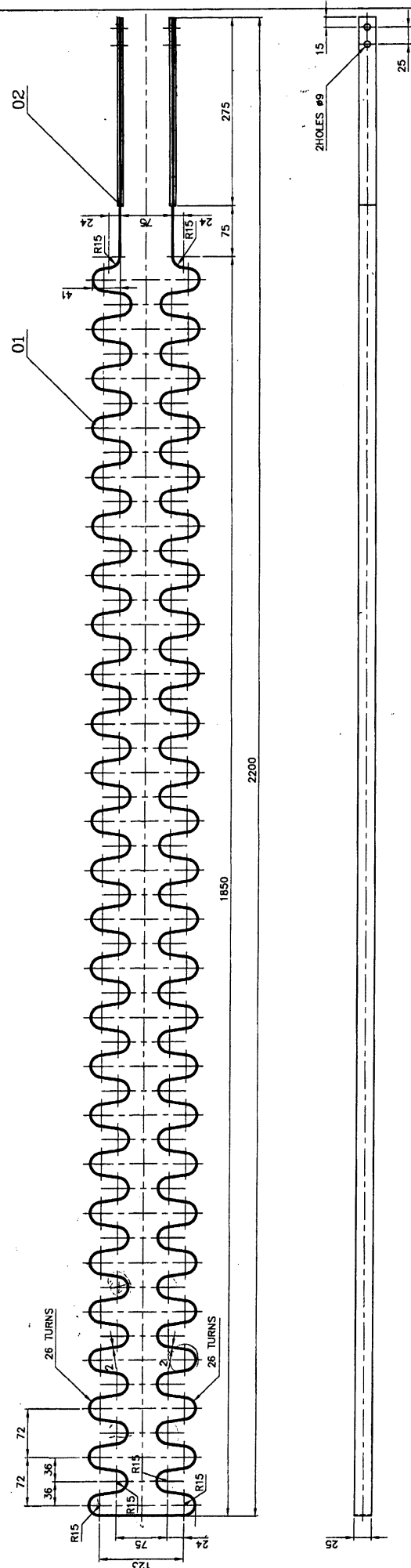


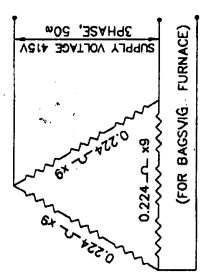
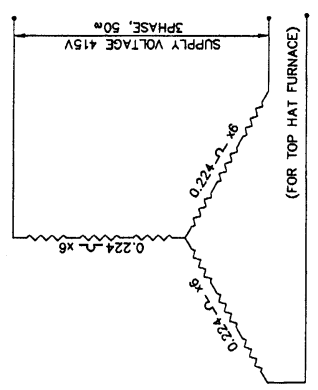
FORM NO : 30

ALL DIMENSIONS ARE IN MM

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- 01 . HEATING ELEMENT MATERIAL : KANTHAL BRAND AF GRADE.
- 02 . SIZE OF STRIP : 25mm WIDTH x 2mm THICK.
- 03 . NO OF TURNS IN EACH ELEMENT : 52
- 04 . STRETCHED LENGTH OF STRAIGHT STRIP FOR EACH ELEMENT INCLUDING THE TERMINALS OF KANTHAL AF GRADE STRIP ONLY-8.445 METRE.
- 05 . COLD RESISTANCE OF EACH ELEMENT INCLUDING THE TERMINALS - 0.224 OHM.
- 06 . NO OF HEATING ELEMENTS IN BAGSVIG & TOP HAT FURNACE, 27 & 18 NOS RESPECTIVELY.
- 07 . WEIGHT OF EACH ELEMENT INCLUDING THE TERMINALS - 3.415 KG.
- 08 . CONNECTION DIAGRAM OF HEATING ELEMENTS.

