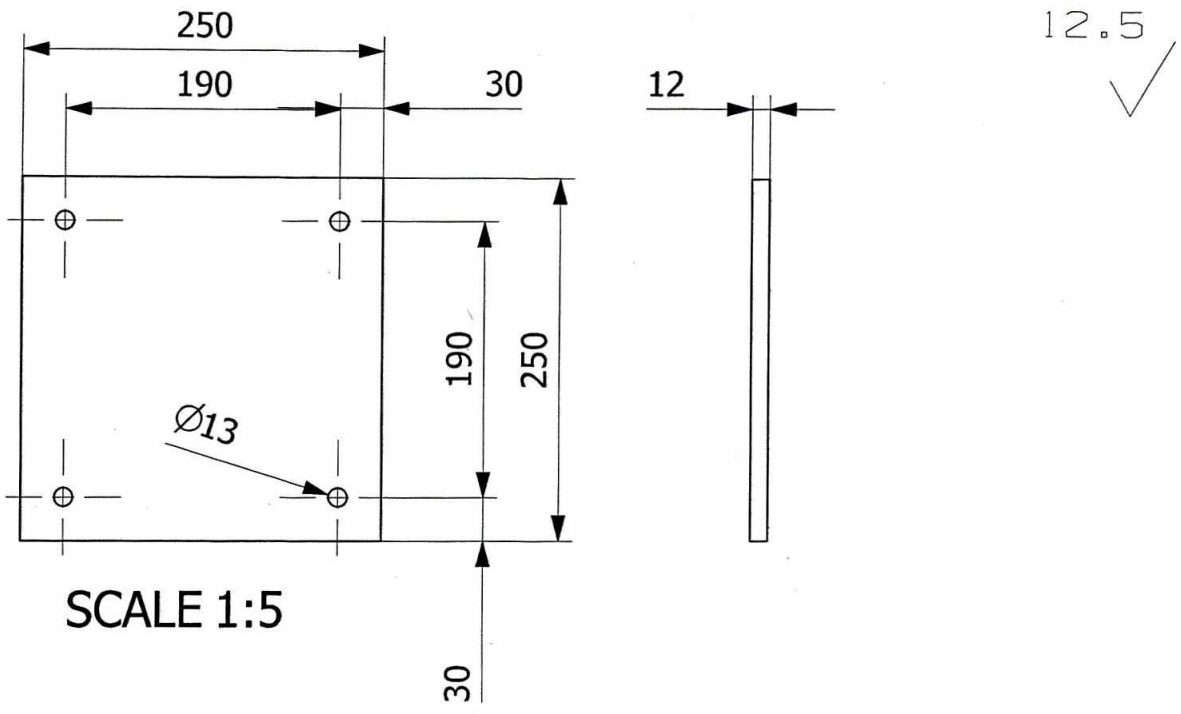
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
	DEPT.	K.B.E	DRN.	K.B.E	09.08.2016		NA
	CODE	030	CKD.	NAGESH/GOWTAM	09.08.2016		
			APPD.	ESWAR RAO	09.08.2016		
	SCALE NTS	WEIGHT(K.G.)	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM		
		5.78	D-G-18-15-720-RD-33-3	2	NA		
TITLE			DRAWING NO.		REV.		
BOTTOM PLATE			D-G-18-15-720-RD-33-4		00		
			SHT.NO. 01	NO.OF SHT. 01			

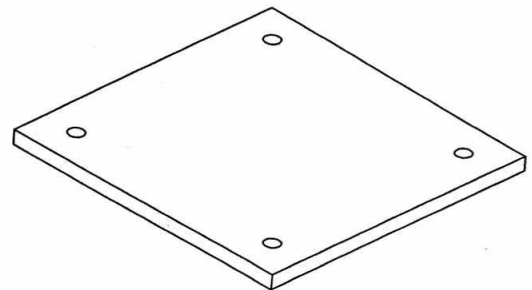
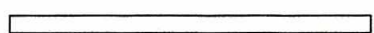
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THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED



SCALE 1:5



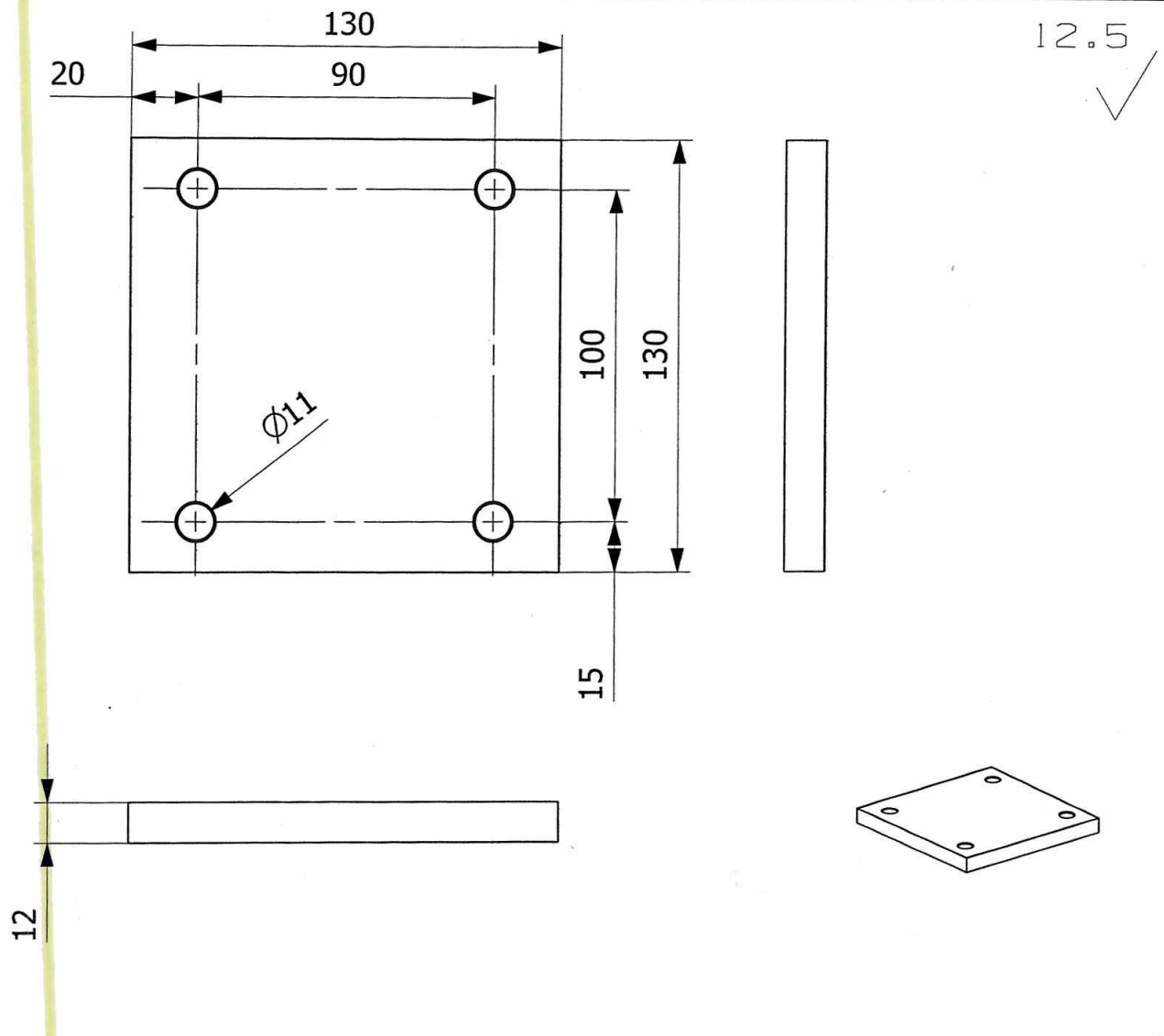
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			AA10119	16+16=32	
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			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
		DRN.	K.B.E		09.08.2016		NA
		CKD.	NAGESH/GAUTAM		09.08.2016		
		APPD.	ESWAR RAO		09.08.2016		
DEPT.	K.B.E	SCALE NTS	WEIGHT(K.G.)	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
CODE	030		5.82	D-G-18-15-719-RD-33-3	3	0	
TITLE			DRAWING NO.		REV.		
TOP PLATE			D-G-18-15-719-RD-33-5		00		
			SHT.NO. 01	NO.OF SHT. 01			

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV. DATE	ALTERED	REV. DATE	ALTERED	REV. DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED



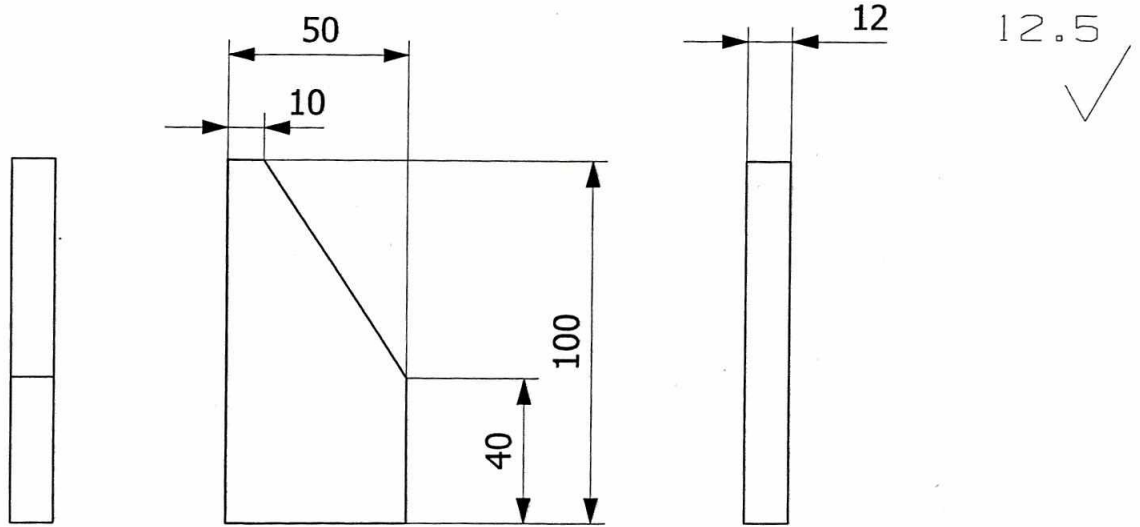
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			AA10119	8	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

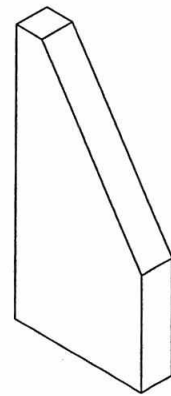
REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
		DRN.	K.B.E		09.08.2016		NA
		CKD.	NAGESH/GAUTAM		09.08.2016		
		APPD.	ESWAR RAO		09.08.2016		
DEPT.	K.B.E	SCALE NTS	WEIGHT(K.G.)	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
CODE	030		1.552	D-G-18-15-719-RD-33-3	4	0	
TITLE			DRAWING NO.		REV.		
PAD FOR INCLINED SUPP			D-G-18-15-719-RD-33-6		00		
			SHT.NO. 01	NO.OF SHT. 01			

