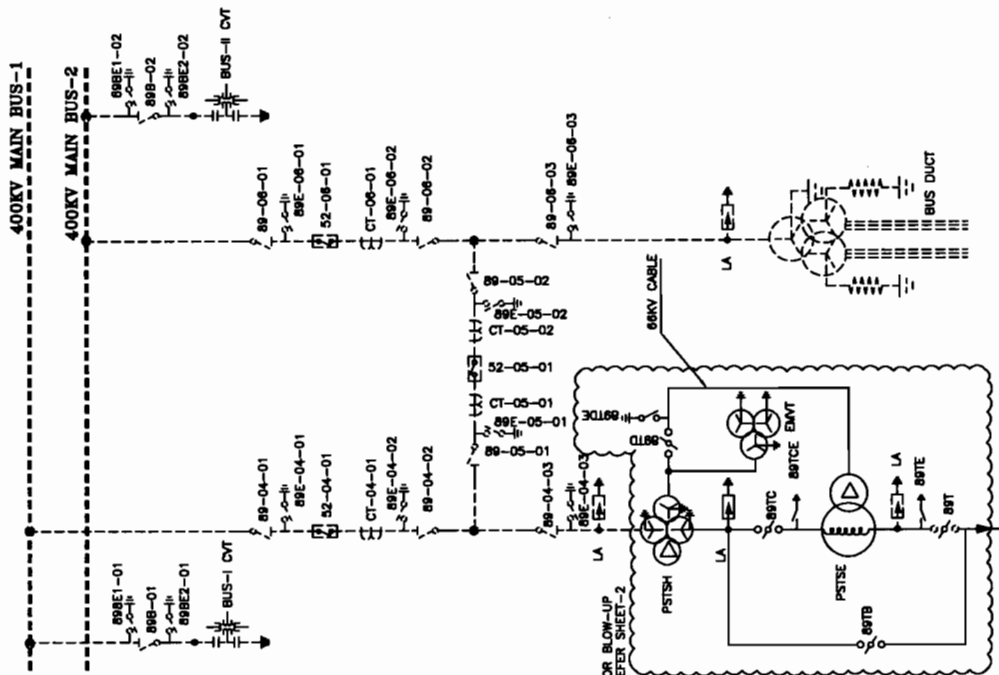


EXTENSION OF 220KV EXISTING SWITCHYARD

**BAY-16
NEW EXTENSION BAY**










40KA,1Sec, 220KV MAIN BUS-1
40KA,1Sec, 220KV MAIN BUS-2
40KA,1Sec, 220KV TRANSFER BUS



QUESTION

	IN PRESENT SCOPE	EXISTING
1. <u>General</u>		
2. <u>Specific</u>		
3. <u>Other</u>		

RECAP:-





























































































	- CURRENT TRANSFORMER		- SHUNT TRANSFORMER
	- DOUBLE BREAK MOTOR OPERATED ISOLATOR		- SERIES TRANSFORMER
	- EARTH SWITCH		
	- CIRCUIT BREAKER		- CAPACITIVE VOLTAGE TRANSFORMER
	- LIGHTNING ARRESTER		- VOLTAGE TRANSFORMER

FILE OF QUANTITY

S.L	ITEM DESCRIPTION	EQUIPMENT DESIGNATION	QTY.
1.	PHASE SHIFTING SHUNT TRANSFORMER 315/315/105/105MVA/Y/Y/D, 400/220/55/33KV	PSTSH	01
2.	PHASE SHIFTING SERIES TRANSFORMER 105/105 MVA/OPEN D/D 35/55KV	PSTSE	01
3.	245KV DOUBLE BREAK ISOLATOR WITHOUT EARTH SWITCH (3 PHASE)	89TB	01
4.	88KV DOUBLE BREAK ISOLATOR WITH ONE EARTH SWITCH (3 PHASE) FOR CONTROL WINDING	89TD	01
5.	245KV DOUBLE BREAK STAGGARD TYPE ISOLATOR WITH ONE EARTH SWITCH (3 PHASE)	89TC	01
6.	198KV LIGHTNING ARRESTER	LA	03
7.	55KV SINGLE PHASE VOLTAGE TRANSFORMER	EMVT	03

FINDING INSULATION LEVELS

S.I.	ITEM DESCRIPTION	400KV	220KV
1.	LIGHTNING IMPULSE WITHSTAND VOLTAGE	1425KVP	1050KVP
2.	POWER FREQUENCY WITHSTAND VOLTAGE	630KV	460KV
3.	SWITCHING IMPULSE WITHSTAND VOLTAGE	1050KV	-