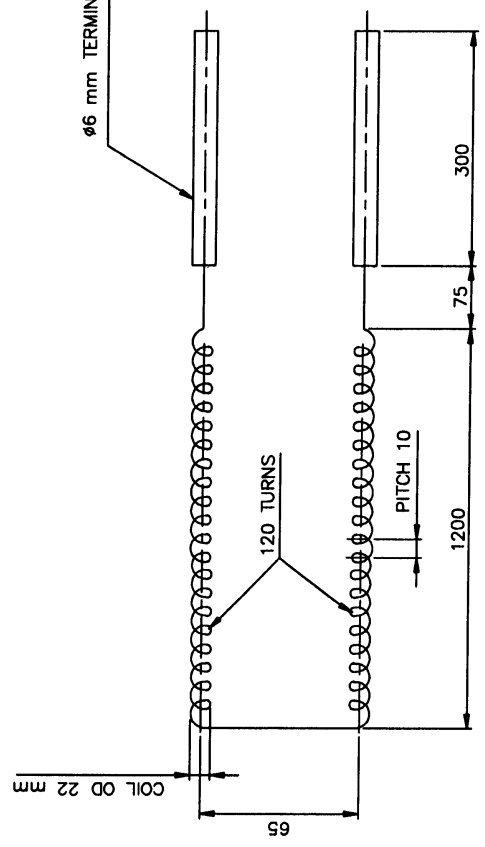


09 . MAXIMUM FURNACE TEMPERATURE - 800°C

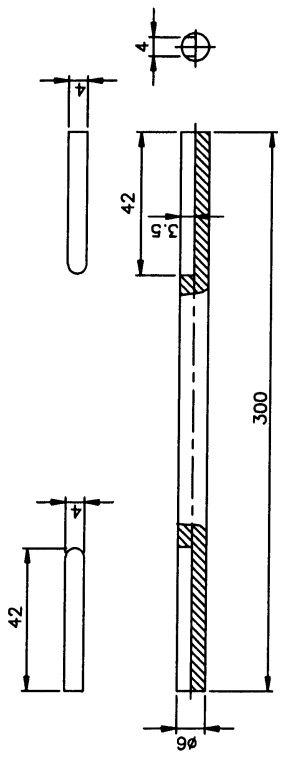
04	PL 2x25x275	KANTHAL	D- GRADE	0.395	02
01	PL 2x25x8445	KANTHAL	AF GRADE	3.020	01
				3.415	4-M-18A-0114
DESCRIPTION		MATERIAL	STANDARD	MET.WT IN KGS	BRANDING No.
REFERENCE: REF: 2-E-09-98-858		COMPONENT CODE: 00	EQUIPMENT CODE: 24	DCN REF	DATE
SCALE	DRAWN	CHECKED	APPROVED	DATE	REV.
1:4	A. RAJAGOPALAN	R. Ramesh		20.09.1997	24
TITLE: ELECTRICAL FURNACE					
BRANDING No: 2-E-18A-04154					
REV. 24					
Sheet No					

Item No: 60.