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED



SCALE 1:2



		PL: 12	AA1011819090	0.357	
			AA10119	64	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

SOLAR BASED EV CHARGING STATION

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
		DRN.	K.B.E		09.08.2016		NA
		CKD.	NAGESH/GAUTAM		09.08.2016		
		APPD.	ESWAR RAO		09.08.2016		
DEPT.	K.B.E	SCALE NTS	WEIGHT(K.G.)	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
CODE	030		0.357	D-G-18-15-719-RD-33-3	5	0	
TITLE			DRAWING NO.		REV.		
COLUMN STIFFENER			D-G-18-15-719-RD-33-7		00		
			SHT.NO. 01	NO.OF SHT. 01			

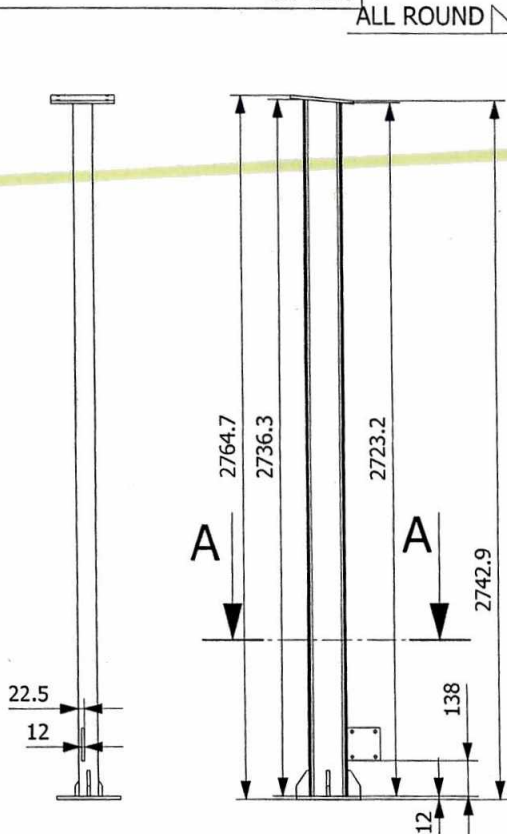
THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

DRG. NO. D-G-18-15-719-RD-33-8/00

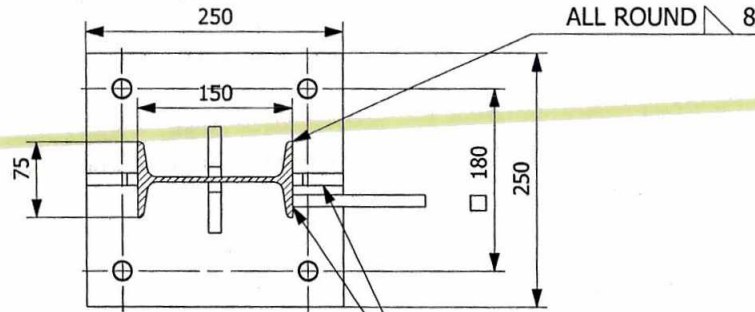
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

12.5
▽

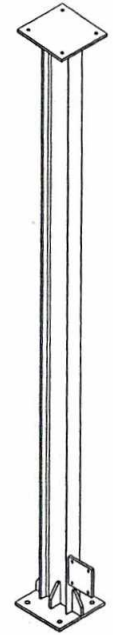


SCALE 1:20



SECTION A-A
SCALE 1:5

POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY
5	COLUMN STIFFENER	D-G-18-15-719-RD-33-7	0.357	4
4	PAD FOR INCLINED SUPP	D-G-18-15-719-RD-33-6	1.552	1
3	TOP PLATE	D-G-18-15-719-RD-33-5	5.82	1
2	BOTTOM PLATE	D-G-18-15-719-RD-33-4	5.78	1
1	MIDDLE COLUMN	ISMB 150X75...2736.3	40.772	1



ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	ASSEMBLY	ASSEMBLY	55.356
					ASSEMBLY	ASSEMBLY	4
						MATERIAL CODE	UNIT WT
						MATERIAL SPECN.	QUANTITY

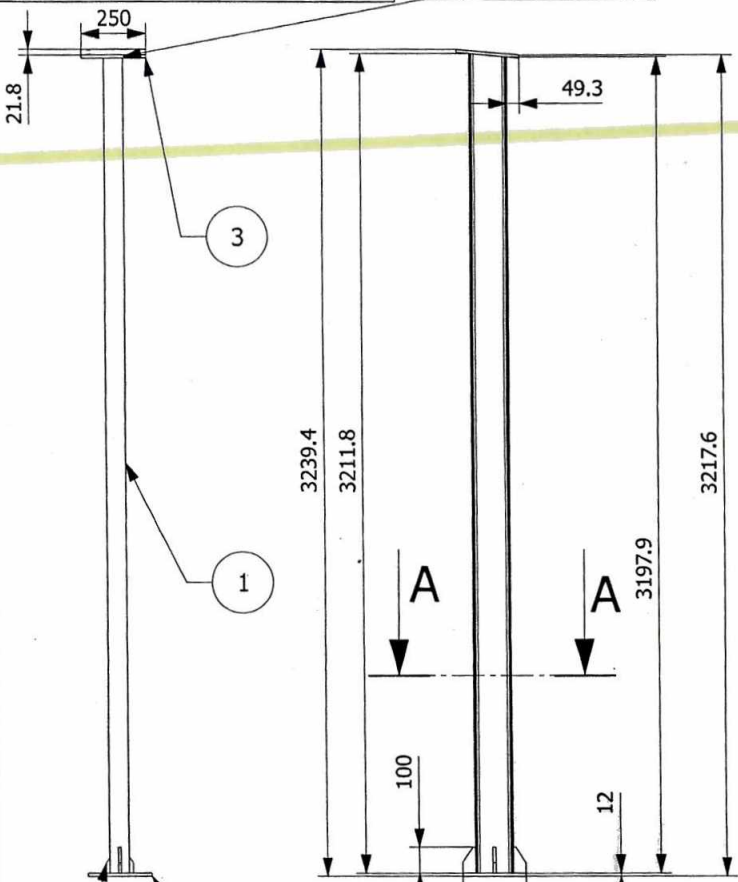
THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED.... 1. REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES. 2. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°. 3. INTERNAL M/CD. CORNER RADII 1 TO 0.7 4. THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT SOLAR BASED EV CHARGING STATION	
BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME K.B.E. NAGESH/GAUTAM ESWAR RAO	SIGN.
DRN. CHD. APPD.	DATE 09.08.2016 09.08.2016 09.08.2016	NO.OF VAR. NA	NO.OF ITEMS 5
DEPT. KBE CODE 30		SCALE NA	WEIGHT (KG) 55.356
TITLE MIDDLE COLUMN ASSY		REF. TO ASSY DRG. D-G-18-15-719-RD-33-2	ITEM NO. 20
CARD CODE NA		DRAWING NO. D-G-18-15-719-RD-33-8	
SHEET No.: 1		NO OF SHEETS: 1	

INVENTORY NO. SIGN. AND DATE COMP. FILE NAME THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

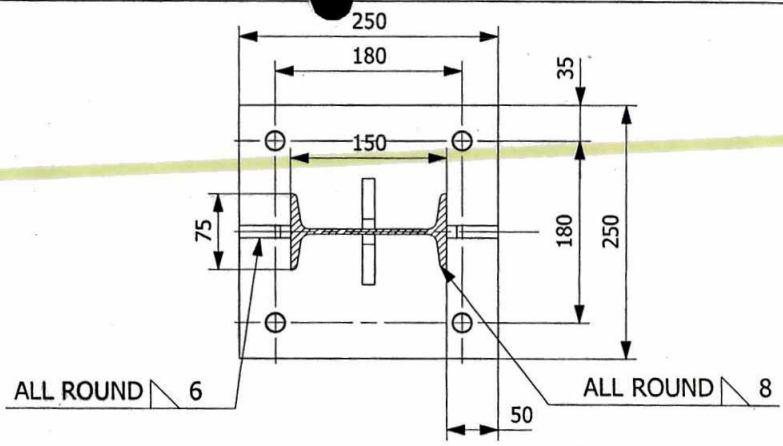
DRG. NO. D-G-18-15-719-RD-33-9/00

FIRST ANGLE PROJECTION

ALL ROUND 9

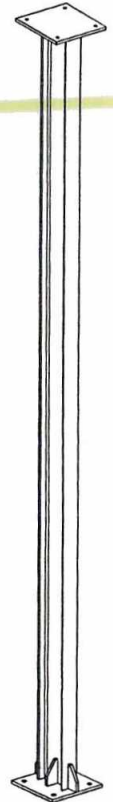


(ALL DIMENSIONS ARE IN mm)



SECTION A-A

POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY
4	COLUMN STIFFENER	D-G-18-15-719-RD-33-7	0.357	4
3	TOP PLATE	D-G-18-15-719-RD-33-5	5.82	1
2	BOTTOM PLATE	D-G-18-15-719-RD-33-4	5.78	1
1	END COLUMN	ISMB 150X75...3211.8	47.873	1



12.5

ASSEMBLY	ASSEMBLY	56.598
	ASSEMBLY	6
	MATERIAL CODE	UNIT WT
	MATERIAL SPECN.	QUANTITY

ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.
4	COLUMN STIFFENER	D-G-18-15-719-RD-33-7		0.357
3	TOP PLATE	D-G-18-15-719-RD-33-5		5.82
2	BOTTOM PLATE	D-G-18-15-719-RD-33-4		5.78
1	END COLUMN	ISMB 150X75...3211.8		47.873

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: **SOLAR BASED EV CHARGING STATION**

BHEL BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD

DRN.	NAME	SIGN.	DATE	NO. OF VAR.
K.B.E			09.08.2016	
CHD.	NAGESH/GAUTAM		09.08.2016	NA
APPD.	ESWAR RAO		09.08.2016	

DEPT.	KBE	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS
		NA	56.598	D-G-18-15-719-RD-33-2	30	4

