

BILL OF MATERIAL	DEP NO	NO OF IT VAR		TYPE OF PRODUCT	WORK ORDER 67038A51201	DRG NO 14647000164	CORE CODE 65170700	REV 02		
	406	24	2	500MVA, UPPTCL	TITLE				SHT NO	
					TOP END FRAME TOP END FRAME F				1 OF 2	

DU	VAR03	VAR02	VAR01	VAR00	REMARKS	IT NO	DESCRIPTION	DRAWING NO	IT.	MATCODE	A / C	UT	UNIT WT	G / S	
							MAT SIZE	DETAILS	VAR	MAT SPEC			QTY	ZONE	
			00002	00002	TO DETAIL	001	END FRAME PART (HTS)			AA1011822156		KG	387.760		
							TK WDT LEN ID OD DIM1			AA10122					
							25 858 2300								
			00001	00001	TO DETAIL	002	END FRAME PART (HTS)			AA1011822156		KG	356.680		
							TK WDT LEN ID OD DIM1			AA10122					
							25 858 2115								
			00001	00001	TO DETAIL	003	END FRAME PART (HTS)			AA1011822156		KG	305.990		
							TK WDT LEN ID OD DIM1			AA10122					
							25 858 1815								
			00002	00002	TO DETAIL, M/C TO 14TK SEE SECTION F-F	004	LIFTING LUG			AA1011822113		KG	18.050		
							TK WDT LEN ID OD DIM1			AA10122					
							16 330 435								
			00004	00004	TO DETAIL SEE SECTION F-F	005	LIFTING LUG			AA1011822130		KG	18.550		
							TK WDT LEN ID OD DIM1			AA10122					
							20 306 423								
			00002	00002	TO DETAIL SEE SECTION B-B	006	PAD			AA1011822156		KG	9.720		
							TK WDT LEN ID OD DIM1			AA10122					
							25 180 275								
			00001	00001	TO DETAIL SEE SECTION E-E	007	PAD			AA1011822156		KG	14.040		
							TK WDT LEN ID OD DIM1			AA10122					
							25 260 275								
			00001	00001	TO DETAIL SEE SECTION E-E	008	PAD			AA1011822113		KG	7.690		
							TK WDT LEN ID OD DIM1			AA10122					
							16 240 255								
			00002	00002	TO DETAIL SEE SECTION A-A	009	PAD			AA1011822156		KG	5.400		
							TK WDT LEN ID OD DIM1			AA10122					
							25 100 275								
			00012	00012	C=65 L=380 SEE SECTION G-G	010	40 TONN DASHPOT GUIDE ASSY.	34997000046				KG	34.820		
							TK WDT LEN ID OD DIM1						00		
			00012	00012	TO DETAIL & SEE SECTION G-G	011	GUIDE ASSY. PAD			AA1011822156		KG	9.430		
							TK WDT LEN ID OD DIM1			AA10122					
							25 240 200								
			00001	00001	SECTION C-C,	012	BACK PLATE			AA1011822156		KG	512.230		
							TK WDT LEN ID OD DIM1			AA10122					
							25 305 8530								

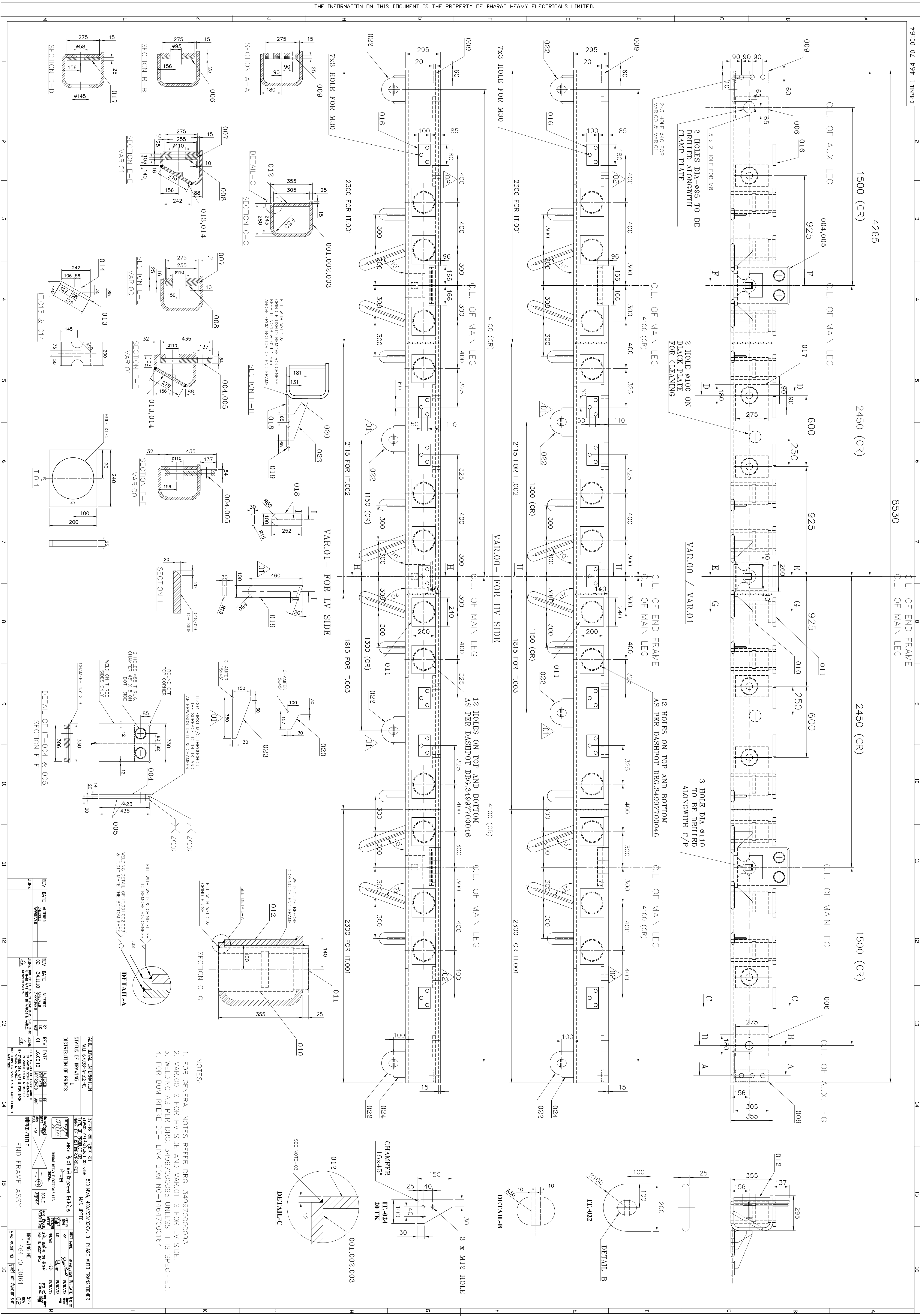
DISTRIBUTION DETAILS					REV NO. 2		PREP BY		CKD BY		APPD BY		DATE 03 DEC 2018			
TRE	TRM	TRX	FTM		PREP BY		CKD BY		APPD BY		DATE					
1	3	1	3		RP		LK		AKP		04 JUL 2018		DRG NO 14647000164		SHT 1 OF 2	