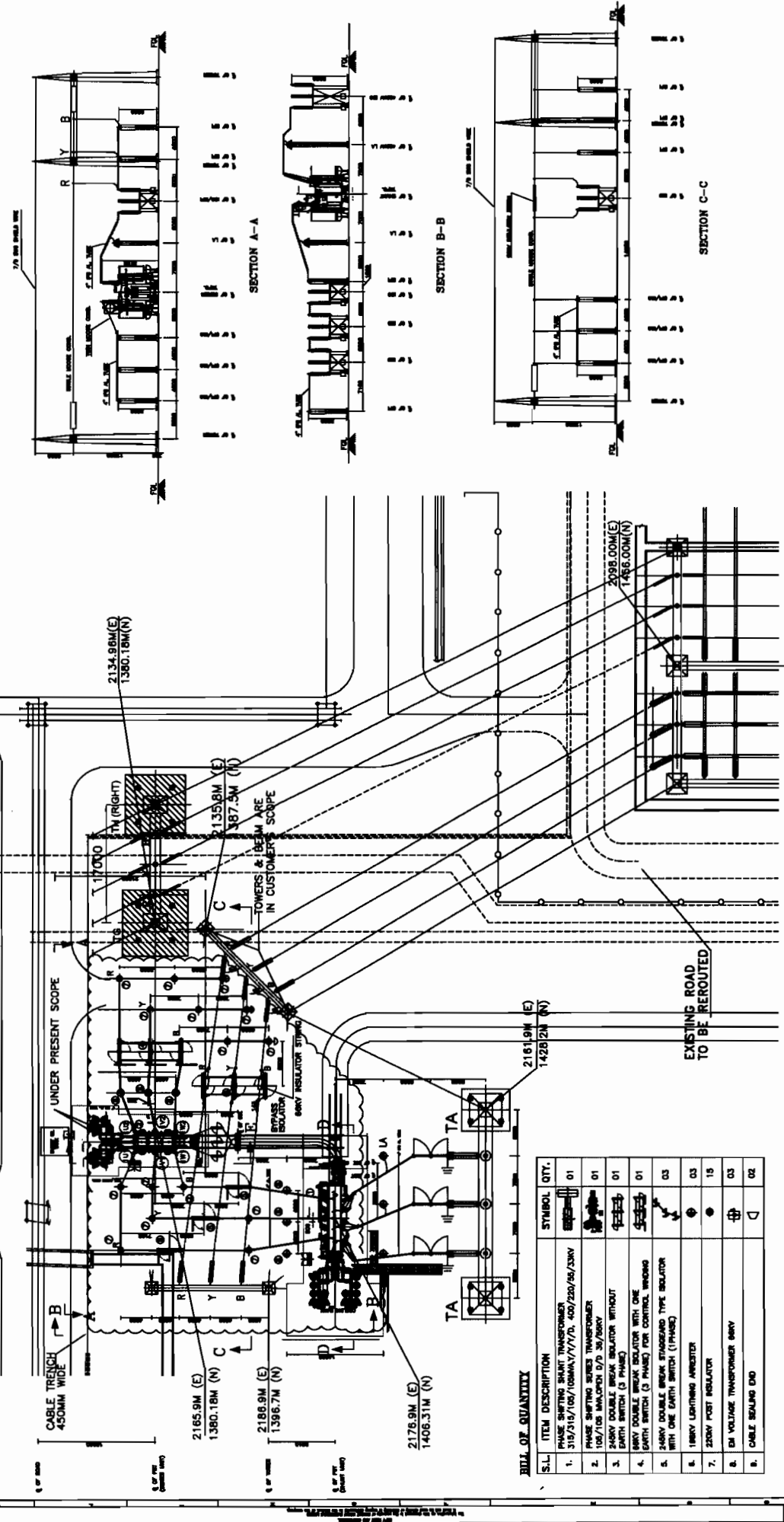
REFERENCE DRG.	GID-100-EL-XJ-2012 REV-02									
ADDITIONAL INFORMATION W.O.No. _____	BHUAT HEAVY ELECTRICALS LTD. ANDHRA PRADESH POWER GENERATION CORPORATION LTD.									
STATUS OF DRAWING	NAME OF CUSTOMER PHASE SHIFTING TRANSFORMER FOR KUTIMADURU THERMAL POWER STATION STAGE-IV, UNIT # XL (135000KV)									
DISTRIBUTION OF PRINTS	NAME OF PROJECT									
	 									
										
	BHUAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION									
REV.	DATE	ALTERED	CHECKED	DATE	APPROVED					
ZONE										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										










REV.	DATE	ALTERED ORIGINATED	REV.	DATE	ALTERED APPROVED	REV.	DATE	ALTERED APPROVED	REV.	DATE	ALTERED APPROVED
ZONE			ZONE			ZONE			ZONE		