ALL DIMENSIONS ARE IN MM



Ø6 mm TERMINAL ROD-KANTHAL 'D' GRADE



DETAILS OF TERMINAL ROD

SPECIFICATIONS: -

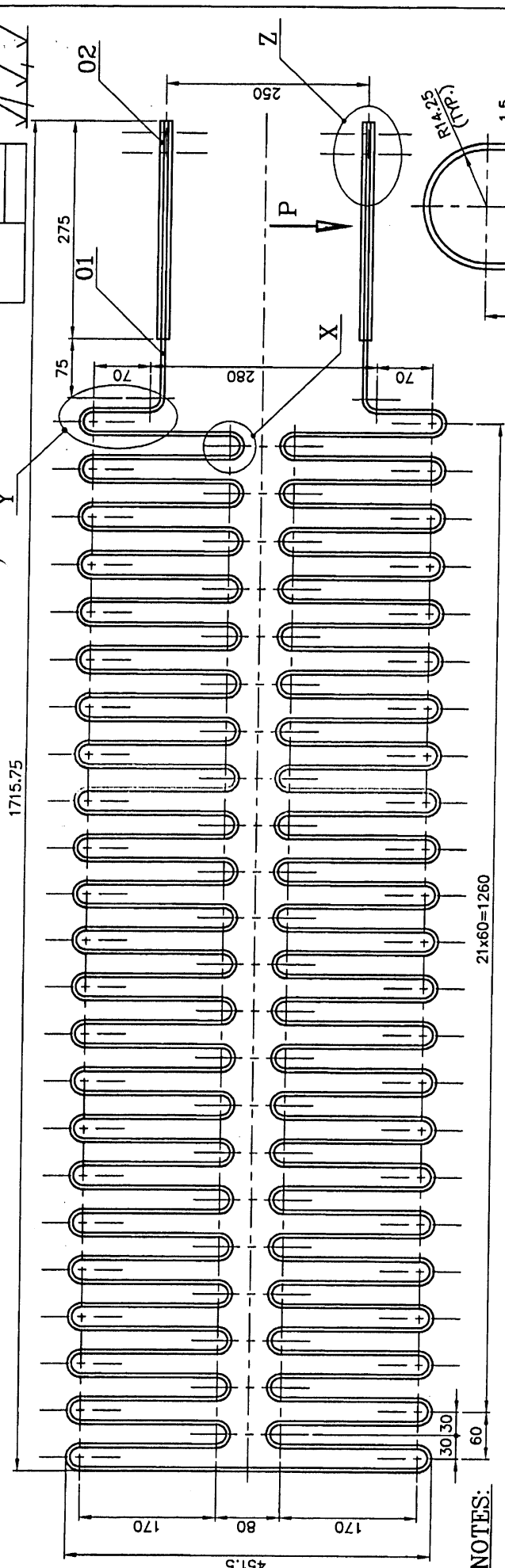
- 'KANTHAL' HEATING ELEMENT RESISTANCE WIRE- AF GRADE
- WIRE DIAMETER- 3.5 mm
- COIL OUTSIDE DIAMETER- 22 mm
- PITCH- 10 mm
- LENGTH OF COIL- 1200 mm
- NO.OF TURNS IN EACH COIL- 240 TURNS
- NO.OF COILS REQUIRED FOR THE FURNACE- 3 NOS,
- Ø6 mm TERMINAL ROD- KANTHAL 'D' GRADE
- TOTAL COLD RESISTANCE FOR THE COIL-2.08 ohms.

REMARK: -
 THE TERMINAL ROD MUST BE WELDED TO THE COIL-
AT THE END SUITABLY.

No. of Pieces	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.	TRN No.
	REFERENCE: LOC.No.1715-2466		COMPONENT CODE: ALTERATIONS:	EQUIPMENT CODE:		
SCALE	DRAWN	P.A.ROSS		DCN REF	DATE	SIGN.
✓	CHECKED					INDEX
	APPROVED					
	DATE	07-07-09				
MACHINE: ELECTRICAL FURNACE			TYPE: ELHEAT IT-60 KW.			
TITLE: BACK WALL COILS HEATING ELEMENT			DRAWING No. 3E118A10139115		REV.	
			No. of Sheets		Sheet No.	

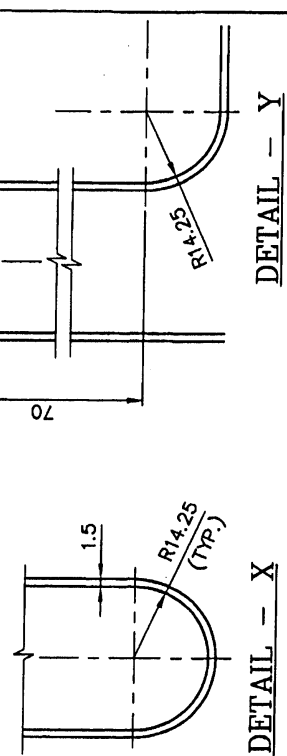
CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM-FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED TRICHYRAIPALLI - 620 014.