BILL OF MATERIAL	DEP NO	NO OF IT VAR		TYPE OF PRODUCT	WORK ORDER	DRG NO	CORE CODE	REV	
					67038A51201	14647000164	65170700	02	
	406	24	2		500MVA, UPPTCL	TITLE			
					TOP END FRAME	TOP END FRAME H		2 OF 2	

DU	VAR03	VAR02	VAR01	VAR00	REMARKS	IT NO	DESCRIPTION						DRAWING NO	IT.	MATCODE		A / C	UT	UNIT WT		G / S
							MAT SIZE								DETAILS				MAT SPEC		
			00003		TO DETAIL SEE SECTION E-E & F-F	013	END FRAME PART								AA1011822156			KG	13.700		
							TK	WDT	LEN	ID	OD	DIM1			AA10122						
							25	200	279												
			00003		CUT TO DETAIL 65 X 65 X 6 X 50LG SEE SECTION E-E & F-F	014	R.S. ANGLE								AA1012508099			KG	0.305		
							TK	WDT	LEN	ID	OD	DIM1			AA10108						
									50												
			00007	00007	TO DETAIL,	016	PAD								AA1011822156			KG	3.530		
							TK	WDT	LEN	ID	OD	DIM1			AA10122						
							25	100	180												
			00006	00006	SEE SECTION D-D	017	PAD								AA1011822156			KG	9.720		
							TK	WDT	LEN	ID	OD	DIM1			AA10122						
							25	180	275												
			00006	00006	TO DETAIL, SECTION H-H, I-I	018	PRESSURE PAD								AA1011819139			KG	5.470		
							TK	WDT	LEN	ID	OD	DIM1			AA10119						
							30	100	252												
			00006	00006	TO DETAIL, SEE SECTION H-H	019	PRESSURE PAD								AA1011819139			KG	12.830		
							TK	WDT	LEN	ID	OD	DIM1			AA10119						
							30	100	460												
			00006	00006	TO DETAIL, SEE SECTION H-H FOR IT.-018	020	GUSSET								AA1011822130			KG	2.460		
							TK	WDT	LEN	ID	OD	DIM1			AA0122						
							20	100	157												
			00004	00004	TO DETAIL,	022	PLATE (FOR M42 TIE ROD)								AA1011822156			KG	7.860		
							TK	WDT	LEN	ID	OD	DIM1			AA10122						
							25	200	200												
			00006	00006	TO DETAIL, SEE SECTION H-H FOR IT-019	023	GUSSET								AA1011822156			KG	9.040		
							TK	WDT	LEN	ID	OD	DIM1			AA10122						
							20	150	350												
			00004	00004	TO DETAIL WITH IT.022	024	GUSSET								AA1011822130			KG	2.360		
							TK	WDT	LEN	ID	OD	DIM1			AA10122						
							20	100	150												

2988. 2946.4

DISTRIBUTION DETAILS					REV NO. 2		PREP BY		CKD BY		APPD BY		DATE 03 DEC 2018	
TRE	TRM	TRX	FTM		PREP BY	CKD BY	APPD BY	DATE						
1	3	1	3		RP	LK	AKP	04 JUL 2018						

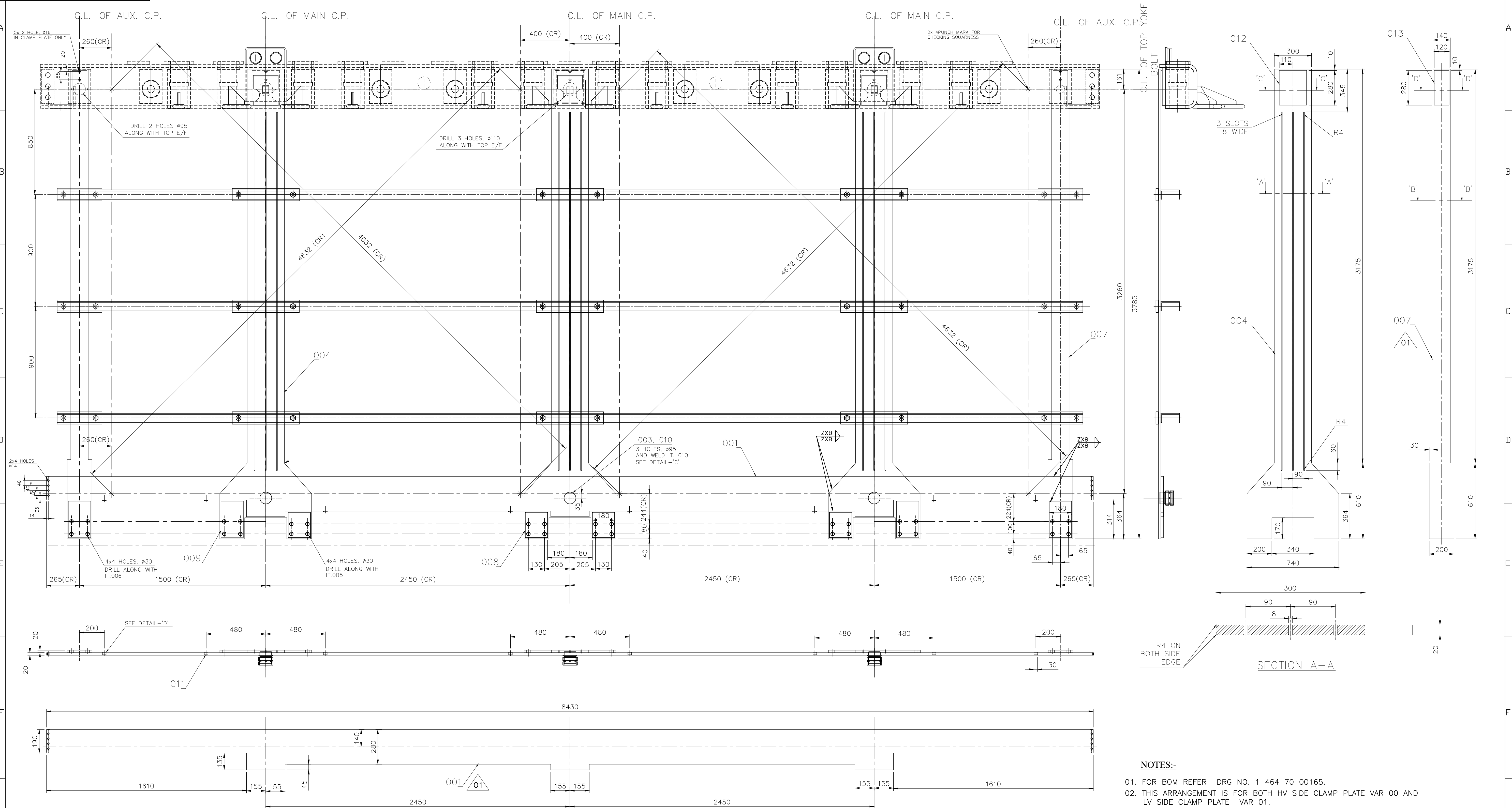


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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