**SINGLE LINE DIAGRAM FOR
PHASE SHIFTING TRANSFORMER**

515171. 02. /DRAWING NO.
TB-3-327-316-001

DATE/REV.	00
-----------	----



BILL OF QUANTITY		ITEM DESCRIPTION	SYMBOL	QTY.
1.	1	PHASE SHIFTING SHUNT TRANSFORMER 315/315/150/105MA/177V, 400/220/56/33KV		01
		PHASE SHIFTING SERIES TRANSFORMER 100/100 MALCON 0/0 30/60KV		01
		24KV DOUBLE BREAK ISOLATOR WITHOUT EARTH SWITCH (3 PHASE)		01
		8KV DOUBLE BREAK ISOLATOR WITH ONE EARTH SWITCH (3 PHASE) FOR CONTROL WINDING		01
		24KV DOUBLE BREAK STAGGERED TYPE ISOLATOR WITH ONE EARTH SWITCH (1 PHASE)		03
		11KV LIGHTNING ARRESTER		03
		220KV POST ISOLATOR		15
		6A VOLTAGE TRANSFORMER 6KV		03
		CABLE SEALING END		02

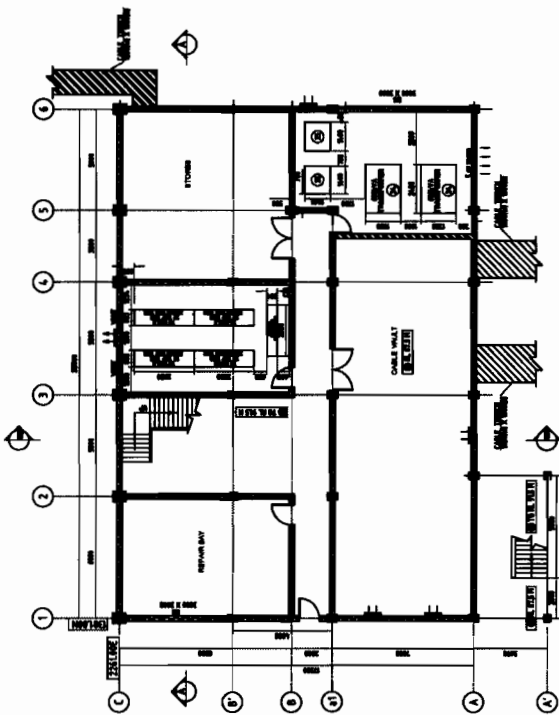
MINIMUM CLEARANCE TABLE (AS PER EC 7/2)	220KV/66KV
PHASE TO PHASE (PP)	2100 630
PHASE TO EARTH (PE)	2100 630
SECTION CLEARANCE (SC)	5000 3500
GROUND CLEARANCE (AS PER I.R.I.E.)	5000 4000
TO NEAREST PART NOT AT EARTH POTENTIAL OF AN INSULATOR SUPPORTING LINE CONDUCTOR	2500 2500