TITLE: **END COLUMN ASSY**

CARD CODE: NA

DRAWING NO. **D-G-18-15-719-RD-33-9** REV. **00**

SHEET No.: 1 NO OF SHEETS: 1

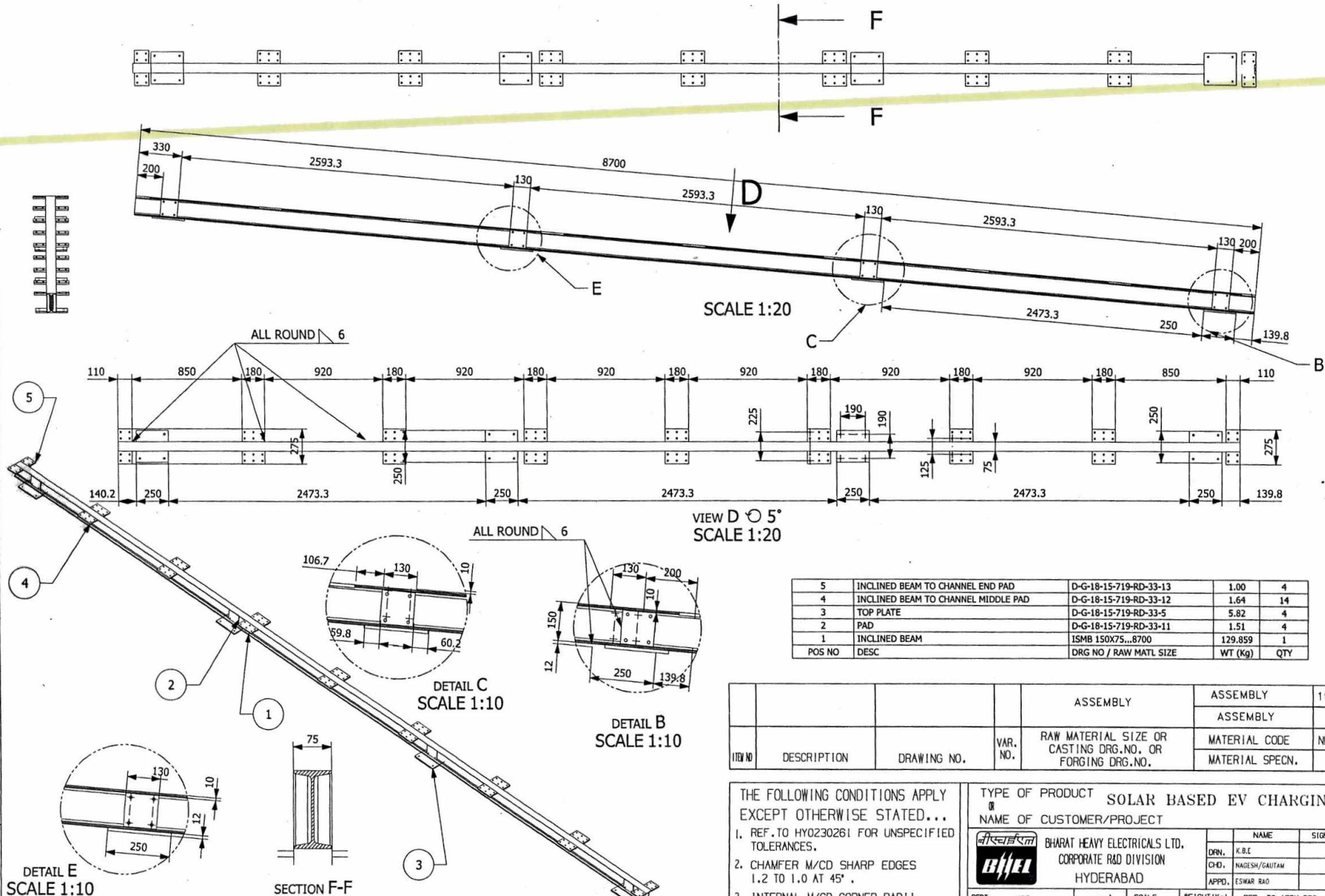
THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED....

- REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.
- CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°.
- INTERNAL M/CD. CORNER RADII 1 TO 0.7
- THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.

REV.	DATE	ALTERED	CHECKED/ APPD

13

INVENTORY NO. REF. DRG. NO. COMP. FILE NAME: THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.



POS NO	DESC	ISMB 150X75...8700	WT (kg)	QTY
5	INCLINED BEAM TO CHANNEL END PAD	D-G-18-15-719-RD-33-13	1.00	4
4	INCLINED BEAM TO CHANNEL MIDDLE PAD	D-G-18-15-719-RD-33-12	1.64	14
3	TOP PLATE	D-G-18-15-719-RD-33-5	5.82	4
2	PAD	D-G-18-15-719-RD-33-11	1.51	4
1	INCLINED BEAM	ISMB 150X75...8700	129.859	1
		DRG NO / RAW MATL SIZE		

ITEM NO	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	MATERIAL CODE	NET WT.	GROSS WT.	QUANTITY
				ASSEMBLY	ASSEMBLY	192.144		
					ASSEMBLY			4

THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED...

- REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.
- CHAMFER M/CD SHARP EDGES 1.2 TO 1.0 AT 45°.
- INTERNAL M/CD CORNER RADI 1 TO 0.7.
- THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.

TYPE OF PRODUCT SOLAR BASED EV CHARGING STATION
 NAME OF CUSTOMER/PROJECT

BHARAT HEAVY ELECTRICALS LTD.
 CORPORATE R&D DIVISION
 HYDERABAD

DRN.	K.B.E	NAME	SIGN.	DATE	NO. OF VAR.
CHD.		NAMESH/GAUTAM		09.09.2016	
APPD.		ESWAR RAO		09.09.2016	N.A

DEPT.	KRE	SCALE	WEIGHT (kg)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS
CODE	30	1:20	192.144	D-G-18-15-719-RD-33-2	40	5

TITLE
INCLINED BEAM ASSY

DRAWING NO.
D-G-18-15-719-RD-33-10 00

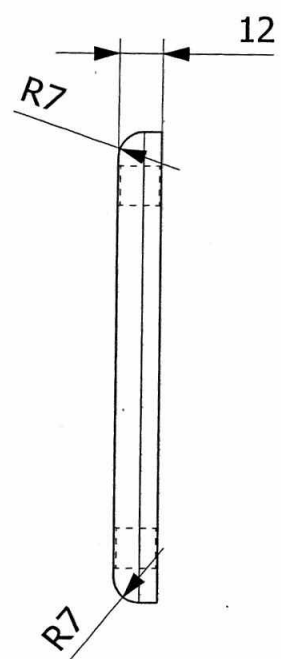
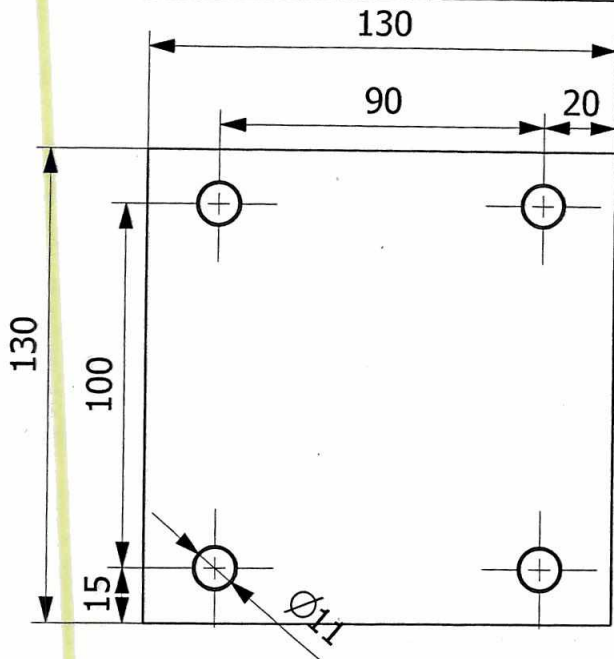
SHEET NO. 01 NO OF SHEETS 01

REV.	DATE	ALTERED	APPD.	REV.	DATE	ALTERED	APPD.	REV.	DATE	ALTERED	APPD.	REV.	DATE	ALTERED	APPD.
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10-150/REV.NO.03 SIZE A2

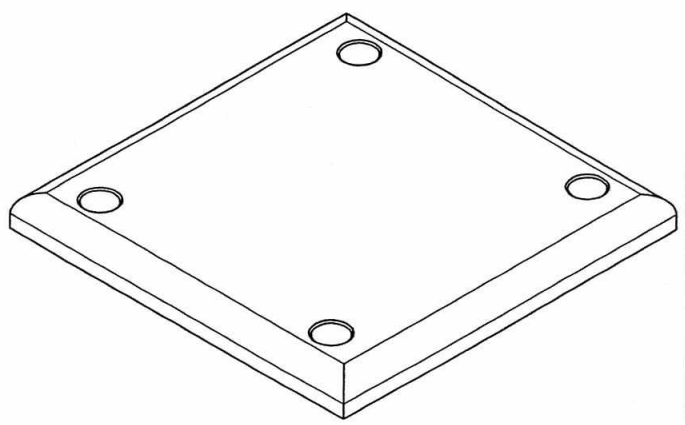
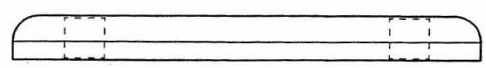
REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED