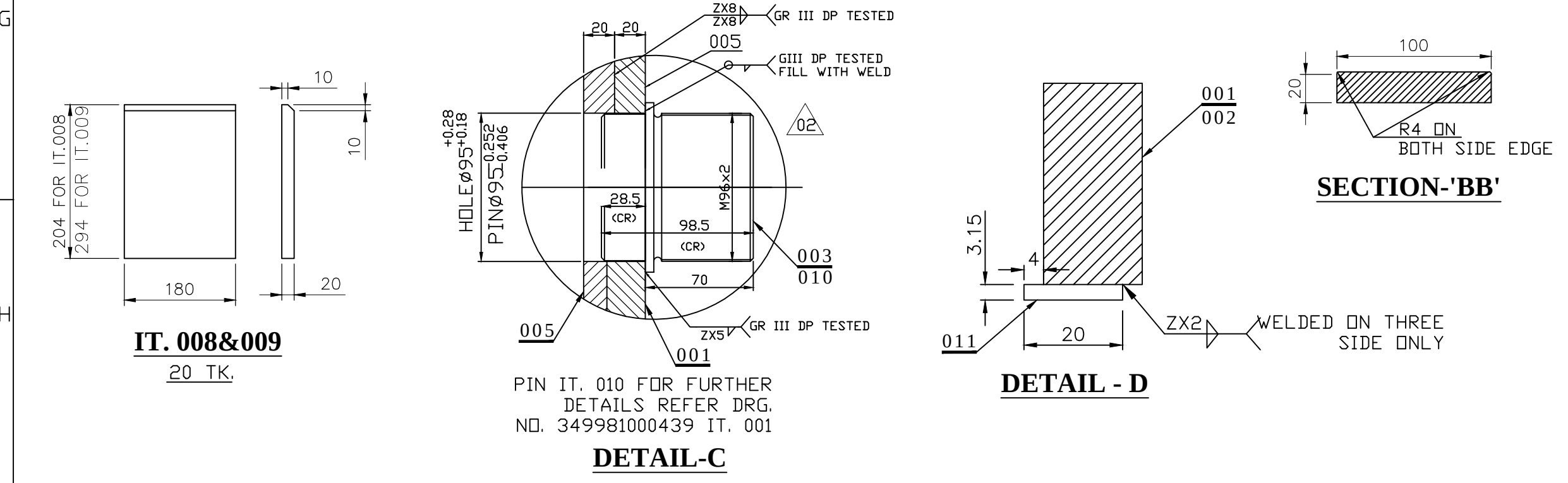
DRG NO. 1 464 70 00165



NOTES:-

01. FOR BOM REFER DRG NO. 1 464 70 00165.
02. THIS ARRANGEMENT IS FOR BOTH HV SIDE CLAMP PLATE VAR 00 AND LV SIDE CLAMP PLATE VAR 01.
03. FOR MAKING SLOTS IN IT.004 REFER STD. SHEET 34997000093, SL.NO.-5.
04. FOR ALL IMPORTANT INSTRUCTION RELATED TO MANUFACTURING CLAMP PLATE STRUCTURE REFER STD. SHEET 34997000093 & 34997000095

VAR.00 FOR HV SIDE WEIGHT= 1262 KG (HTS)
VAR.01 FOR LV SIDE WEIGHT= 1262 KG (HTS)



B I L L O F M A T E R I A L	DEP NO	NO OF IT	VAR	TYPE OF PRODUCT	WORK ORDER 67038A51201	DRG NO 14647000167	CORE CODE 65170700	REV 01	
	406	60	0	500MVA 3PH AUTO TRF.UPPTC	TITLE CORE AND END FRAME ASSY. TOP END FRAME F			SHT NO 1 OF 5	

DU	VAR03	VAR02	VAR01	VAR00	REMARKS	IT NO	DESCRIPTION	DRAWING NO	IT.	MATCODE	A / C	UT	UNIT WT	G / S		
							MAT SIZE	DETAILS	VAR	MAT SPEC			QTY	ZONE		
				00001	STEEL PART	001	H.V. CLAMP PLATE	34647000323	001			KG	1262.000			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	002	L.V. CLAMP PLATE	34647000323	002			KG	1261.900			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	003	H.V. TOP ENDFRAME	34647000323	003			KG	2893.500			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	004	L.V. TOP ENDFRAME	34647000323	004			KG	2935.000			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	005	MAIN FOOT ASSY	34647000323	005			KG	277.600			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	006	YOKE CLAMP END TIE PLATE	34647000323	006			KG	67.000			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	007	AUX TOP CROSS BEAM (LOCKING)	34647000323	007			KG	148.720			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	008	MAIN TOP CROSS BEAM	34647000323	008			KG	371.800			
							TK WDT LEN ID OD DIM1									
				00006	L=1130, A=200	009	TIE ROD M36	34997000027	005			KG	6.800			
							TK WDT LEN ID OD DIM1									
				00006	L=1190	010	TOP YOKE BOLT ASSY M36 (10KV)	34997000027	06			KG	10.910			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	011	AUX FOOT ASSY	34647000323	009			KG	199.480			
							TK WDT LEN ID OD DIM1									
				00001	STEEL PART	012	LIFTING PIN ASSY AUX. (95 DIA)	34647000323	010			KG	16.320			
							TK WDT LEN ID OD DIM1									

DISTRIBUTION DETAILS				REV NO. 1	PREP BY	CKD BY	APPD BY	DATE 20 OCT 2018	
TRM	TRX	TRE		PREP BY	CKD BY	APPD BY	DATE		
3	1	1		RP	LK	AKP	13 AUG 2018		DRG NO 14647000167

BILL OF MATERIAL	DEP NO	NO OF IT	VAR	TYPE OF PRODUCT	WORK ORDER 67038A51201	DRG NO 14647000167	CORE CODE 65170700	REV 01	
	406	60	0	500MVA 3PH AUTO TRF.UPPTC	TITLE CORE AND END FRAME ASSY. TOP END FRAME F				SHT NO 2 OF 5