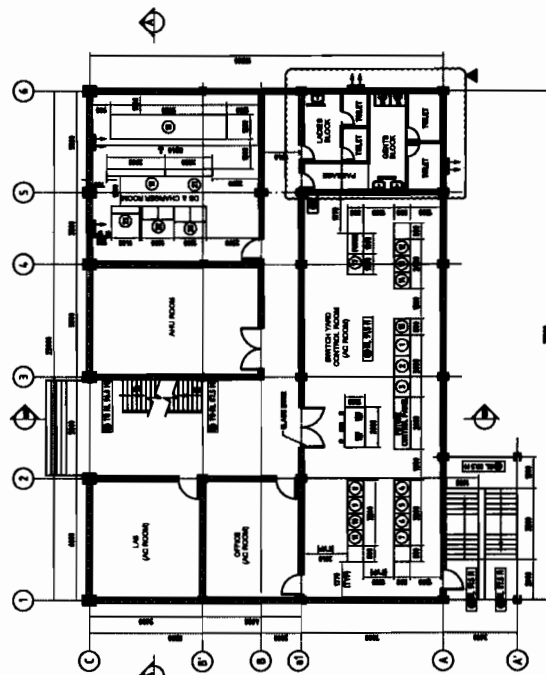
SECTION D-D

SECTION E-E

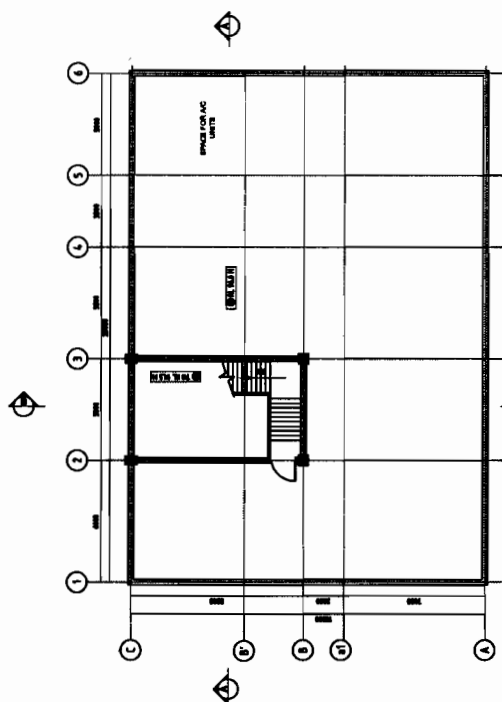
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PLAN AT RL 87.5 M LEVEL



PLAN AT RL 91.5 M LEVEL



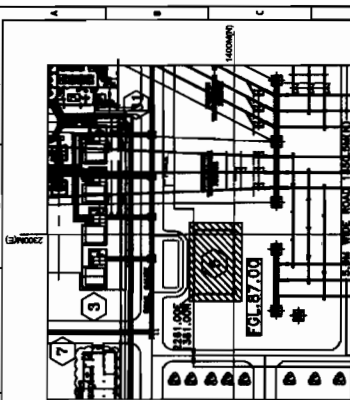
PLAN AT RL 98.0 M LEVEL

[illegible]

EQUIPMENT DETAILS:

[illegible]

TELEVISIONS



KEY PLAN

NOTES:

1. REFER DIM. NO. 60-94-42-37-941 FOR THE LOCATION OF SWITCH AND CONTROL BUILDING.
2. SWITCH AND CONTROL BUILDING LEVEL IS 8L 17.4M. THE BUILDING PREPARED FLOOR LEVEL IS 8L 17.3M.
3. DIMENSION ARE IN METERS AND ELEVATION ARE IN M UNLESS OTHERWISE NOTED.
4. ALL ROOF ARE TO BE CONSTRUCTED WITH UNBURNED INSULATION.
5. ALL ROOF ARE TO BE COVERED WITH PALE COLOR.
6. PANEL DIMENSION SHOULD BE TENTATIVE WILL BE FINALIZED AFTER VENDOR SELECTION.
7. PREP PHOTO SHOULD BE PROVIDED FOR CABLE WALK.

ENGG. REF. DWGS:

1. PLOT PLAN
2. LAYOUT OF VENTILATION FANS IN LOBBY

FLA301146-37-24-04-00
FLA301146-37-24-04-00

DO NOT SCALE THE DRAWING

DO NOT SCALE THE DRAWING



ANDHRA PRADESH POWER
GENERATION CORPORATION LTD.

PROJECT
KOTHAGUDEM THERMAL POWER STATION
STAGE-VI. UNIT # XI. (1x500MW)

