

149ST103

CUSTR: M/S NUCLEAR POWER CORPORATION.  
 ( GOVERNMENT OF INDIA ENTERPRISE )

NUCLEAR POWER CORPORATION (A GOVT. OF INDIA ENTERPRISE)
<b>APPROVED</b>
SIGNATURE & DATE <i>K. Loganathan</i> 13/2/92

PROJECT: KAIGA ATOMIC POWER PROJECT UNIT 1

BOARD REF: 415V SWITCHGEAR - CLASS - IV - 5241 - BUS L

NPCL DRG. NO.: KAIGA - 1 / 52421 / 2553 / ED / REV. NO.0

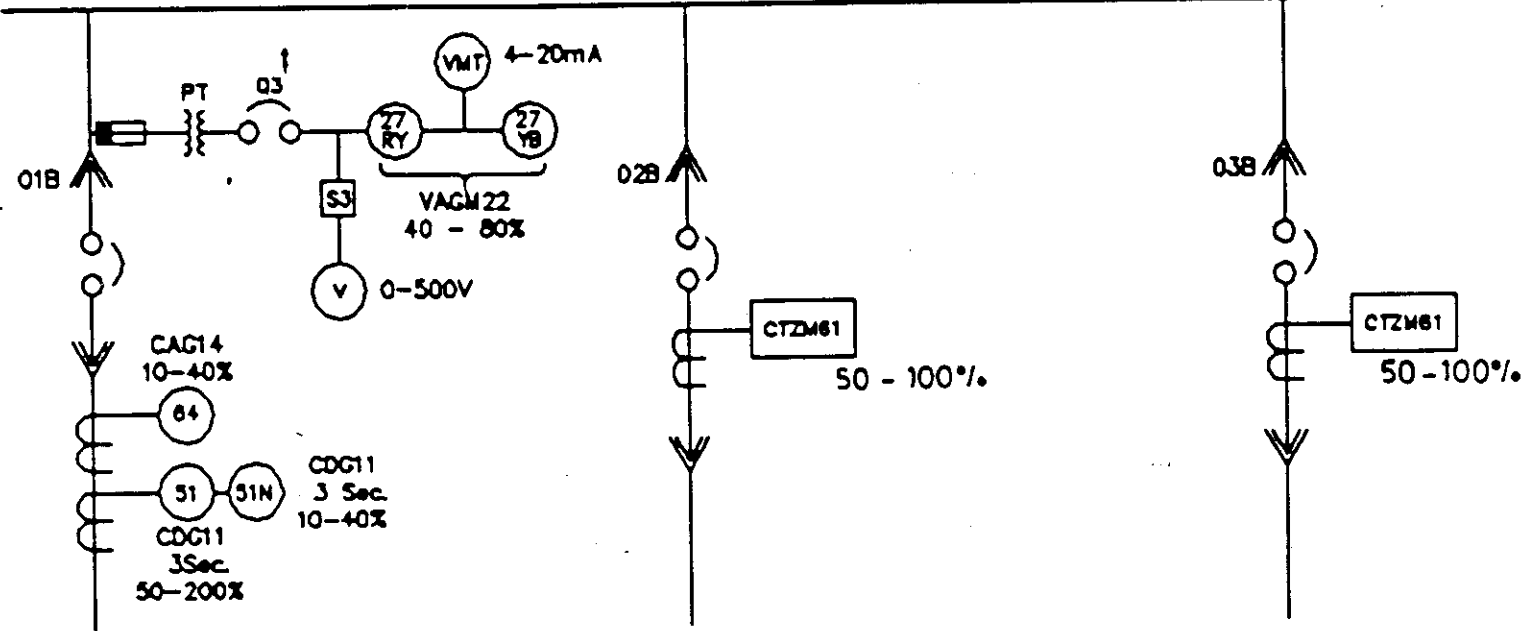
SHEET NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
REVN.	-	A	A	A																										

(8100/92)