ALL DIMENSIONS ARE IN MM



NOTES:

- 01 . HEATING ELEMENT MATERIAL : KANTHAL BRAND AF GRADE.
- 02 . SIZE OF STRIP : 20mm WIDTH x 1.5mm THICK.
- 03 . NO OF TURNS IN EACH ELEMENT : 23
- 04 . STRETCHED LENGTH OF STRAIGHT STRIP FOR EACH ELEMENT INCLUDING THE TERMINALS OF KANTHAL AF GRADE STRIP ONLY-20.508 METRE.
- 05 . COLD RESISTANCE OF EACH ELEMENT INCLUDING THE TERMINALS - 0.932 OHM.
- 06 . NO OF HEATING ELEMENTS IN THE FURNACE 06 NOS.
- 07 . WEIGHT OF EACH ELEMENT INCLUDING THE TERMINALS - 4.662 KG.
- 08 . CONNECTION DIAGRAM OF HEATING ELEMENTS.

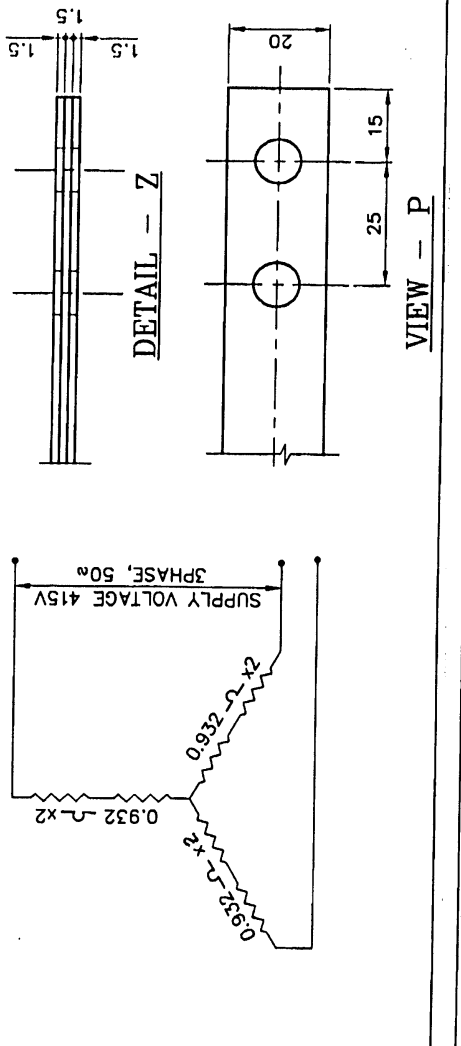


NO OF SHEETS	DESCRIPTION	MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING NO.	REV.
04	PL1.5x20x275	KANTHAL	D- GRADE	0.237		02
01	PL1.5x20x8445	KANTHAL	AF GRADE	4.425		01
				4.662		04