ASPE - AMERICAN SOCIETY OF PROFESSIONAL ENGINEERS

**DESEIN
CONSULTING ENGINE
NEW DELHI - IN**

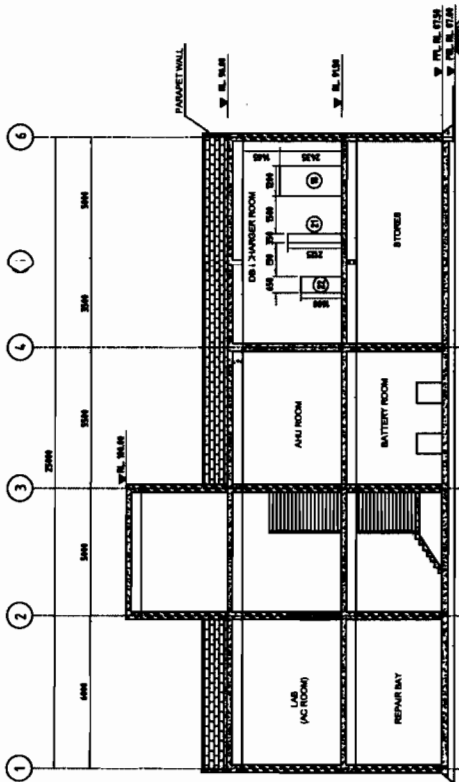


ENERGY
BGR ENERGY SYSTEMS LTD
CHENNAI, INDIA

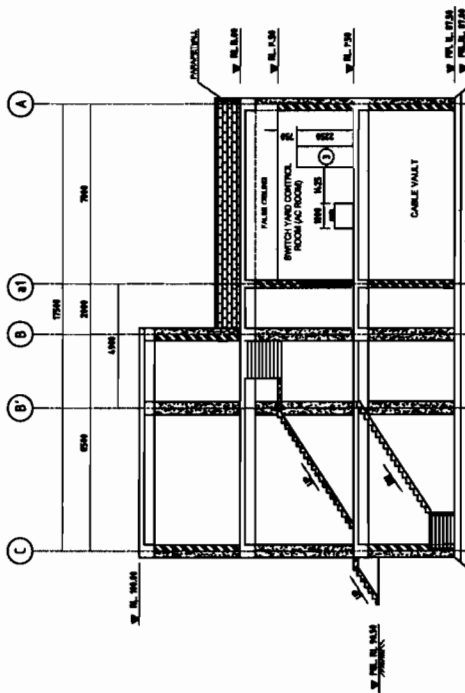
DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
DAY / MO	HR	DAY / MO	HR	DAY / MO	HR	DAY / MO	HR
PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE
APPROV.	APPROV.	APPROV.	APPROV.	APPROV.	APPROV.	APPROV.	APPROV.
TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME
				SCALE	TIME	DATE	TIME
				DATE	TIME	DATE	TIME
<p>1. TITLE: EQUIPMENT LAYOUT FOR 400 KV SWITCHYARD</p> <p>2. CONTROL BUILDING</p> <p>3. DRAWING NO. 100-EL-XE-3061</p> <p>4. SHEET NO. 5</p>							

100 KV SWITCHYARD
CONTROL BUILDING

1



SECTION A-A



SECTION B-B

ZONE	REV	DESCRIPTION	DATE	CHKD	ELEC	APPROVED
	5	REVISED AS PER DESIGNER'S COMMENTS LTR NO. 4-10/04-VC-4-1000/214 DT 24.03.09 & CO ORDINATES REVISED BY ARCHITECTURAL CHARGES	23.03.09			
	4	REVISED AS PER DESIGNER'S COMMENTS LTR NO. 4-10/04-VC-4-1000/214 DT 24.03.09	15.03.09			
	3	REVISED AS PER DESIGNER'S COMMENTS LTR NO. 4-10/04-VC-4-1000/214 DT 24.03.09 & REVISED PTD DISCUSSIONS AT 1TH COORDINATES MEETING - PLOT 50000A, HYDROGRAPHIC PLOT 12.00	09.01.09			
	2	REVISED AS PER DESIGNER'S COMMENTS LTR NO. 4-10/04-VC-4-1000/214 DT 23.08.08	23.08.08			
	1	REVISED AS PER DESIGNER'S COMMENTS LTR NO. 4-10/04-VC-4-1000/214 DT 19.04.08	24.09.08			
	0	ISSUE FOR APPROVAL	20.06.08			

DO NOT SCALE THE DRAWING



ANDHRA PRADESH POWER
GENERATION CORPORATION LTD.

KOTHAGUDEM THERMAL POWER STATION
STAGE-VI, UNIT # XI, (1x500MW)

OVERSEAS COMMUNITARIAN

**DESEIN
CONSULTING ENGINEERS
NEW DELHI - INDIA**

RESEARCH (continued)