DU	VAR03	VAR02	VAR01	VAR00	REMARKS	IT NO	DESCRIPTION	DRAWING NO	IT.	MATCODE	A / C	UT	UNIT WT	G / S				
							MAT SIZE	DETAILS		MAT SPEC			QTY	ZONE				
				00001	STEEL PART	013	LIFTING PIN ASY MAIN (110 DIA)	34647000323	011			KG	29.600					
							TK		WDT	LEN	ID		OD	DIM1				
				00004	B.O SEE W.O	014	STEP PACKING(END. LEG)	34647000287	001			KG	6.440					
							TK		WDT	LEN	ID		OD	DIM1				
				00008	B.O ,SEE W.O	015	STEP PACKING(MAIN FOOT)	34647000288	001			KG	6.695					
							TK		WDT	LEN	ID		OD	DIM1				
				00008	B.O SEE W.O	016	STEP PACKING(AUX. FOOT)	34647000289	001			KG	5.860					
							TK		WDT	LEN	ID		OD	DIM1				
				38500	QTY.=38500	017	CERAMIC SPACER	34997000065					0.001					
							TK		WDT	LEN	ID		OD	DIM1	00			
				00004	HV/LV SIDE	018	TOP MAIN YOKE INSULATION	34647000326				KG	15.700					
							TK		WDT	LEN	ID		OD	DIM1	02			
				00002	HV/LV SIDE LHS	019	TOP AUX YOKE INSULATION	34647000326				KG	6.660					
							TK		WDT	LEN	ID		OD	DIM1	00			
				00004	HV/LV SIDE LHS & R.H.S.	020	BOTTOM MAIN YOKE INSULATION	34647000325				KG	10.440					
							TK		WDT	LEN	ID		OD	DIM1	02			
				00002	HV/LV SIDE RHS	021	TOP AUX YOKE INSULATION	34647000326				KG	6.660					
							TK		WDT	LEN	ID		OD	DIM1	01			
				00006	OMIT IT. 001 & 005	022	YOKE BOLT ARRGT.M36	34577000010				KG	1.960					
							TK		WDT	LEN	ID		OD	DIM1	00			
				00002	HV/LV SIDE PHENOLIC	023	CLAMP PLATE SEPARATOR MAIN	34647000324				KG	18.880					
							TK		WDT	LEN	ID		OD	DIM1	00			
				00003	OMIT IT. 001 ITEM 007 LG.=212 HV SIDE	024	LIFTING PIN ASSY. (DIA 110)TOP	24997000047					4.080					
							TK		WDT	LEN	ID		OD	DIM1	01			

DISTRIBUTION DETAILS				REV NO. 1		PREP BY		CKD BY		APPD BY		DATE 20 OCT 2018	
TRM	TRX	TRE		PREP BY	CKD BY	APPD BY	DATE						
3	1	1		RP	LK	AKP	13 AUG 2018						

BILL OF MATERIAL				DEP NO	NO OF IT	VAR	TYPE OF PRODUCT	WORK ORDER 67038A51201	DRG NO 14647000167	CORE CODE 65170700	REV 01	
				406	60	0	500MVA 3PH AUTO TRF.UPPTC	TITLE CORE AND END FRAME ASSY. TOP END FRAME F				SHT NO 3 OF 5

DU	VAR03	VAR02	VAR01	VAR00	REMARKS	IT NO	DESCRIPTION	DRAWING NO	IT.	MATCODE	A / C	UT	UNIT	WT	G / S
							MAT SIZE	DETAILS		MAT SPEC			QTY	ZONE	
				00002	T=110= (50+50+8+2 TK), W=230,W1=280	025	INSULATION FOR AUX. CROSS BEAM TK WDT LEN ID OD DIM1	34997000078				KG		10.590	
									01						
				00012	19 TK X 50 I/D X 136 O/D (P'BD)FOR YOKE BOLT	026	WASHER P'BD TK WDT LEN ID OD DIM1	34527000071	008					0.400	
				00003	OMIT IT. 001 ITEM 007 LG=127 LV SIDE	027	LIFTING PIN ASSY. (110 DIA)TOP TK WDT LEN ID OD DIM1	24997000047				KG		4.080	
									05						
				00005	T=15(5//3TK),W=230,L=790, C=182, D=100	028	TOP CROSS BEAM INSULATION TK WDT LEN ID OD DIM1	44997000017	001			KG		2.610	
				00002	L=888,W=240,T=32(25+4+3)	029	END TIE PLATE INSULATION P'BD TK WDT LEN ID OD DIM1	44997000043	002			KG		2.990	
										AA21108&09					
				00004	PHENOLIC	030	AUX. CLAMP PLATE SEPERATOR TK WDT LEN ID OD DIM1	34647000324				KG		8.040	
									01						
				00042	Z.P.P. FOR CROSS BEAM MTG.	031	WASHER MCD SCB31 (4TK) TK WDT LEN ID OD DIM1			AA7161001110				0.052	
				00012		032	EPOXY BUSH FOR YOKE BOLT TK WDT LEN ID OD DIM1	44997000073	001	BP9066059408				0.300	
				00004	L=780 USE 5//3 TK=15 tk.	033	FOOT INSULATION (MAIN) TK WDT LEN ID OD DIM1	44997000044				KG		3.650	
									01						
				00012	4TK X 50 I/D X 136 O/D FOR YOKE BOLT	034	ROUND WASHER EPOXY TK WDT LEN ID OD DIM1	34527000071	007					0.064	
							4								
				00006	L=830, FOR TIE ROD	035	EPOXY TUBE TK WDT LEN ID OD DIM1		001	BP2241097080		KG		0.143	
				00024	ZPP FOR END TIE ROD	036	HEX NUT M36 TK WDT LEN ID OD DIM1	34577000004	001			KG		0.300	

DISTRIBUTION DETAILS				REV NO. 1		PREP BY		CKD BY		APPD BY		DATE 20 OCT 2018	
TRM	TRX	TRE		PREP BY		CKD BY		APPD BY		DATE			
3	1	1		RP		LK		AKP		13 AUG 2018		DRG NO 14647000167	
												SHT 3 OF 5	

BILL OF MATERIAL				DEP NO	NO OF IT	VAR	TYPE OF PRODUCT	WORK ORDER 67038A51201	DRG NO 14647000167	CORE CODE 65170700	REV 01	
				406	60	0	500MVA 3PH AUTO TRF.UPPTC	TITLE CORE AND END FRAME ASSY. TOP END FRAME F				SHT NO 5 OF 5