SCALE	DRAWN	CHECKED	APPROVED	DATE	DCN REF	DATE	SIGN.	INDEX
1:5 & 1:1	A. RAJA	R. Ramani		09.12.1997				

REFERENCE	ALTERATIONS	DCN REF	DATE	SIGN.	INDEX

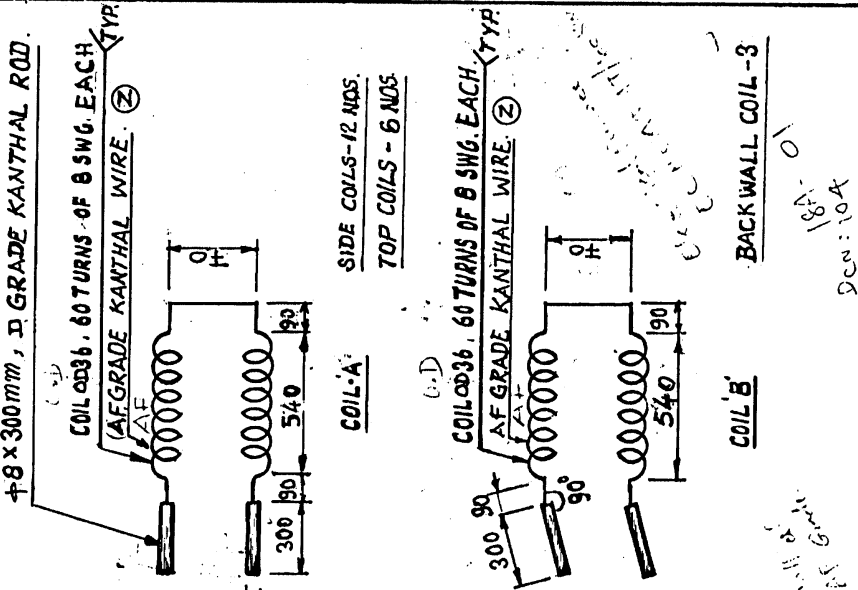
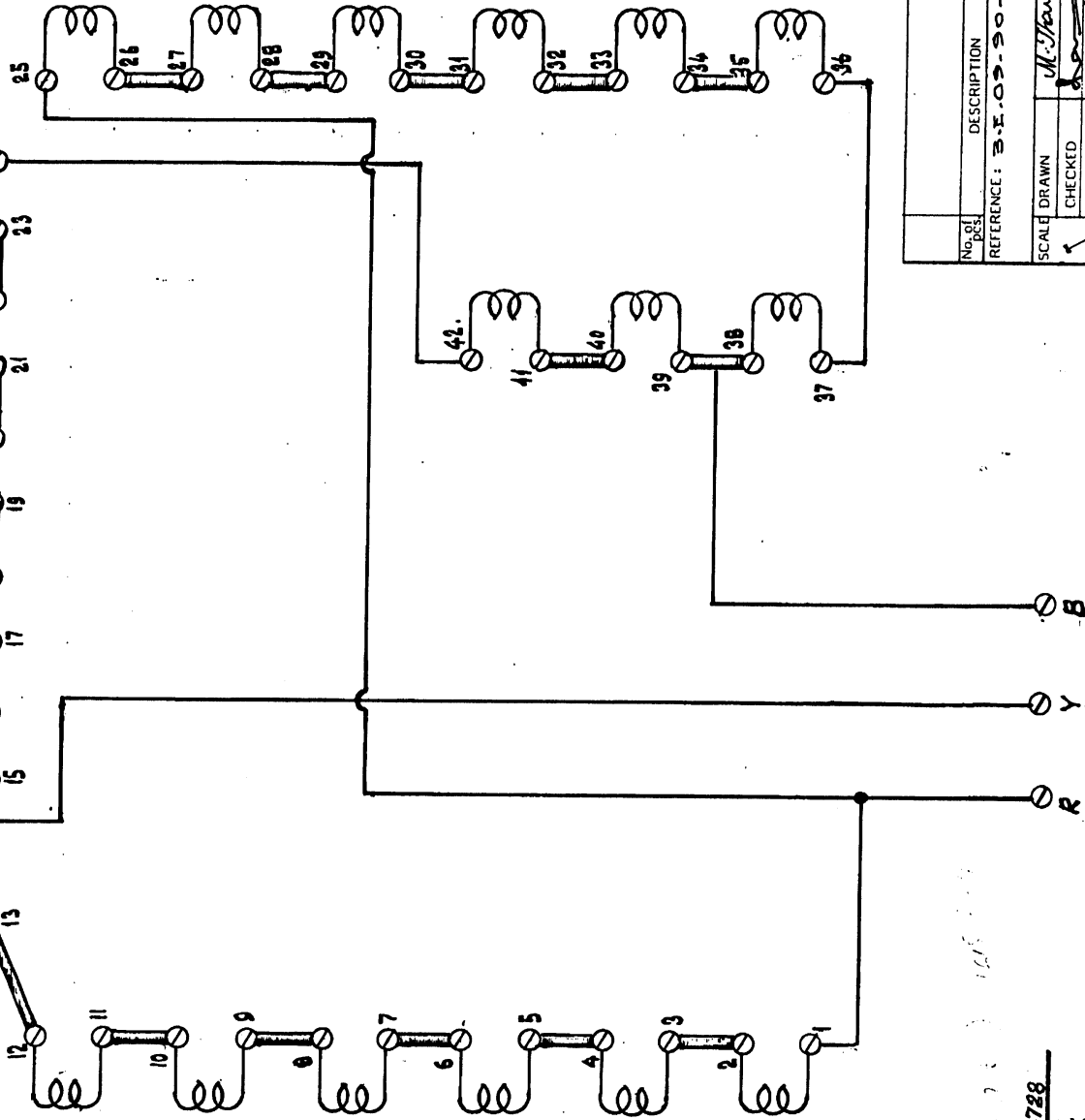
MACHINE: ELE. CAR BOTTOM FURNACE	TYPE: PRECON-TT-96KW
TITLE: STRIP ELEMENT	DRAWING No: 18A01
	3-M-18G-10987
	REV.