BGR ENERGY SYSTEMS LTD
CHENNAI, INDIA

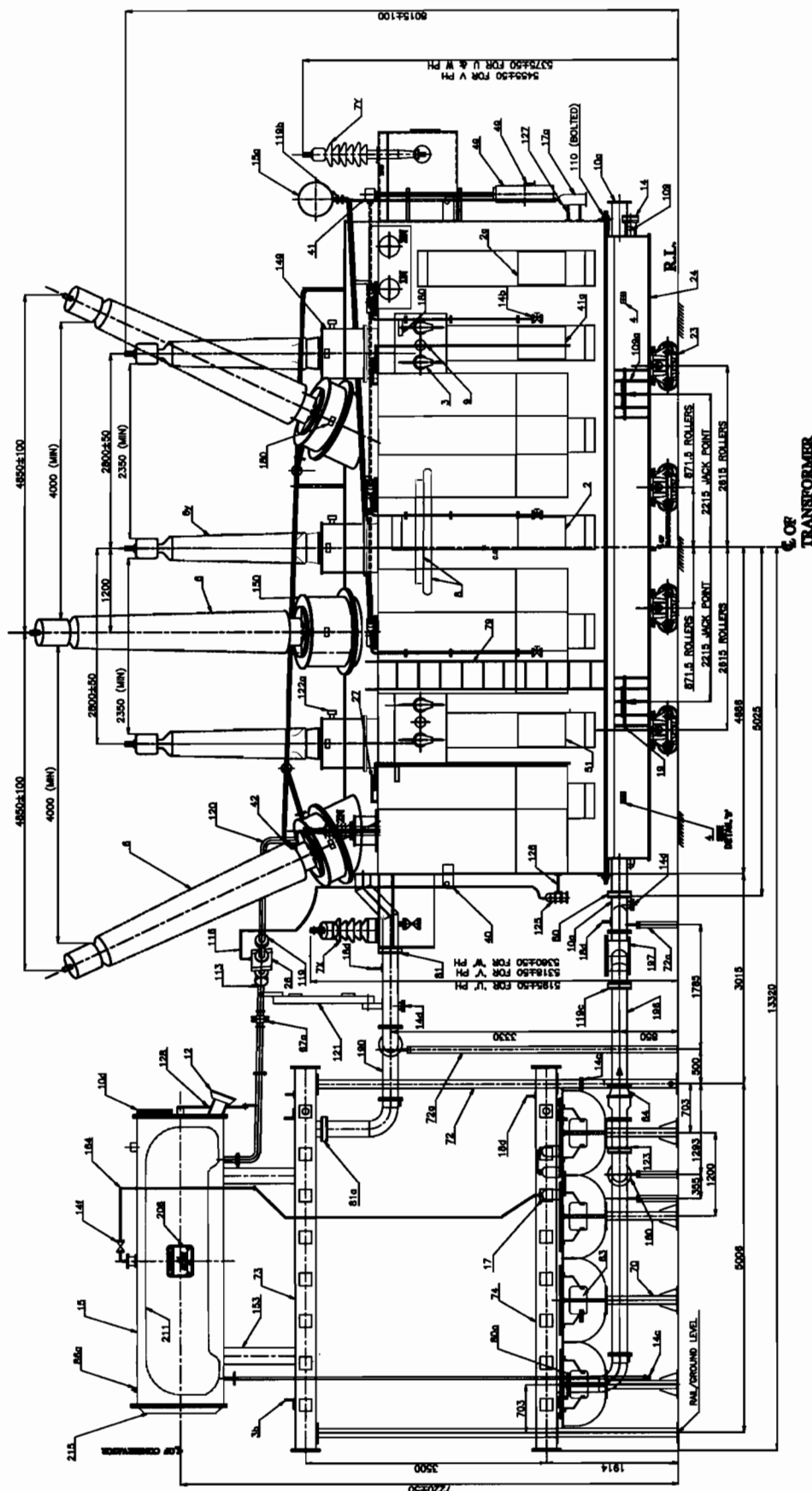
TITLE	EQUIPMENT LAYOUT FOR 400 KY SWITCHYARD CONTROL BUILDING	GROUP NO.		SHEET No. 1 OF 1
DATE		DRAWN BY	R.A.	
CHECKED BY		SCALE	NAT	
DESIGNED BY				
APPROVED BY				
PAGE				
NO.				
A1				
B				

10

REF.DRG.NO.

DATE _____

INVENTORY NO.

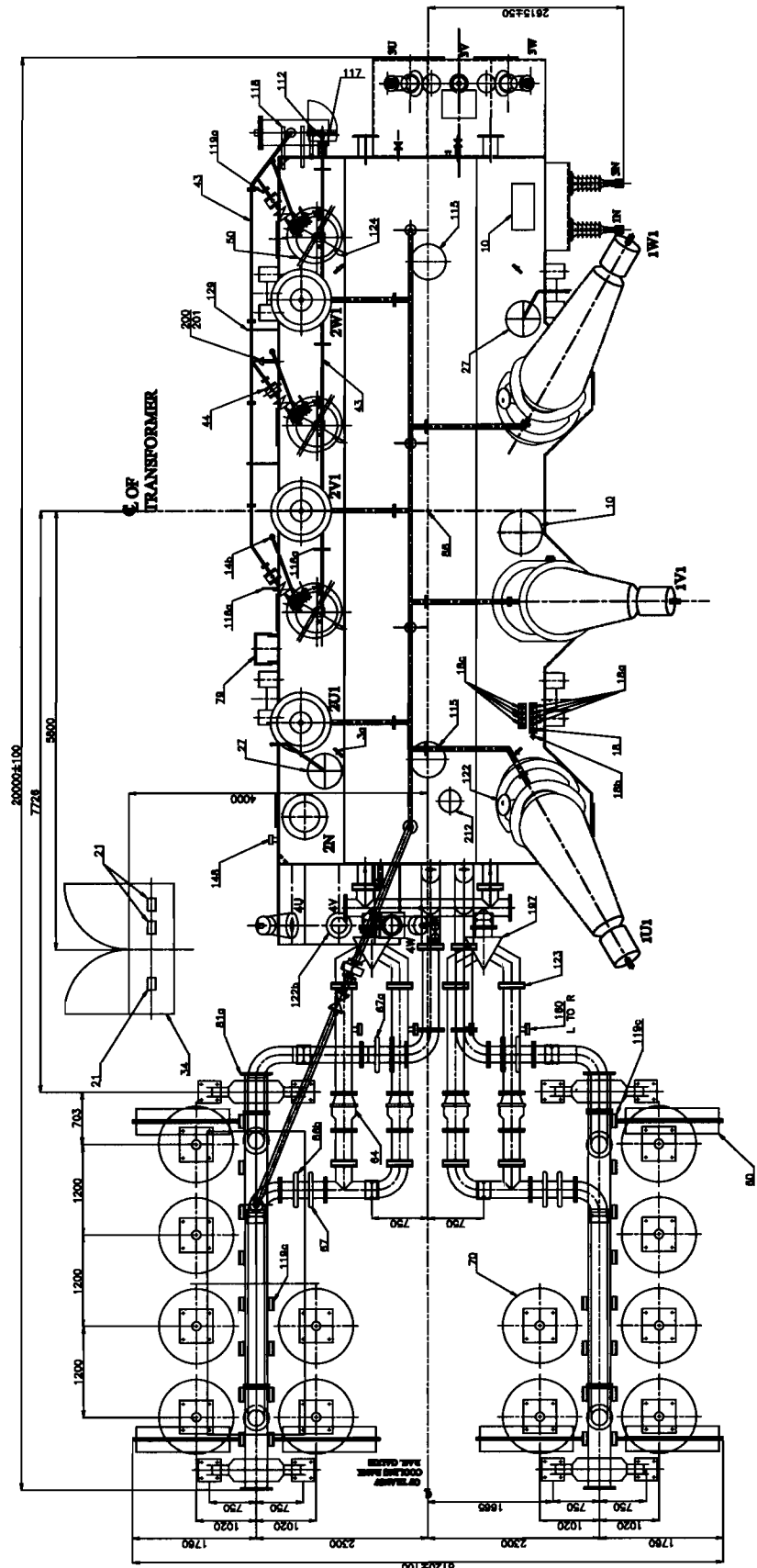
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9