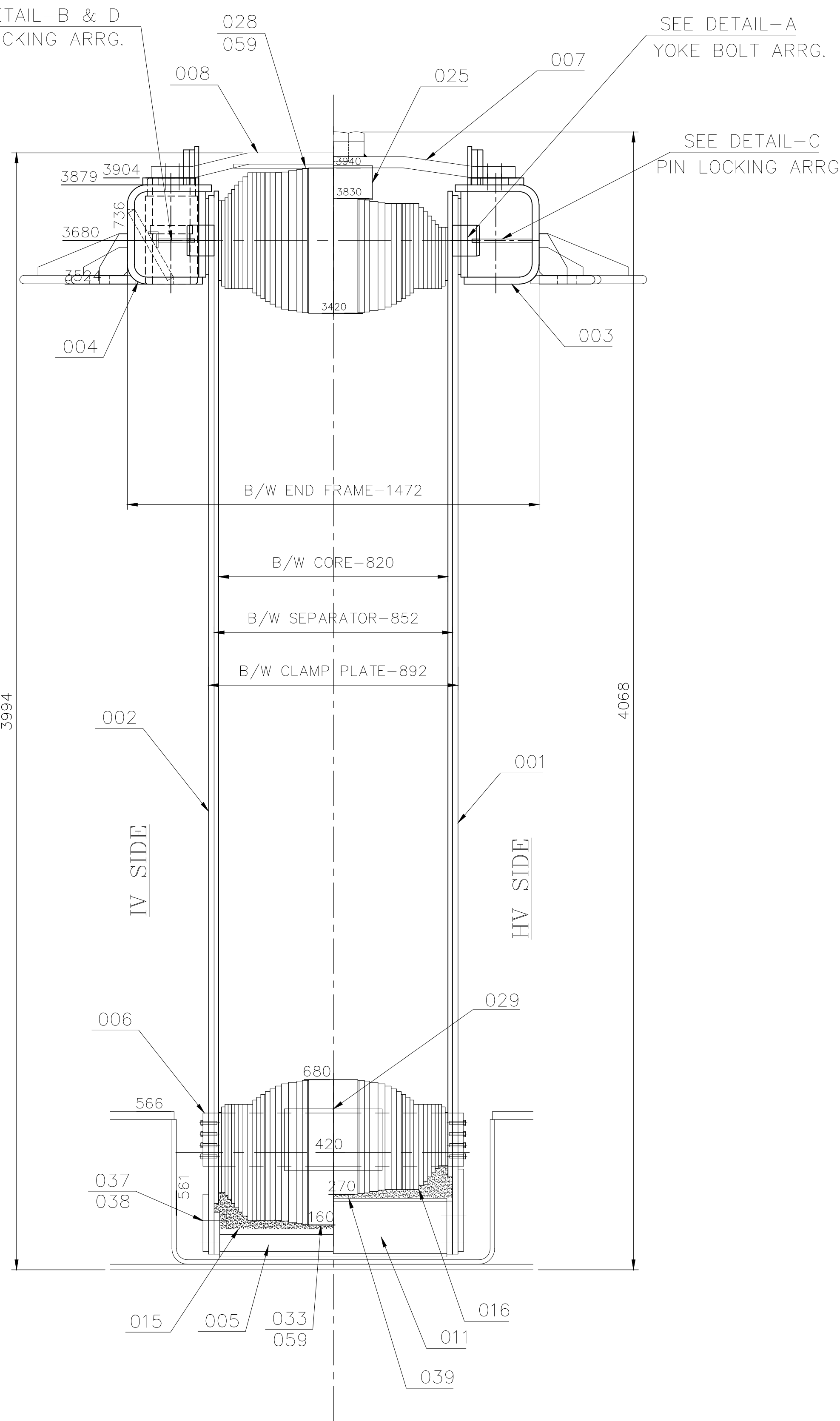
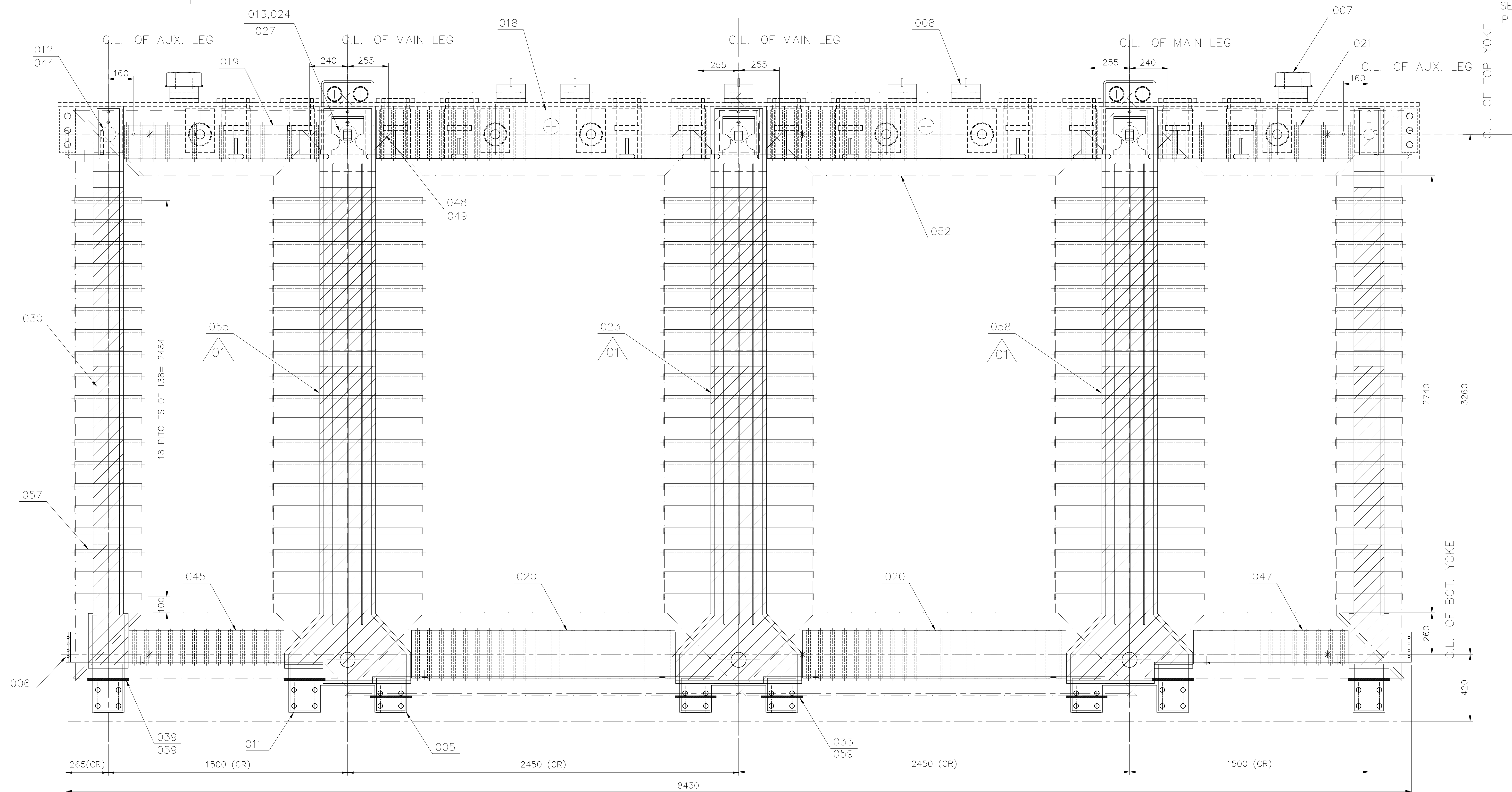
DU	VAR03	VAR02	VAR01	VAR00	REMARKS	IT NO	DESCRIPTION	DRAWING NO	IT.	MATCODE	A / C	UT	UNIT	WT	G / S
							MAT SIZE	DETAILS		MAT SPEC			QTY		ZONE
				00016		049	SQUARE NUT M12 EPOXY TK WDT LEN ID OD DIM1	TR20030N	008			KG		0.001	
				00024	FOR TIE ROD (TOP)	050	WASHER MCD 37 ST TK WDT LEN ID OD DIM1			AA7161001129		KG		0.020	
				00024	FOR TIERODS	051	SPRING WASHER FOR M36 TK WDT LEN ID OD DIM1			AA7164002126		KG		0.020	
					SEE COMP. SHEETS, WT.=98952.3	052	CORE ASSY TK WDT LEN ID OD DIM1	34647000321				KG		98952.300	
				00001	AS REQD	053	KRAFT PAPER (TYPE-B) TK WDT LEN ID OD DIM1			AA2111617032				0.008	
				00001	INSERT IN SUIT. POS	054	SERIAL PLATE (0.8 X 50 X 50) TK WDT LEN ID OD DIM1	44997000067	001	ST600806		KG		0.005	
				00002	HV/LV SIDE PHENOLIC	055	CLAMP PLATE SEPARATOR MAIN TK WDT LEN ID OD DIM1	34647000324				KG		13.730	
				00001		056	CORE TO COIL PACKING TK WDT LEN ID OD DIM1	34647000322				KG		243.460	
				00001	AS REQD.1120 MTR.	057	RESIN GLASS TAPE TK WDT LEN ID OD DIM1			AA2571616013		KG		12.000	
				00002	HV/LV SIDE PHENOLIC	058	CLAMP PLATE SEPARATOR MAIN TK WDT LEN ID OD DIM1	34647000324				KG		13.730	
				00001	AS REQD. CUT TO SUIT ON ASSY.	059	NOMEX PAPER TK WDT LEN ID OD DIM1			AA2291501100					

10459.