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39-609 A

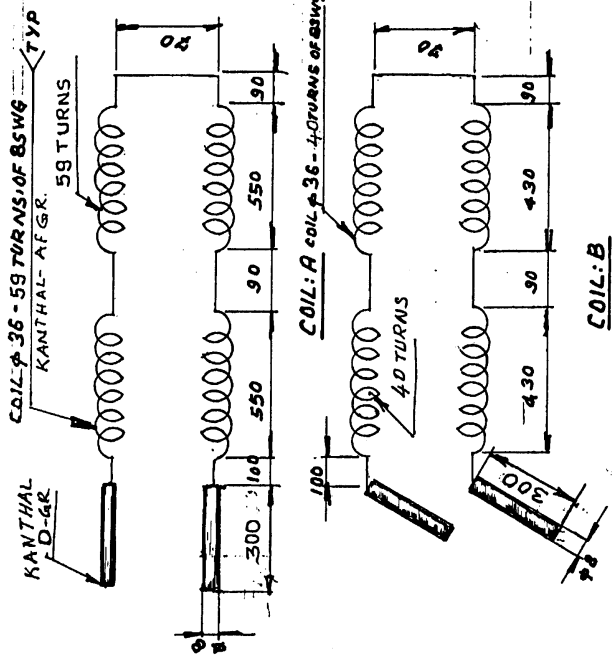
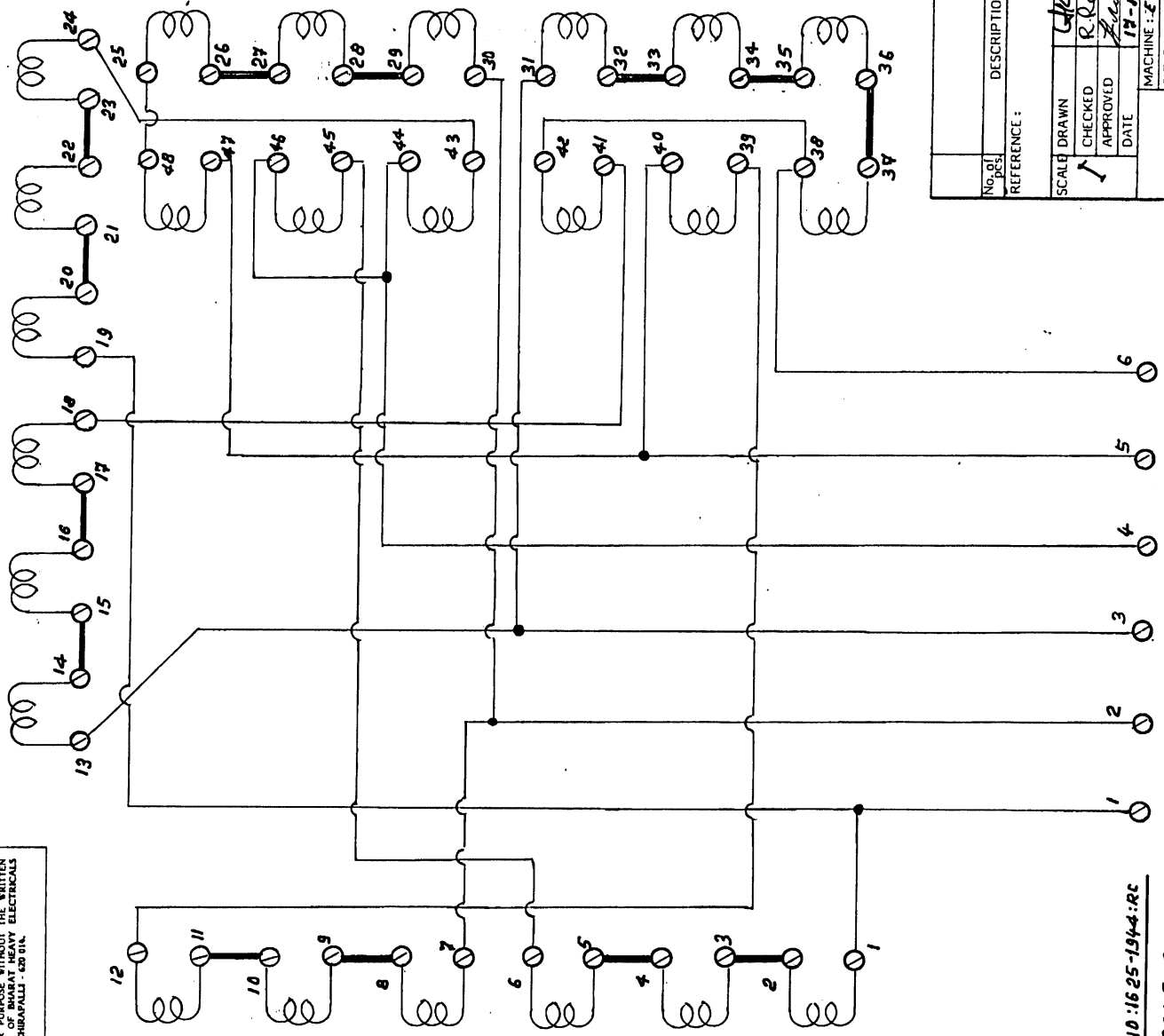