REF.DRG.NO.

SIGN. DATE

INVENTORY NO.

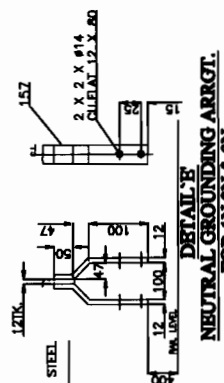
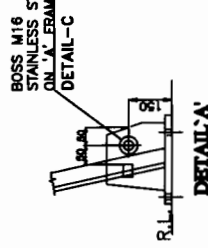
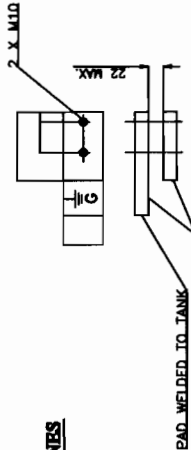
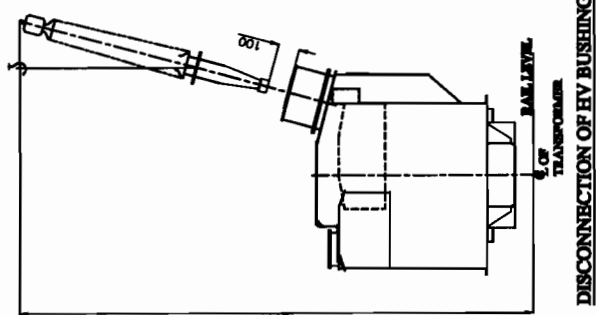
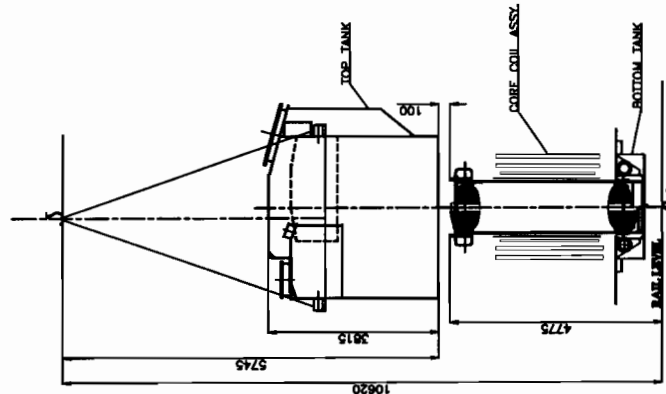
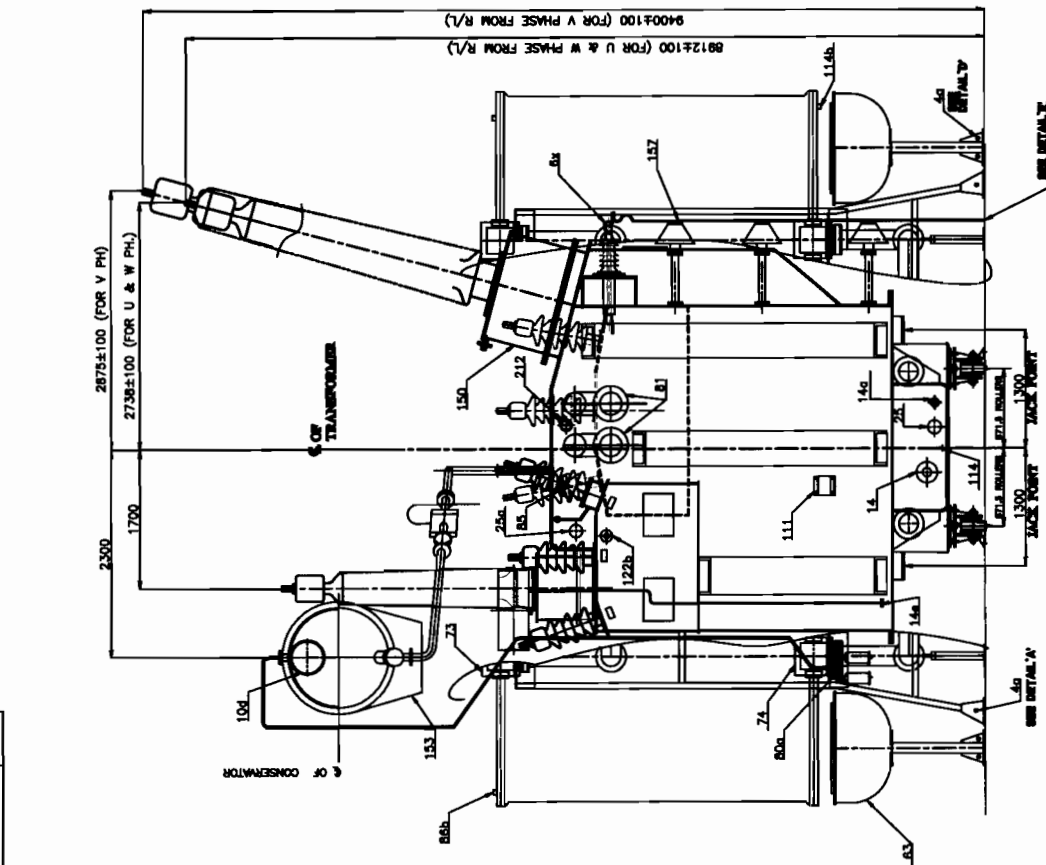
[illegible]