DISTRIBUTION DETAILS				REV NO. 1		PREP BY		CKD BY		APPD BY		DATE 20 OCT 2018	
TRM	TRX	TRE		PREP BY		CKD BY		APPD BY		DATE			
3	1	1		RP		LK		AKP		13 AUG 2018		DRG NO 14647000167	
												SHT 5 OF 5	

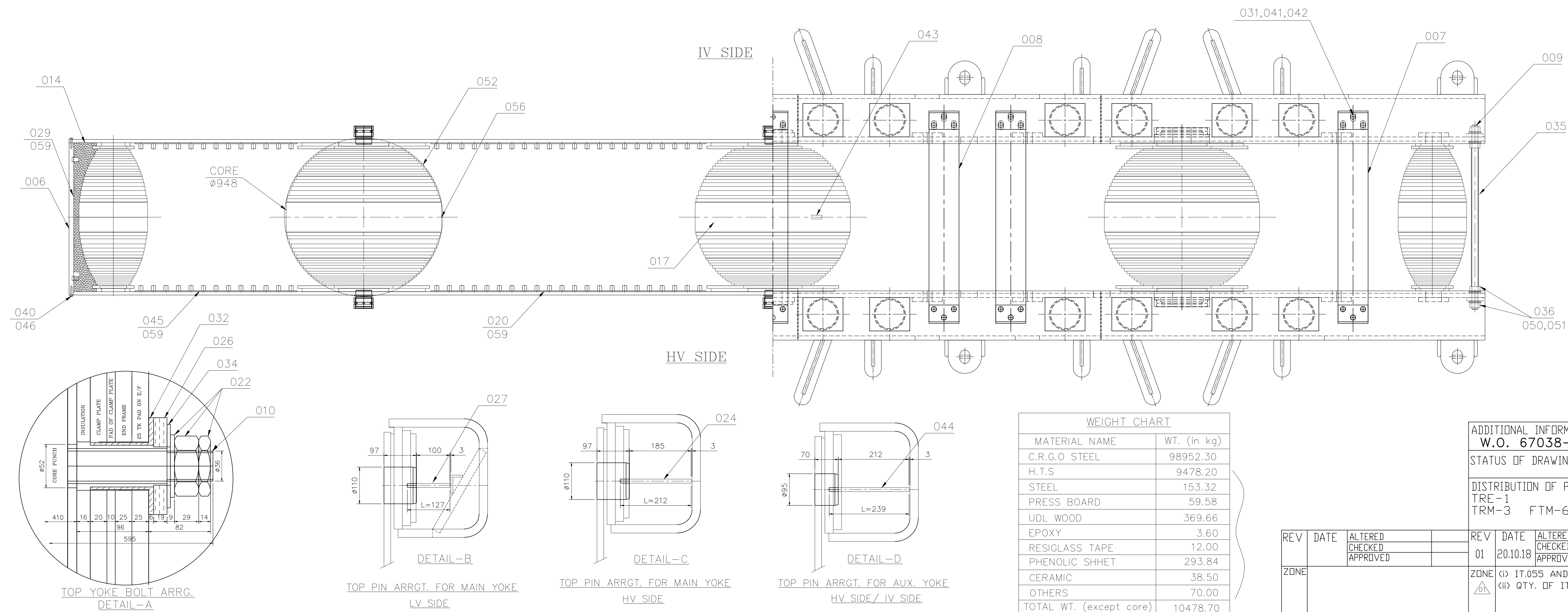
(ALL DIMENSIONS ARE IN mm)

1 464 70 00167

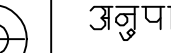


NOTES:-

01. FOR BOM REFER DRG NO. 1 464 70 00167.
02. AFTER ASSY. CORE IS TO BE TESTED BETWEEN CORE & END FRAME AND CORE & YOKE BOLT AS PER QA PLAN.
03. ALL STEEL PART ARE TO BE SHOT BLASTED AND PAINTED AS PER TRE SHEET TR 10005P SL.NO. 2(A)
04. ALL SHARP CORNERS TO BE ROUNDED OFF.
05. ALL HARDWARE TO BE CPP/ZPP AS PER TRE STD. SHEET TR10017P SL.N.O-3.
06. BEFORE PUTTING THE YOKE BOLTS THE INSIDE OF HOLES AND EDGES OF LAMINATIONS ARE TO BE VARNISH COATED WITH THE HELP OF BRUSH. THE VARNISH SHOULD BE SUFFICIENTLY ENOUGH THIS IS FOR ASSURING NO DIFFUSION SHOULD TAKE PLACE BETWEEN LAMINATIONS.
07. REMOVE THE PAINT CAREFULLY AT THE CONTACT OF EARTHING.
08. FOLLOWING TESTS ARE TO BE CONDUCTED AS PER QA PLAN IN ADDITION TO THE TESTS COVERED IN NOTE-2.
 - (a) CORE TO END FRAME OF TRANSFORMER.
 - (b) END FRAME TO COVER BEFORE SHIPMENT.
09. TIGHTENING TORQUE OF YOKE BOLT TO BE 65 KGM (MIN.).
10. ALL INSULATING PRESS BOARD ITEM TO BE OIL IMPREGNATED BEFORE TEST.
11. PRELIMINARY IRON LOSS TEST TO BE CONDUCTED IN FIRST UNIT.
12. TOTAL CORE PRESSING FORCE TO BE APPLIED BEFORE LIFTING - 350 T.
13. USE STEEL BAND 25 NOS. ON MAIN LIMB ALONG WITH 10 NOS. OF GREEN BELT OF CAPACITY 5 T EACH.(SIZE OF BAND =0.8TK X 32W) BEFORE LIFTING THE CORE.
14. USE STEEL BAND 12 NOS. ON AUX. LIMB ALONG WITH 5 NOS. OF GREEN BELT OF CAPACITY 5 T EACH. (SIZE OF BAND =0.8TK X 32W) BEFORE LIFTING THE CORE.