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12.5 ✓

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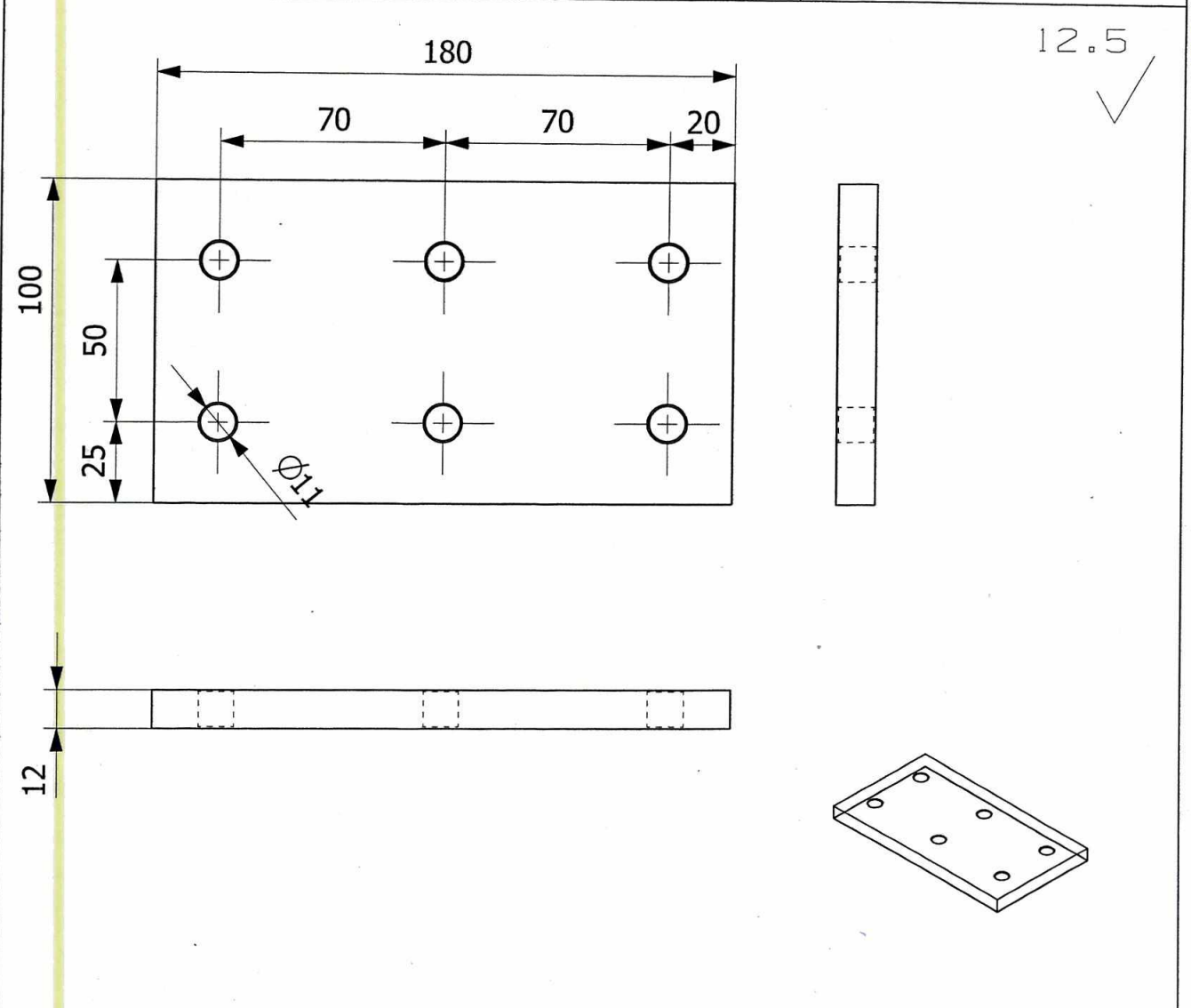
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			AA10119	32	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
	DEPT. KBE	SCALE NTS	DRN. K.B.E		09.08.2016		NA
	CODE 030		CKD. NAGESH/GAUTAM		09.08.2016		
	TITLE PAD		WEIGHT(K.G.) 1.51	APPD. ESWAR RAO		09.08.2016	
			REF.TO ASSY.DRG. D-G-18-15-719-RD-33-10	ITEM NO. 2	NO.OF ITEM 0		
			DRAWING NO. D-G-18-15-719-RD-33-11		REV. 00		
			SHT.NO. 01	NO.OF SHT. 01			

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED



12.5 ✓

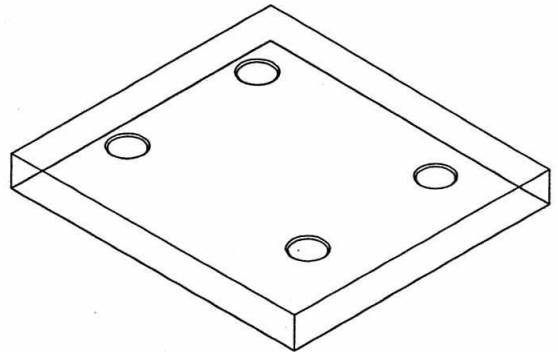
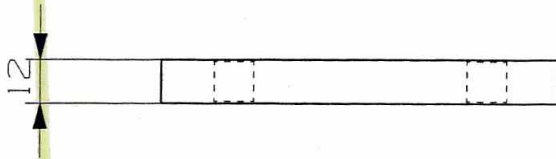
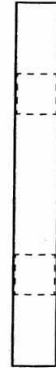
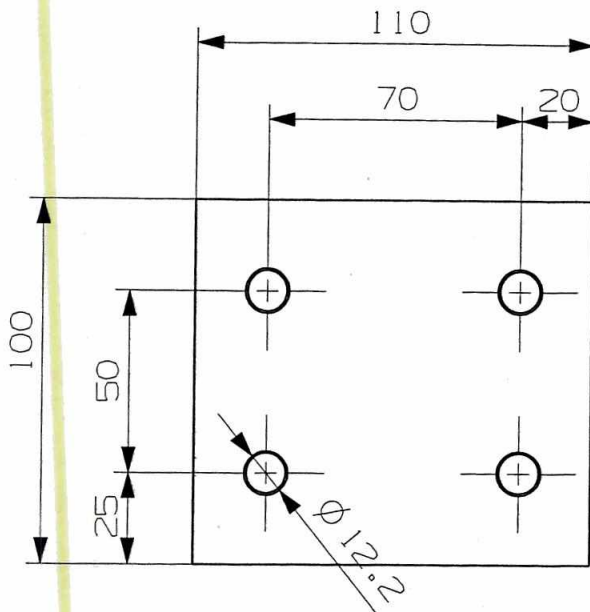
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			AA10119	24+18+56=98	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR. NA
	DEPT. KBE	SCALE NTS WEIGHT(K.G.) 1.637	DRN. K.B.E		09.08.2016	
	CODE 030		CKD. NAGESH/GAUTAM		09.08.2016	
TITLE INCLINED BEAM TO CHANNEL MIDDLE PAD.		REF.TO ASSY.DRG. D-G-18-15-719-RD-33-10	ITEM NO. 4	NO.OF ITEM 0		
			DRAWING NO. D-G-18-15-719-RD-33-12		REV. 00	
			SHT.NO. 01	NO.OF SHT. 01		

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED

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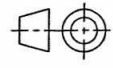
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INVENTORY NO. SIGN. & DATE REF. DRG. NO. (COMPU NO.)

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			AA10119	16	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

SOLAR BASED EV CHARGING STATION

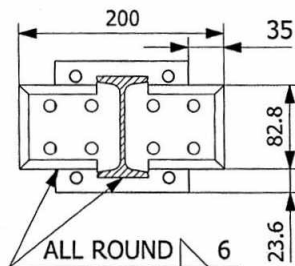
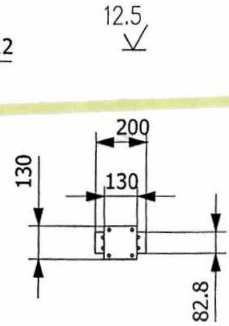
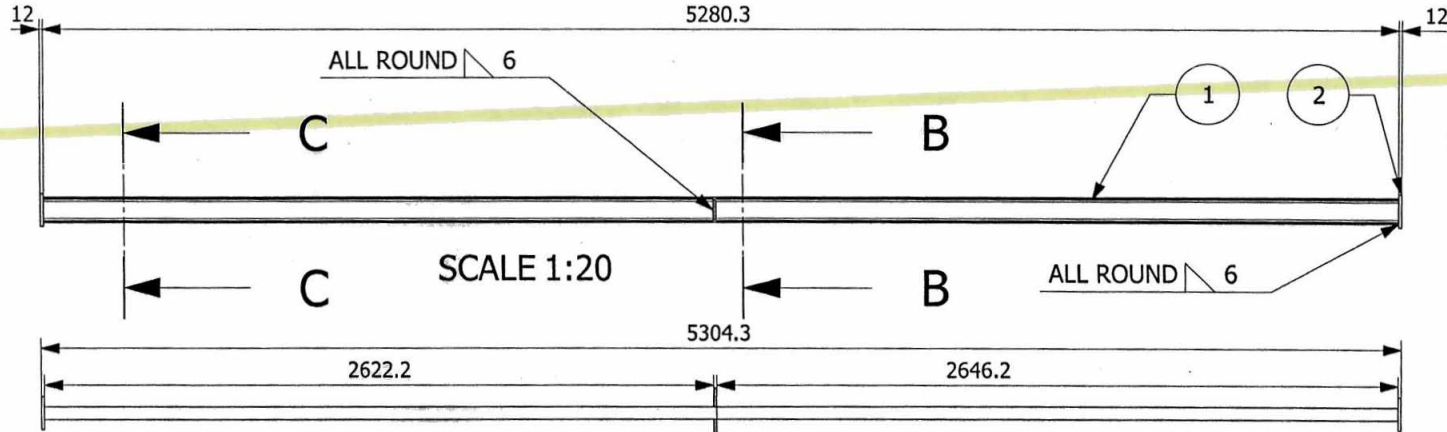
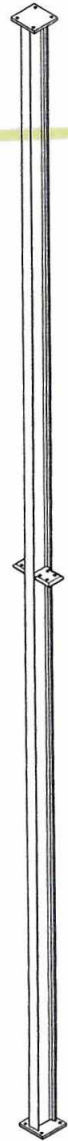
REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	 BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
	DEPT.	K.B.E	DRN.	K.B.E	09.08.2016		NA
	CODE	030	CKD.	NAGESH/GAUTAM	09.08.2016		
			APPD.	ESWAR RAO	09.08.2016		
	 SCALE NTS	WEIGHT(K.G.)	1.00	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
				D-G-18-15-719-RD-33-10	5	0	
TITLE			DRAWING NO.		REV.		
INCLINED BEAM TO CHANNEL END PAD			D-G-18-15-719-RD-33-13		00		
			SHT.NO. 01	NO.OF SHT. 01			

FIRST ANGLE PROJECTION

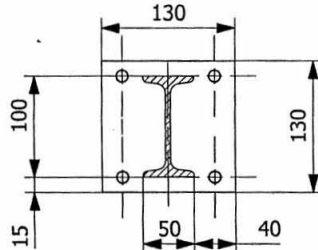
(ALL DIMENSIONS ARE IN mm)

DRG. NO. D-G-18-15-719-RD-33-14/00

BHARAT HEAVY ELECTRICALS LIMITED.
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 INVENTORY NO. SIGN. AND DATE COMP. FILE NAME



SECTION B-B
SCALE 1:5



SECTION C-C
SCALE 1:5

POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY
3	TRANSVERSE BEAM MID PAD	D-G-18-15-719-RD-33-16	0.691	2
2	PAD WITHOUT CHAMFER	D-G-18-15-719-RD-33-15	1.552	2
1	TRANSVERSE BEAM	ISMB 100X50...5280.3	47.201	1

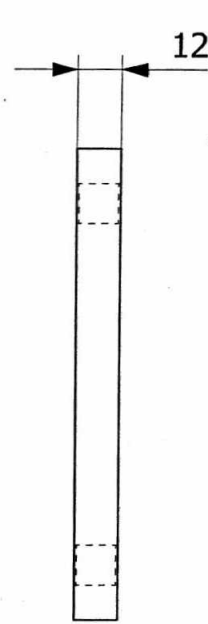
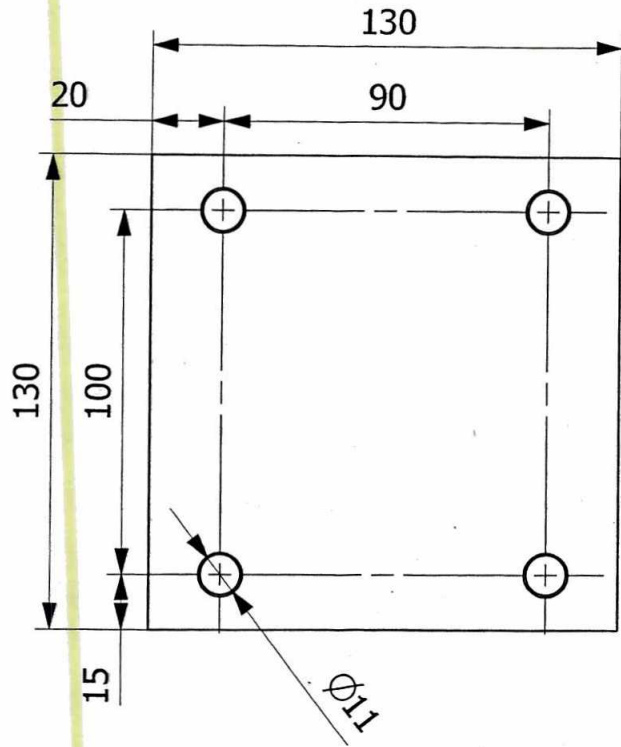
ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	ASSEMBLY	ASSEMBLY	UNIT WT	QUANTITY
					ASSEMBLY	ASSEMBLY		51.688
								9

THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED.... 1. REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES. 2. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°. 3. INTERNAL M/CD. CORNER RADII 1 TO 0.7 4. THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT SOLAR BASED EV CHARGING STATION	
BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME: K.B.E. SIGN: DATE: 09.08.2016 CHD. NAGESH/GAUTAM DATE: 09.08.2016 APPD. ESWAR RAO DATE: 09.08.2016	
DEPT. KBE	SCALE NA	WEIGHT (KG) 51.688	REF. TO ASSY DRG. D-G-18-15-719-RD-33-2
CODE 30			ITEM NO. 70 NO.OF ITEMS 3
TITLE TRANSVERSE BEAM ASSY		CARD CODE NA	DRAWING NO. D-G-18-15-719-RD-33-14:00
		SHEET No.: 1 NO OF SHEETS: 1	

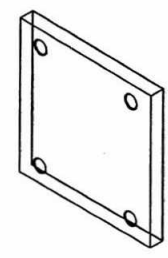
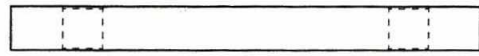


INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED



12.5 ✓



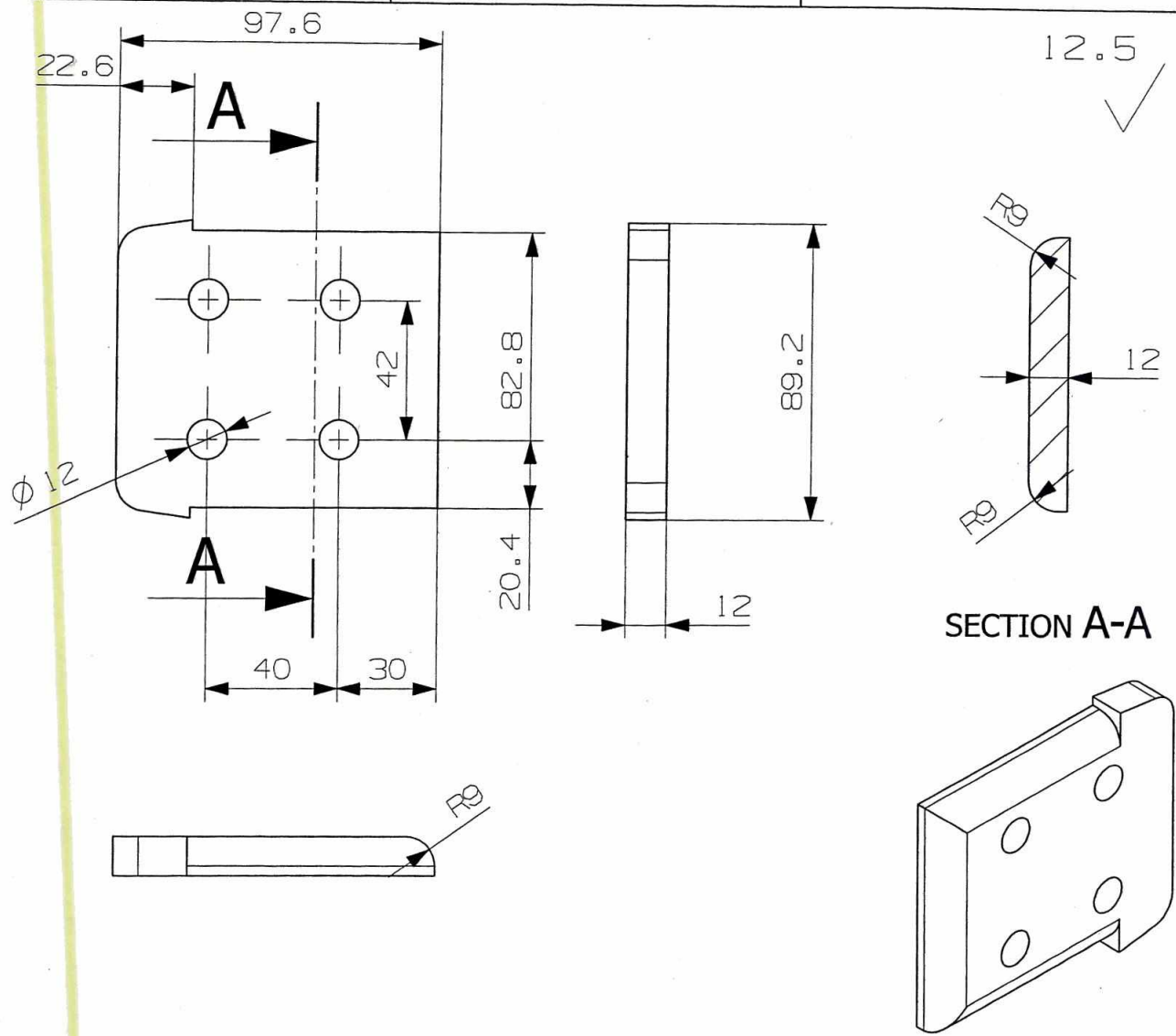
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			AA10119	18	
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			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
	DRN.	K.B.E			09.08.2016		NA
	CKD.	NAGESH/GAUTAM			09.08.2016		
	APPD.	ESWAR RAO			09.08.2016		
DEPT.	KBE	SCALE NTS	WEIGHT(K.G.)	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
CODE	030		1.552	D-G-18-15-719-RD-33-14	2	0	
TITLE			DRAWING NO.		REV.		
PAD WITHOUT CHAMFER			D-G-18-15-719-RD-33-15		00		
			SHT.NO. 01	NO.OF SHT. 01			

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV. DATE	ALTERED	REV. DATE	ALTERED	REV. DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED



DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	AA1011819090	0.691	
			AA10119	18	
			MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.			NAME	SIGN	DATE	NO.OF VAR.
	DEPT. KBE		DRN. K.B.E		09.08.2016	
	CODE 030		CKD. NAGESH/GAUTAM		09.08.2016	
	TITLE		APPD. ESWAR RAO		09.08.2016	NA
		SCALE NTS	WEIGHT(K.G.) 0.691	REF.TO ASSY.DRG. D-G-18-15-719-RD-33-14	ITEM NO. 3	NO.OF ITEM 0
		DRAWING NO. D-G-18-15-719-RD-33-16			.REV. 00	
		SHT.NO. 01	NO.OF SHT. 01			

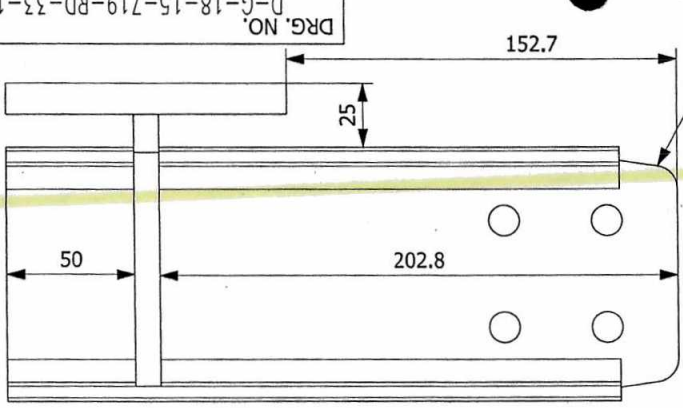
BHARAT HEAVY ELECTRICALS LIMITED.
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 BHARAT HEAVY ELECTRICALS LIMITED.
 IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

FIRST ANGLE PROJECTION

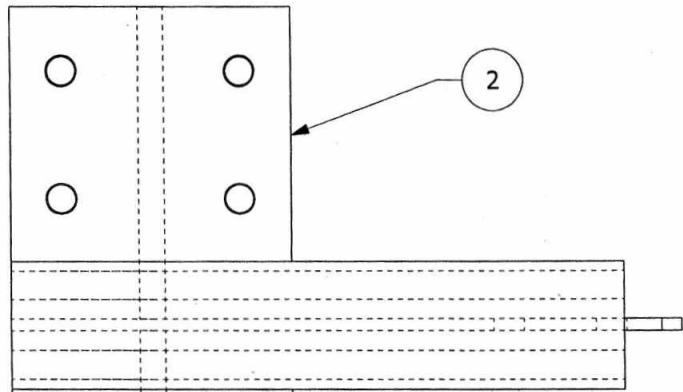
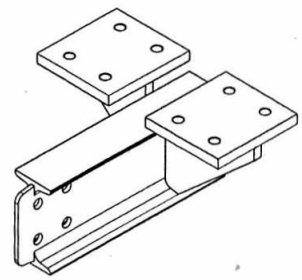
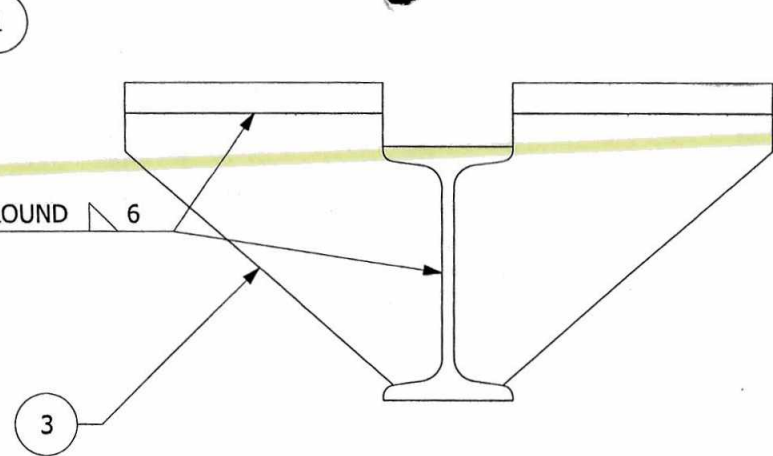
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DRG. NO. D-G-18-15-719-RD-33-17/00

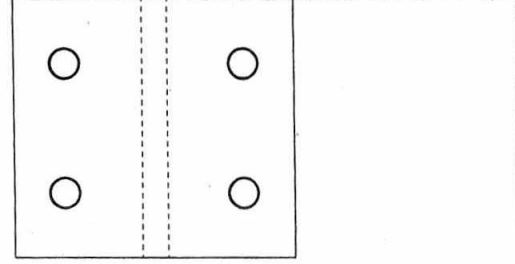
12.5
✓



ALL ROUND 6



POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY
3	STIFFENER FOR PAD	D-G-18-15-719-RD-33-19	0.615	2
2	INCLINED BEAM TO CHANNEL END PAD	D-G-18-15-719-RD-33-13	1.00	2
1	MIDDLE BEAM END BEAM	D-G-18-15-719-RD-33-18	2.20	1



ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	ASSEMBLY	ASSEMBLY	QUANTITY
					ASSEMBLY	ASSEMBLY	5.425
						ASSEMBLY	6
						MATERIAL CODE	UNIT WT
						MATERIAL SPECN.	QUANTITY

THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED....

- REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.
- CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°.
- INTERNAL M/CD. CORNER RADII 1 TO 0.7
- THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT
SOLAR BASED EV CHARGING STATION

	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD					
	DRN.	K.B.E	NAME	SIGN.	DATE	NO.OF VAR.
	CHD.	NAGESH/GAUTAM			09.08.2016	NA
APPD.	ESWAR RAO			09.08.2016		

DEPT.	KBE	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	30	NA	5.425	D-G-18-15-719-RD-33-2	60	3

TITLE	CARD CODE	DRAWING NO.	REV.
MIDDLE BEAM END ASSY	NA	D-G-18-15-719-RD-33-17/00	00
SHEET No.: 1		NO OF SHEETS: 1	

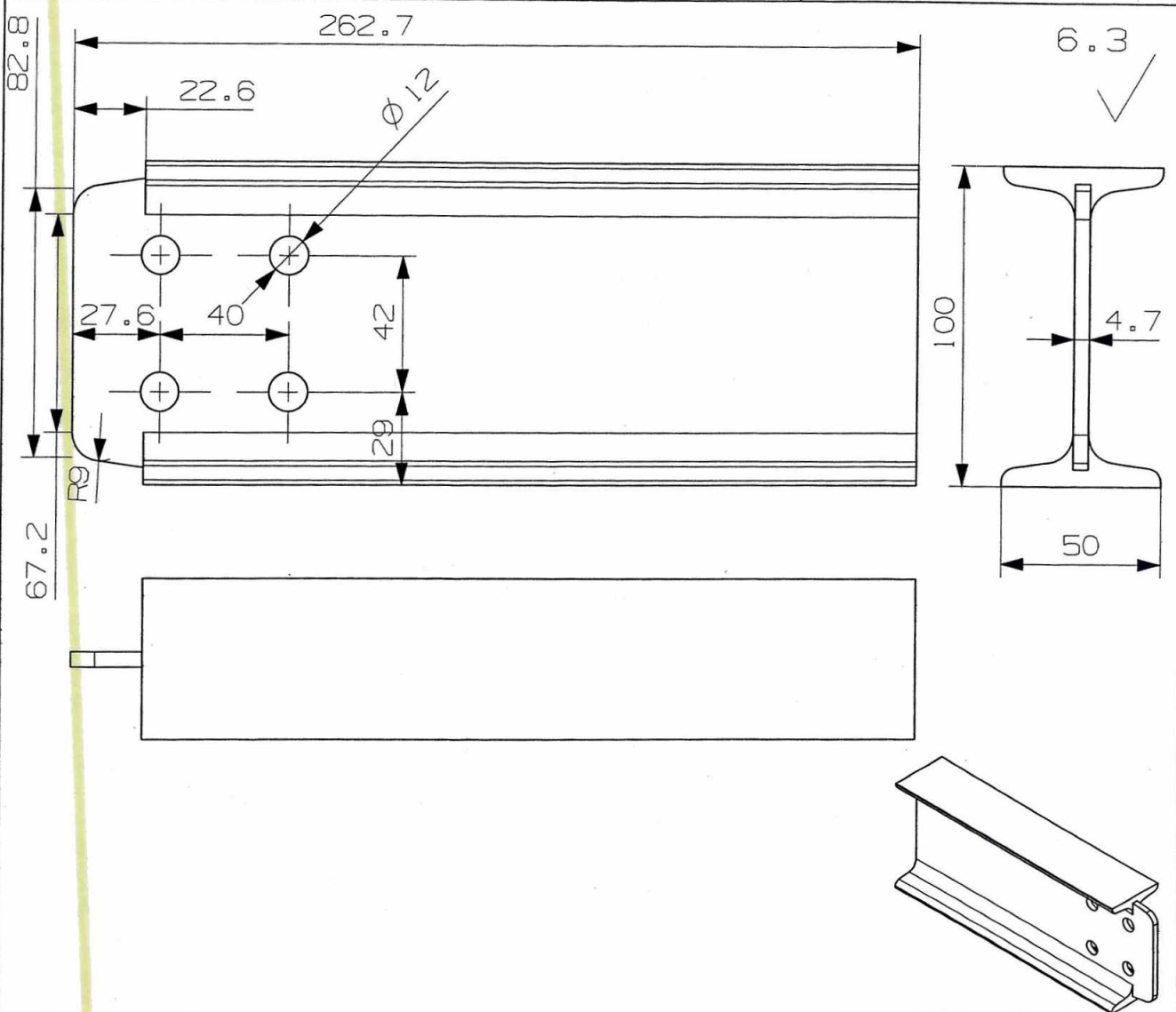
REV.	DATE	ALTERED	CHECKED/ APPD

16

REV. DATE	ALTERED	REV. DATE	ALTERED	REV. DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED

8

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMPUTER NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

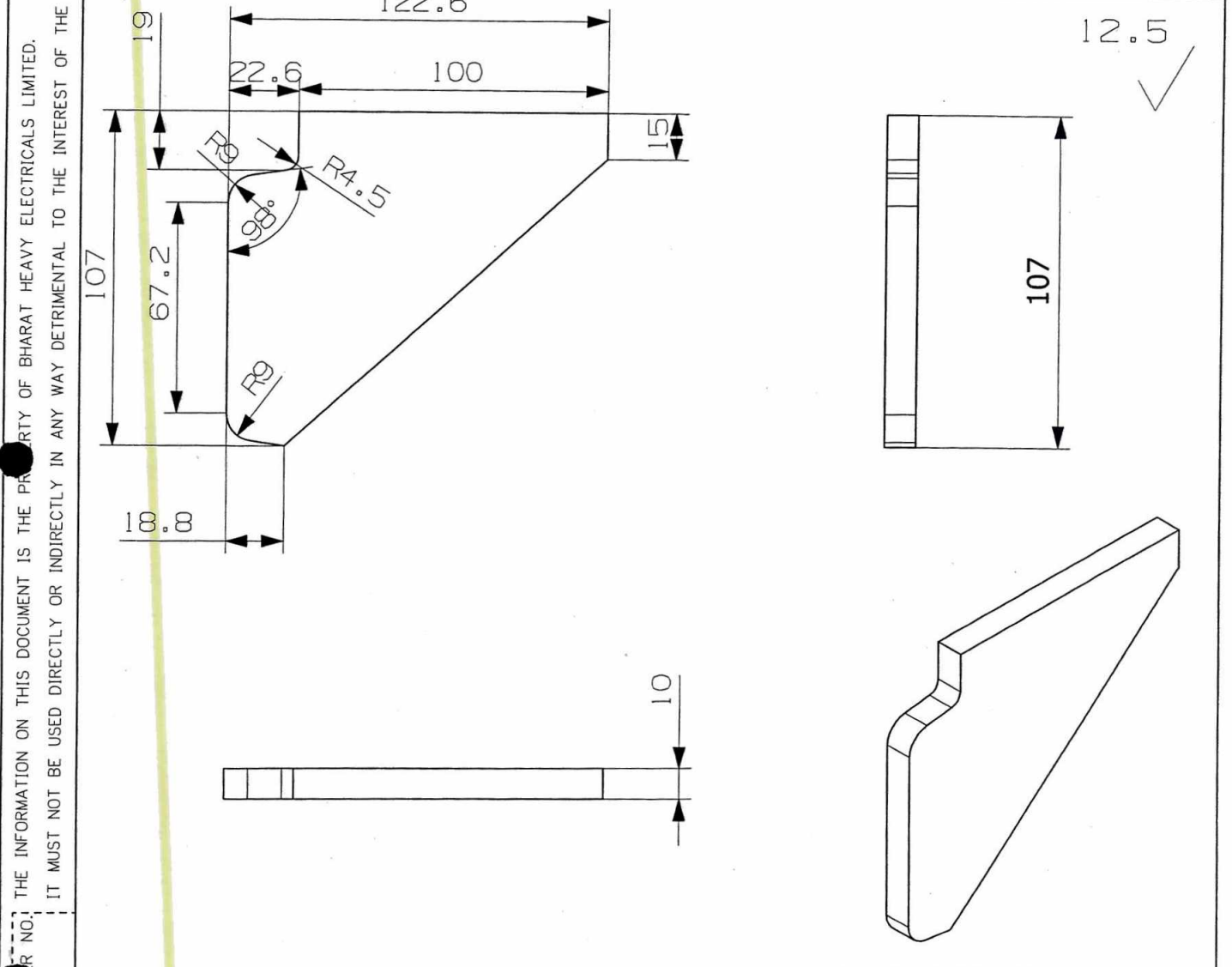


		ISMB 100X50	AA1012808	2.2	
			AA10108	6	
DESCRIPTION & DRG.NO.	VAR NO.	RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
	DEPT.	KBE	DRN.	K.B.E	09.08.2016		NA
	CODE	030	CKD.	NAGESH/GAUTAM	09.08.2016		
			APPD.	ESWAR RAO	09.08.2016		
	SCALE NTS	WEIGHT(K.G.)	2.2	REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
				D-G-18-15-719-RD-33-17	1	0	
TITLE				DRAWING NO.		REV.	
MIDDLE BEAM END BEAM				D-G-18-15-719-RD-33-18		00	
			SHT.NO. 01	NO.OF SHT. 01			

REV. DATE	ALTERED	REV. DATE	ALTERED	REV. DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED



DESCRIPTION & DRG.NO.	VAR NO.	PL: 10	AA1011819074	0.615
			AA10119	48+36+12=96
		RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT. GROSS WT
			MATL. SPECN.	QTY.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.
	DEPT. PES	SCALE NTS WEIGHT(K.G.) 0.615	DRN. K.B.E		09.08.2016	
	CODE 033		CKD. NAGESH/GAUTAM		09.08.2016	
	TITLE		APPD. ESWAR RAO		09.08.2016	NA
			REF.TO ASSY.DRG.	ITEM NO.	NO.OF ITEM	
			D-G-18-15-719-RD-33-17	3	0	
			DRAWING NO.	REV.		
			D-G-18-15-719-RD-33-19	00		
			SHT.NO. 01	NO.OF SHT. 01		