EEO COMMON DRG. NO.: ASL14900103 SHT. NO. 1 OF 4

TITLE SINGLE LINE DIAGRAM FOR CUBICLE BOARD ( BUS L )	DRN.	dbn	O/NO.	ITEM NO.	NO.OFF	DEPT.
	CHD.	1490	1490	0103	-	SG&CC
THE ENGLISH ELECTRIC CO. OF INDIA LTD. MADRAS	DRG. NO.	ASL14900103		SHT.NO. 1 NO. OF SHTS. 4		

415V 3PH.4WIRE 50HZ. 2500AMPS. TPN BUSBARS



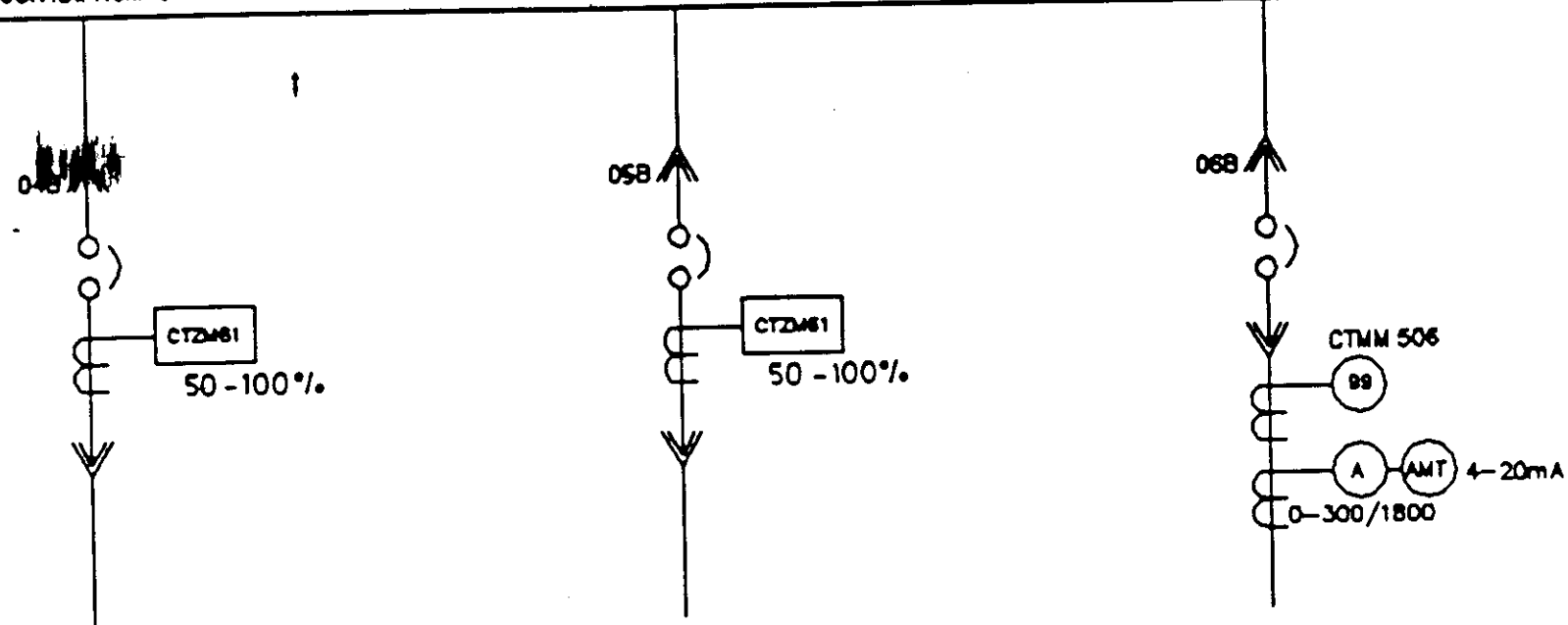
1	SERVICE DETAIL	INCOMER FROM 6.6KV SWGR CLIV BUS-C UNIT-1 CB NO.413	MCC-L1 CB NO.414 1-5242-MCC-L1	MCC-L2 CB NO.415 1-5242-MCC-L2
2	BREAKER RATING & TYPE	2500A,3037MWS+NEUT	1250A,812IMS+NEUT	1250A,812IMS+NEUT
3	PROTECTION CT RATIO, CLASS & BURDEN FOR RELAYS	2500/5,5P15,15VA	-	-
4	PROTECTION CT RATIO & CLASS FOR CTZM / EARTH FAULT	2500/5,CLPS $V_k > 224/242V$ 1 mag AT $V_k/2 < 13mA/18mA$ Rct $< 0.91/1.04 OHMS$	1250/5,CLPS $V_k > 23V$ 1 mag AT $V_k/2 < 25mA$ Rct $< 0.24 OHMS$	1250/5,CLPS $V_k > 23V$ 1 mag AT $V_k/2 < 25mA$ Rct $< 0.24 OHMS$
5	METERING CT RATIO, CLASS & BURDEN	-	-	-
6	PT RATIO, CLASS & BURDEN	415/110V,CL1/3,50VA	-	-
7	CABLE DETAILS	SIDE DUCT	7 * 1 * 630(AL)	3 * 1 * 1000(AL) 1 * 1 * 300(AL)NEUT