WEIGHT CHART	
MATERIAL NAME	WT. (in kg)
C.R.G.O STEEL	98952.30
H.T.S	9478.20
STEEL	153.32
PRESS BOARD	59.58
UDL WOOD	369.66
EPOXY	3.60
RESIGLASS TAPE	12.00
PHENOLIC SHHET	293.84
CERAMIC	38.50
OTHERS	70.00
TOTAL WT. (except core)	10478.70

ADDITIONAL INFORMATION W.O. 67038-A-512-01				उत्पाद का प्रकार या गृहक / परियोजना का नाम 500 MVA,400/220/33KV,3 PH. AUTO TRANSFORMER																											
STATUS OF DRAWING 'U'				TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT M/S UPPCTCL																											
DISTRIBUTION OF PRINTS TRE-1 TRM-3 FTM-6				भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल BHARAT HEAVY ELECTRICALS LTD BHOPAL कमरा नं. 101 जिला राजस्थान पिन कोड 322001 भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल <table><thead><tr><th>नाम</th><th>NAME</th><th>हस्ताक्षर</th><th>SIGN</th><th>दि. DATE</th><th>वै. को</th></tr></thead><tbody><tr><td>RP</td><td></td><td></td><td>(Signature)</td><td>13.08.18</td><td>नहीं है</td></tr><tr><td>LK</td><td></td><td></td><td>(Signature)</td><td>13.08.18</td><td>नहीं है</td></tr><tr><td>NM/AD</td><td></td><td></td><td>-SD-</td><td>13.08.18</td><td>-</td></tr></tbody></table>				नाम	NAME	हस्ताक्षर	SIGN	दि. DATE	वै. को	RP			(Signature)	13.08.18	नहीं है	LK			(Signature)	13.08.18	नहीं है	NM/AD			-SD-	13.08.18	-
नाम	NAME	हस्ताक्षर	SIGN	दि. DATE	वै. को																										
RP			(Signature)	13.08.18	नहीं है																										
LK			(Signature)	13.08.18	नहीं है																										
NM/AD			-SD-	13.08.18	-																										
REV	DATE	ALTERED CHECKED APPROVED		REV	DATE	ALTERED CHECKED APPROVED	RP LK	निर्माण टैग PART कोड 406			SCALE उपजात NTS	भारत के पैमाने WEIGHT (kg) REF TO ASSY DRG SEE TABLE	मद का ITEM NO.	मद सेना NUT VAR -																	
ZONE				ZONE				(i) IT.055 AND IT. 058 ADDED. (ii) QTY. OF IT. 023 WAS 6.				शीर्षक /TITLE CORE & END FRAME ASSY.				DRAWING NO. 1 464 70 00167				पृष्ठ क्र. SHT NO. 01				NDT'S SHT. 01							

(ALL DIMENSIONS ARE IN mm)

2

3

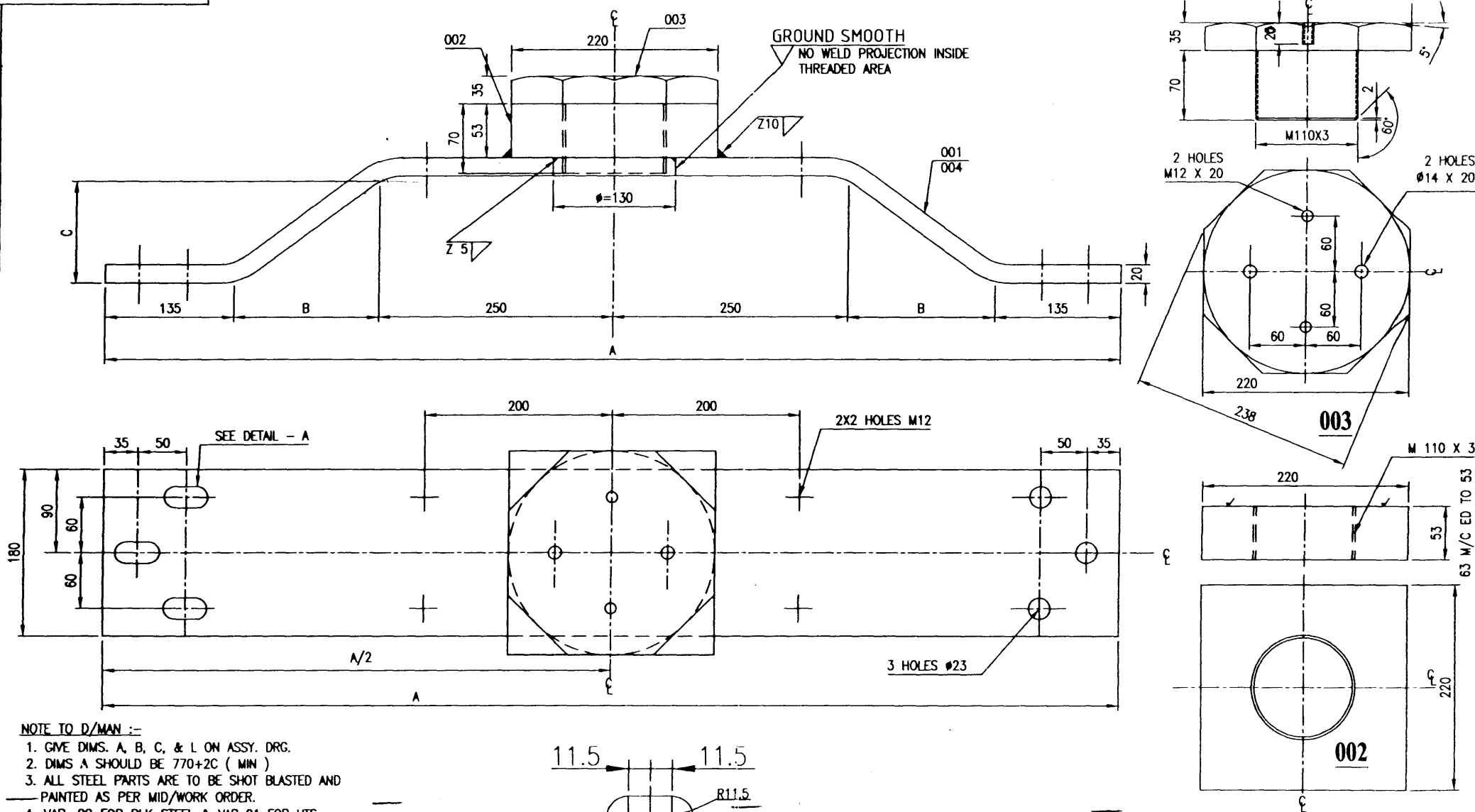
4

5

6

100

1



1. GIVE DIMS. A, B, C, & L ON ASSY. DRG.
2. DIMS A SHOULD BE $770 \pm .2C$ (MIN)
3. ALL STEEL PARTS ARE TO BE SHOT BLASTED AND PAINTED AS PER MID/WORK ORDER.
4. VAR. 00 FOR BLK STEEL & VAR 01 FOR HTS.
5. FOR DELINKED BOM REFER DRG. NO. BOM 3 499 70 00080.
6. WEIGHT OF IT. 001 IS $[0.028296 \times L - 2]$ KG.
WT OF VAR 00 OR 01 = $[34.7 \times (0.028 \times L) - 2]$ KG.

1. DRILL & TAP OF M110 ON ITEM 002 SHALL BE DONE BEFORE WELDING TO ITEM 001/004

2. MATCHING & MOVEMENT OF THREADS OF ITEM 002 & 003
TO BE ENSURED

3. ALL SHARP CORNERS TO BE ROUNDED OFF.

REV	DATE	ALTERED CHECKED APPROVED
ZONE		

DETAIL - A

REV	DATE	ALTERED		REV	DATE	ALTERED	S.C.G.
		CHECKED		02	25/10/10	CHECKED	A.D.
		APPROVED				APPROVED	S.C.B.
ZONE						ITEM 2 MODIFIED & ITEM 3 ADDED.	