INVENTORY NO. SIGN. & DATE REF. DRG. NO. COMP. NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

INVENTORY NO. SIGN. AND DATE COMP. FILE NAME THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

FIRST ANGLE PROJECTION

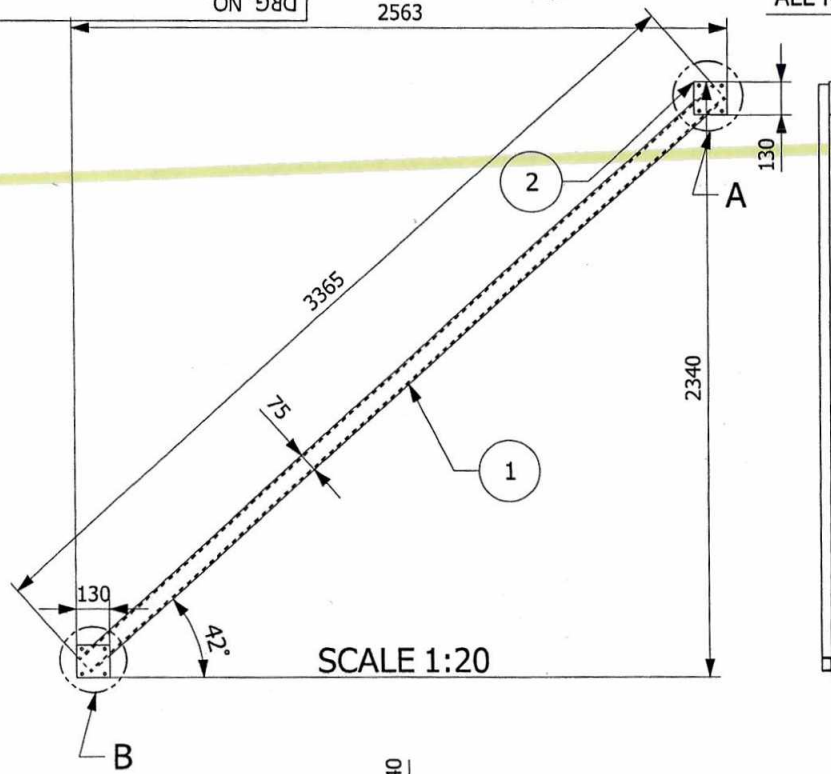
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DRG. NO. D-G-18-15-719-RD-33-22/00

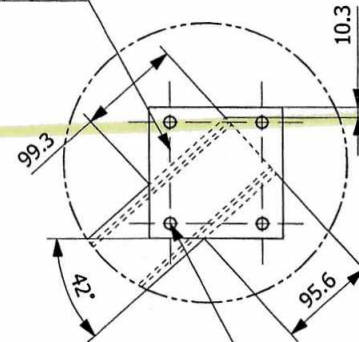
2563

ALL ROUND 6

12.5



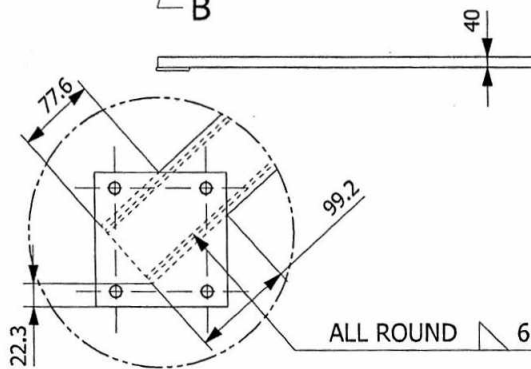
SCALE 1:20



DETAIL A
SCALE 1:5

TRANSFER THE HOLES FROM
POS NO 2 TO POS NO 1
AT 2 PLACES

2	PAD FOR INCLINED SUPP	D-G-18-15-719-RD-33-6	1.552	2
1	AXIAL SUPPORT CHANNEL	ISMC 75X40...3365	23.392	1
POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY



DETAIL B
SCALE 1:5

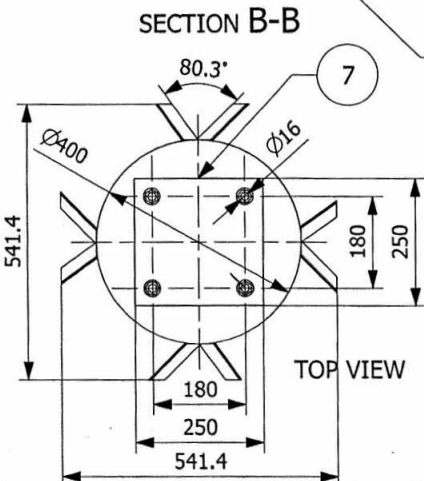
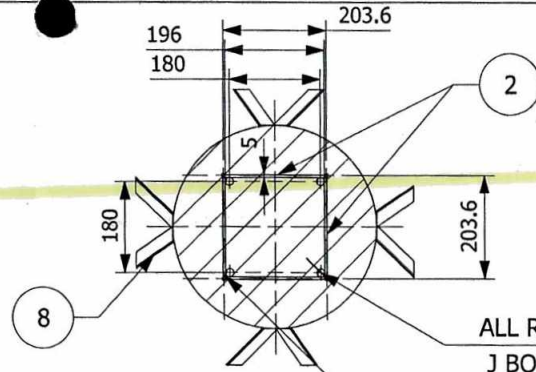
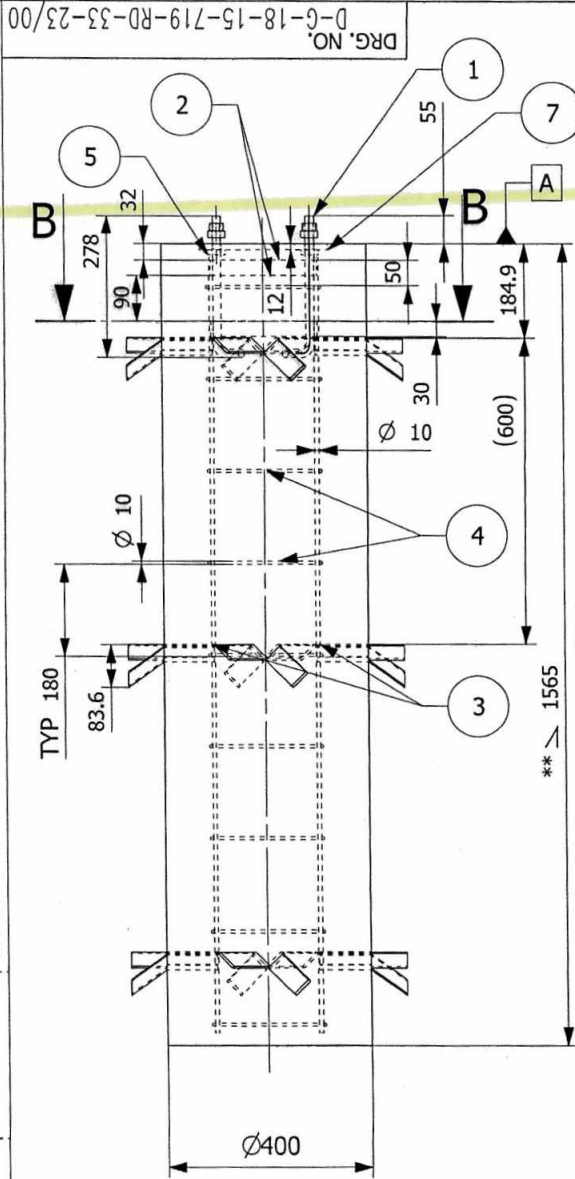
REV.	DATE	ALTERED	CHECKED/ APPD
ZONE			

ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	ASSEMBLY	ASSEMBLY	26.496
					ASSEMBLY		4
					MATERIAL CODE		UNIT WT
					MATERIAL SPECN.		QUANTITY
THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED.... 1. REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES. 2. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°. 3. INTERNAL M/CD. CORNER RADII 1 TO 0.7 4. THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.					TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT SOLAR BASED EV CHARGING STATION		
BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		DRN.	NAME	SIGN.	DATE	NO.OF VAR.	
		CHD.	NAGESH/GAUTAM		09.08.2016	NA	
		APPD.	ESWAR RAO		09.08.2016		
DEPT.	KBE	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS	
		NA	26.496	D-G-18-15-719-RD-33-2	80	2	
CODE	30	TITLE		DRAWING NO.	REV.		
		INCLINED AXIAL SUPPORT ASSY		D-G-18-15-719-RD-33-22/00			
				CARD CODE			
				NA			
				SHEET No.:	NO OF SHEETS:		
				1	1		

INVENTORY NO. SIGN. AND DATE COMP. FILE NAME THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

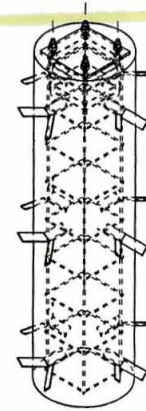
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)



* TIE THE J-BOLTS TO CONCRETE STEEL RODS WITH BINDING WIRE

** THE DEPTH OF THE FOUNDATION SHOULD BE BASED ON THE SOIL TESTING AT THE ACTUAL SITE (SOIL DENSITY:16 KN/m³ & ANGLE OF REPOSE OF 30° WAS CONSIDERED)



12.5

ALL ROUND 5
J BOLT TO SUPP PLT

ALL ROUND 4
FOR SUPP PLATE CORNERS

POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY
8	FOUND. ANCHOR	ISA: 40X40...200	0.537	12
7	BOTTOM PLATE	D-G-18-15-720-RD-33-4	5.78	1
6	BINDING WIRE	---	1 KG	1
5	HEX NUT M16 SS	---	0.1	4
4	RING TIE ROD	DIA 10X800	0.493	9
3	TIE ROD	DIA 10X1500	0.924	4
2	SUPPORT PLATE	PL:5X30X196	0.23	8
1	J BOLT M16... 280 MIN LEN	J BOLT M16	~ 0.56	4

				ASSEMBLY	ASSEMBLY	25.835
					ASSEMBLY	16
ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.	MATERIAL CODE	UNIT WT
					MATERIAL SPECN.	QUANTITY

THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED....

- REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.
- CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°.
- INTERNAL M/CD. CORNER RADII 1 TO 0.7
- THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT
SOLAR BASED EV CHARGING STATION

	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD					
	DRN.	K.B.E	NAME	SIGN.	DATE	NO.OF VAR.
	CHD.	NAGESH/GAUTAM			09.08.2016	NA
APPD.	ESWAR RAD			09.08.2016		

DEPT.	KBE	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	30	NA	25.835	D-G-18-15-719-RD-33-2	100	6

TITLE	CARD CODE	DRAWING NO.	REV.
SUGGESTIVE FOUNDATION EMBEDMENTS	NA	D-G-18-15-719-RD-33-23:00	00
SHEET No.: 1		NO OF SHEETS: 1	

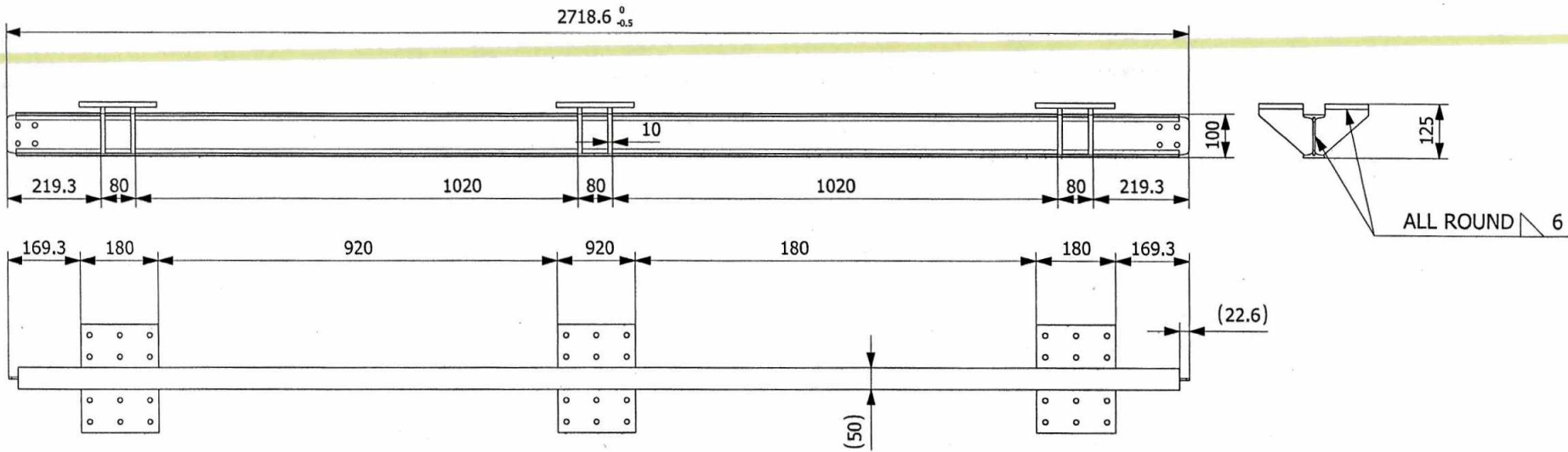
REV.	DATE	ALTERED	CHECKED/ APPD
ZONE			

FIRST ANGLE PROJECTION

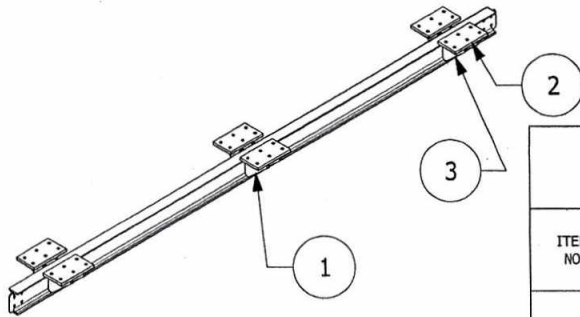
(ALL DIMENSIONS ARE IN mm)

DRG. NO. D-G-18-15-719-RD-33-24/00

12.5
✓



3	STIFFENER FOR PAD	D-G-18-15-719-RD-33-19	0.615	12
2	INCLINED BEAM TO CHANNEL MIDDLE PAD	D-G-18-15-719-RD-33-12	1.637	6
1	MID BEAM MAIN BEAM	D-G-18-15-719-RD-33-25	24.005	1
POS NO	DESC	DRG NO / RAW MATL SIZE	WT (Kg)	QTY



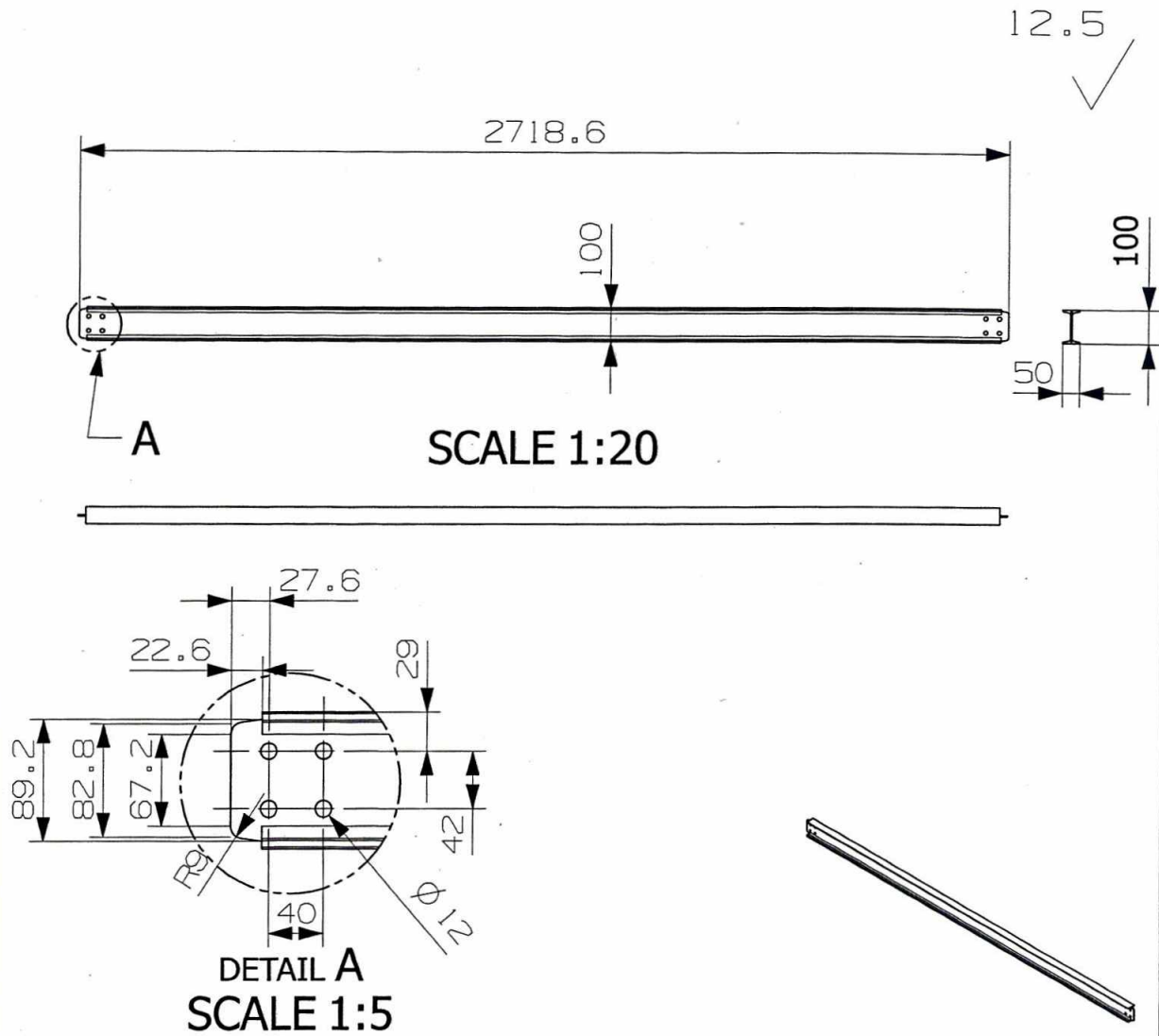
				ASSEMBLY		ASSEMBLY		41.204																			
						ASSEMBLY		3																			
ITEM NO.	DESCRIPTION	DRAWING NO.	VAR. NO.	RAW MATERIAL SIZE OR CASTING DRG. NO. OR FORGING DRG. NO.		MATERIAL CODE		UNIT WT																			
						MATERIAL SPECN.		QUANTITY																			
<p>THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED....</p> <ol style="list-style-type: none"> REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°. INTERNAL M/CD. CORNER RADII 1 TO 0.7 THE SURFACE ROUGHNESS WHEREVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE BACK SLASHES GIVEN AT THE TOP MOST RIGHT CORNER OF THE DRG. 				<p>TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT</p> <p style="text-align: center;">SOLAR BASED EV CHARGING STATION</p>																							
				<p>BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD</p>		<table border="1"> <tr> <td>DRN.</td> <td>K.B.E</td> <td>NAME</td> <td>SIGN.</td> <td>DATE</td> <td>NO.OF VAR.</td> </tr> <tr> <td>CHD.</td> <td></td> <td>NAGESH/GAUTAM</td> <td></td> <td>09.08.2016</td> <td>6</td> </tr> <tr> <td>APPD.</td> <td></td> <td>ESWAR RAO</td> <td></td> <td>09.08.2016</td> <td>NA</td> </tr> </table>		DRN.	K.B.E	NAME	SIGN.	DATE	NO.OF VAR.	CHD.		NAGESH/GAUTAM		09.08.2016	6	APPD.		ESWAR RAO		09.08.2016	NA		
DRN.	K.B.E	NAME	SIGN.	DATE	NO.OF VAR.																						
CHD.		NAGESH/GAUTAM		09.08.2016	6																						
APPD.		ESWAR RAO		09.08.2016	NA																						
DEPT.	KBE	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.		ITEM NO.	NO.OF ITEMS																				
CODE	30	NA	41.204	D-G-18-15-719-RD-33-2		270	3																				
TITLE						CARD CODE	DRAWING NO.																				
LONG. MID BEAM MID ASSY						NA	D-G-18-15-719-RD-33-24/00																				
						SHEET No.:		NO OF SHEETS:																			
						1		1																			

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REV.	DATE	ALTERED	CHECKED/ APPD
ZONE			

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED



DESCRIPTION & DRG.NO.	VAR NO.	ISMB 100X50	AA1012808	24.005	
			AA10108	9	
		RAW MATERIAL SIZE OR CASTING DRG.NO. OR FORGING DRG.NO.	MATL. CODE	NET.WT.	GROSS WT
			MATL. SPECN.	QTY.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: **SOLAR BASED EV CHARGING STATION**

REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.	BHARAT HEAVY ELECTRICALS LTD. CORPORATE R&D DIVISION HYDERABAD		NAME	SIGN	DATE	NO.OF VAR.	
	DEPT. KBE	SCALE NTS	DRN. K.B.E		09.08.2016		NA
	CODE 030		WEIGHT(K.G.) 24.005	CKD. NAGESH/GAUTAM			
	TITLE			APPD. ESWAR RAO		09.08.2016	
MID BEAM MID MAIN BEAM			REF.TO ASSY.DRG. D-G-18-15-719-RD-33-24	ITEM NO. 1	NO.OF ITEM 0		
			DRAWING NO. D-G-18-15-719-RD-33-25	REV. 00			
			SHT.NO. 01	NO.OF SHT. 01			