EE CO. COMMON DRG. NO: ASL14900103SHT. 2 OF 4

A  
ORIGINAL  
ISSUE  
DATE  
06-02-82

TITLE	DRWL	SM	O/NO.	ITEM NO.	NO.OFF	DEPT.
SINGLE LINE DIAGRAM FOR BUS - L SWGR	CHD	ASL	1490	0103	1	SG&CC
THE ENGLISH ELECTRIC CO. OF INDIA LTD.	DRG.No.	ASL14900103		SHT.No.	1	
MADRAS			No.OF SHTS.	3		

CONTD.FROM SHT.1.

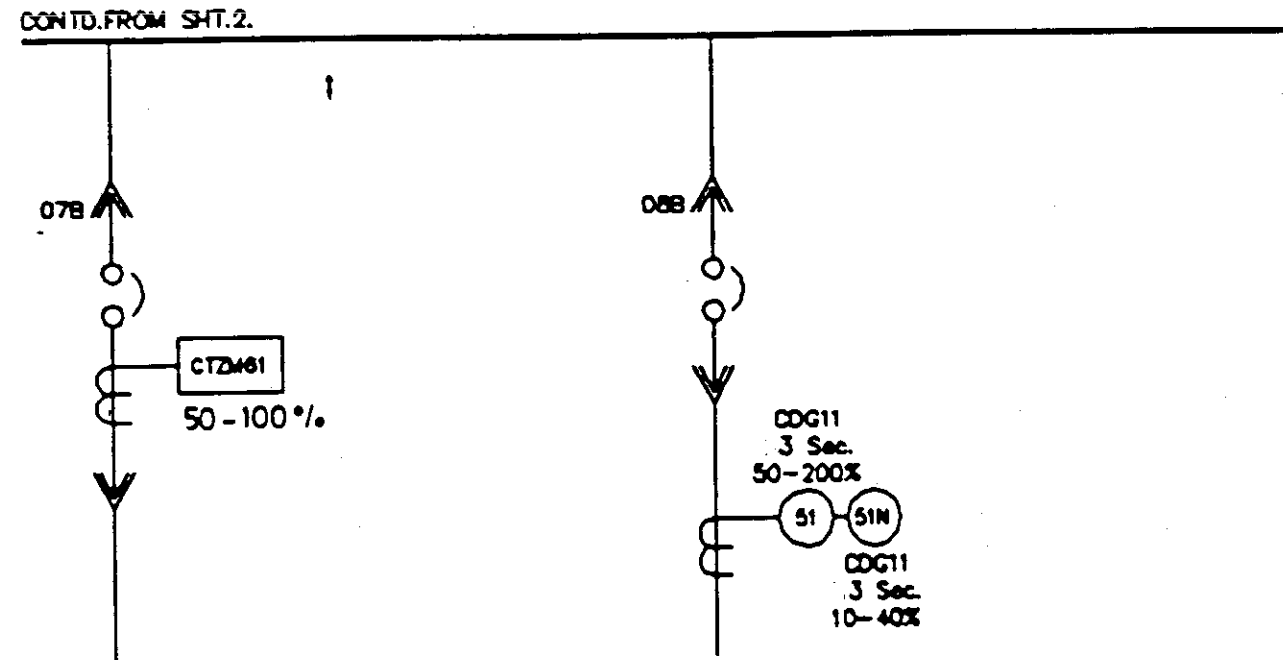


1	SERVICE DETAIL	SPARE CB NO.416	MCC-L3 CB NO.417 1-5242-MCC-L3	SPARE CB NO.418,160KW
2	BREAKER RATING & TYPE	1250A,812MS+NEUT	1250A,812MS+NEUT	630A,810MWS
3	PROTECTION CT RATIO , CLASS & BURDEN FOR RELAYS	-	-	300/5,5P10,15VA
4	PROTECTION CT RATIO & CLASS FOR CTM / EARTH FAULT	1250/5,CLPS <small>V<sub>k</sub> &gt; 23V I mag AT V<sub>k</sub>/2 &lt; 25mA Rct &lt; /0.24 OHMS</small>	1250/5,CLPS <small>V<sub>k</sub> &gt; 23V I mag AT V<sub>k</sub>/2 &lt; 25mA Rct &lt; /0.24 OHMS</small>	-
5	METERING CT RATIO , CLASS & BURDEN	-	-	300/5,1,10VA
6	PT RATIO , CLASS & BURDEN	-	-	-
7	CABLE DETAILS	7 * 1 * 1000(AL)	7 * 1 * 1000(AL)	3 * 1 * 400(AL)

EE CO. COMMON DRG. NO: ASL14900103 SHT. 3 OF 4