ADDITIONAL INFORMATION STANDARD				TRANSFORMER					
STATUS OF DRAWING				TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
DISTRIBUTION OF PRINTS				भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल BHARAT HEAVY ELECTRICALS LTD. BHOPAL					
TIR	TRM	TRX			कलाना DRN सिद्धि रत्न महोदय	नाम NAME	रजिस्ट्रेशन	दि. DATE	फिल डिप यार
1	3	1				O.PAL	Sd/-	22.02.98	
						T.S.SUBA	Sd/-	22.02.98	
						S.SIONDE	Sd/-	22.02.98	
REV.	DATE	ALTERED G.P.D.	Sd/-			SCALE उत्तुपति NTS	भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल	ड्राइंग का संख्या REF TO ASSY Dwg 2 499 70 00021	ड्राइंग का ड्राइंग का ड्राइंग का
01	17-01-2000	APPROVED: S.C.B.	Sd/-						
DRG. COMPUTERISED, IT. 002.003 MODIFIED.				ड्राइंग का/TITLE TOP LOCKING BEAM ASSY.				ड्राइंग का ड्राइंग का ड्राइंग का	ड्राइंग का ड्राइंग का ड्राइंग का
				DRAWING NO. 3 499 70 000 80					

MASTER GENERAL ASSEMBLY

BHEL, Bhopal

Transformer Engg. Department

[View MGES Detail](#)

W. O. No. **67038F51208** Year Code: **2017** MGES_No: **14649904277** MID NO: **406410004**
 Customer: **M/S UPPTCL** Rating: **500MVA**
400/220/33KV 3-PHASE ICT NOIDA Prod_GR: **464** QA_NO:
 Elec. Spec. **6010411** Trfr_SI_Nos **6007811** No_Units **1**
 Design Group **SHRI AKSHAY DAVE** Elec. DO **SHRI LALIT KUMAR** Mech.DO **SHRI SAURABH CHAUHAN** Ent Dt : **10/15/2020**

[>> Engg PI List](#) [>> Engg Status](#) [>> Engg.PI.](#) [>> Imported Engg.PI. Between Dates](#) [>> GSOS PI.](#) [>> All.PI.](#) [>> MBox Shiplist](#) [>> DCA](#)

[CTSO](#) [Mechanical Test Instructions](#) [Tap Changer Data](#) [Cooler Control Cabinet Data](#)

Manufacturing Plan : [6007811](#)Shipping List : [6007811](#)

Sl. No.	Description	Drg. no.	Rev No.	Var. No	Qty	Issue dt.	Choose	Remarks	Trm_dt	Docket
1	CORE AND END FRAME ASSY	14647000167	01	00	1	4/23/2021	Y	OMIT ITEMS ALREADY COVERED IN DRG. 34647000323 CALLED AT SL NO. 03		1
2	CORE LAMINATION	34647000321	02	00	1	4/23/2021	Y	GRADE-ZDKH90/0.27		
3	CORE STEEL PARTS	34647000323	00	00	1	4/23/2021	Y			
5	ADDITIONAL DRILLING ON E/F TOP	24647000092	00	00	1	4/23/2021	Y			
6	COIL ASSY	04647700136	03	00	3	4/23/2021	Y			1
7	LV WINDING ASSY	24647200049	02	00	3	4/23/2021	Y			1
8	HV WINDING ASSY	24647400035	01	00	3	4/23/2021	Y			1
10	TAPPING WINDING ASSY	24647500037	03	00	3	4/23/2021	Y			1
14	COMMON WINDING	24647300112	03	00	3	4/23/2021	Y			1
15	INSIDE FITTINGS	04648100108	00	00	1	4/23/2021	Y			1
17	HV T.G. ASSY	14648200037	01	00	1	4/23/2021	Y			1
18	TAPPING T.G. ASSY	04648300090	02	03	1	4/23/2021	Y	var 03 is for all three PHASES		1
19	TERTIARY T.G. ASSY	04648300089	00	00	1	4/23/2021	Y			1
21	OUTSIDE SIDE FITTINGS	14641900276	01	00	1	4/23/2021	Y			
22	SET OF GASKET FOR TREATMENT	34645000073	00	02	1	4/23/2021	Y			
23	SET OF GASKET FOR ERECTION	34645000073	00	01	1	4/23/2021	Y			
24	SET OF GASKET FOR HEAT RUN	34645000073	00	03	1	4/23/2021	Y			
25	WIRING SYSTEM	14646500030	00	00	1	4/23/2021	Y			
26	TANK ASSY	24641600103	03	00	1	4/23/2021	Y			
31	BOTTOM TANK ASSY	14641700061	03	00	1	12/30/2021	Y			
33	ADDITIONAL PAD WELDING	34641700106	01	00	1	3/14/2022	Y	additional pad welding for bottom tank		
34	HV TURRET ASSY. U PHASE	34642100102	01	00	1	12/30/2021	Y			

35	HV TURRET ASSY. V PHASE	34642100104	01	00	1	12/30/2021	Y	
36	HV TURRET ASSY. W PHASE	34642100103	01	00	1	12/30/2021	Y	
38	IV TURRET ASSY. U PHASE	34642400076	01	00	3	12/30/2021	Y	
47	CT MTG IN HV TURRET U PH	34642100105	00	00	2	3/14/2022	Y	FOR U & W PHASE
48	CT MTG IN HV TURRET V PH	34642100105	00	00	1	3/14/2022	Y	FOR V PHASE
50	CT MTG IN HV TURRET HVN PH	14648100168	01	00	1	3/14/2022	Y	TANK MOUNTING CT
51	BLANKING I	34648800259	00	0	1	12/30/2021	Y	
54	HEADER PIPE WORK SYSTEM	14644300041	01	00	1	12/30/2021	Y	
56	MAIN CONS. P/W. SYSTEM	14645100060	03	00	1	12/30/2021	Y	
57	AUX. P/W. SYSTEM	14645300006	00	00	1	12/30/2021	Y	
58	RADIATOR/COOLER	44644300060	00	00	1	3/14/2022	Y	32-9-28-3500 VC
59	BLANKING II	34648800260	00	00	1	12/30/2021	Y	
79	MAIN CONSERVATOR	34643900078	00	0	1	12/30/2021	Y	
80	CT MTG IN IV TURRET U PH	34642400077	00	00	3	3/14/2022	Y	
88	INSIDE FITTING (WALL SHUNT ASSY)	34641600159	04	0	1	1/6/2022	Y	
112	PAINTING DETAILS FOR TANK,E/F ASSY AND ACCESSORIES	TR10005P	21	00	1	3/14/2022	Y	SL NO. 22, PAINT SHADE 631 OF IS5
131	FIBRE OPTIC SYSTEM	44640000136	00	00	1	3/14/2022	Y	FIBRE OPTIC LOCATION

[illegible]