KANTHAL		AF GRADE		MATERIAL		ST/D/BPS		NET GROSS Wt./kg/WT/EG		DRAWING No.	
No. of Pcs		DESCRIPTION		ALTERATIONS		E.C.O.		C.C.A.C.		DATE	
REFERENCE: 3-E-03-90-1311		M. Mangaraju		NOTE: ADDED.		10-4-92		18-10-98		104	
SCALE DRAWN		CHECKED		APPROVED		DATE		MACHINE: ELECTRICAL FURNACE		TYPE: EL HEAT ST/GRW Total wt. (kg)	
TITLE		HEATING ELEMENT & TERMINAL CONNECTION		DRAWING No.		3-E-18A-11380		REV.		No. of Sheets: Sheet No.	

LOC. NO : 0728
 BLDG : 51K.
 COIL : A : 1 TO 36, NO OF COILS : 18.
 COIL : B : 37 TO 42, NO OF COILS : 3

Caution
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V 609-63



ALL DIMENSIONS ARE IN MM

No. of DES.	DESCRIPTION	MATERIAL	STD/BPS	Net Wt. (kg)	Net Wt. (kg)	DRAWING No.	REV.
REFERENCE:		ALTERATIONS	EE-04	CC-06	NEW	DATE	SIGN.
SCALE	DRAWN					105	
CHECKED	APPROVED						
DATE							
MACHINE: ELE-CAR BOTTOM 4		TYPE: PRECON-21-96		Total wt. (kg)			
TITLE		DRAWING No. 3-E-18C-11383					
HEATING ELEMENT & TERMINAL CONNECTION		No. of Sheets: Sheet No.					

LOC. NO: 1625-1944:RC

RAY 5. 8L9. 6

COIL-A: 1 TO 36: NO OF COILS: 18

COIL-B: 37 TO 48: NO. OF COILS: 6