A  
ORIGINAL  
DATE  
06-02-92

TITLE	SINGLE LINE DIAGRAM FOR BUS - L SWGR	DRN CRD.	SM WJ	O/NO. 1490	ITEM NO. 0103	NO.OFF 1	DEPT. SG&CG.
THE ENGLISH ELECTRIC CO. OF INDIA LTD.	MADRAS	DRG.No.	ASL14900103	SHT.No.	2	No.OF SHTS.	3



1	SERVICE DETAIL	LIGHTING TRANSFORMER CB NO. 419 1-5312-LT1	THE FEEDER FROM 415V TRANSFER BUS-J CB NO. 424
2	BREAKER RATING & TYPE	630A, 610MS+NEUT	2500A, 3037MWS+NEUT
3	PROTECTION CT RATIO, CLASS & BURDEN FOR RELAYS	-	2500/3, 5P13, 15VA
4	PROTECTION CT RATIO & CLASS FOR CT2M / EARTH FAULT	600/5, CLPS <small><math>V_k &gt; 10V</math> 1 meg AT <math>V_k/2 &lt; 25mA</math> Rct <math>&lt; /0.18</math> OHMS</small>	-
5	METERING CT RATIO, CLASS & BURDEN	-	-
6	PT RATIO, CLASS & BURDEN	-	-
7	CABLE DETAILS	4 * 1 * 400(AL)	TOP DUCT

EE CO. COMMON DRG. NO: ASL14900103 SHT. 4 OF 4

A ORIGINAL SCALE	DATE 06-02-92	TITLE	DRW.	SM	O/NO.	ITEM NO.	NO. OF	DEPT.
		SINGLE LINE DIAGRAM FOR BUS - L SWGR	CRD.	1490	0103	1	SCMCC	
		THE ENGLISH ELECTRIC CO. OF INDIA LTD. MADRAS	DRG. No.		ASL14900103	SHT. No. 3 No. OF SHTS. 3		