10

REF.DRG.NO.

SIGN. DATE

INVENTORY NO.

[illegible]

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REF. DRG. NO.

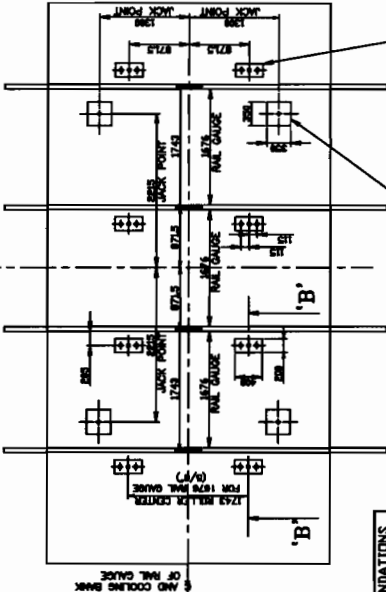
SIGN. DATE

INVENTORY NO.

M-KIOSK CONCRETE FOUNDATION
TO BE SUITABLE FOR
1000 KG LOAD (605 X 1725)

ITEM	BOLT SIZE	QTY.	DESCRIPTION	NO. OF FOUNDATION	COMP. PLATE SIZE
001	M-20	28	RADIATOR SUPPORT MARKED THIS.	8	300 X 300
002	M-20	48	FAN SUPPORT MARKED THIS.	12	450 X 450
003	M-20	16	PIPE SUPPORT MARKED THIS.	8	180 X 250
004	M-24	24	ROLLER SUPPORTS MARKED THIS.	8	200 X 400
005	M-12	4	COOLER CONTROL CABINET MARKED THIS.	1	605 X 1725

IV SIDE
OF TRANSFORMER
& RAIL GAUGE



4- CONCRETE FOUNDATION
JACKS EACH TO BE SUITABLE
FOR 80 TONNES LOAD

004
8 X 3 M24 FOUNDATION BOLTS FOR
ROLLER SUPPORTS EACH TO BE SUITABLE
FOR 17 TONNES SHEARING LOAD

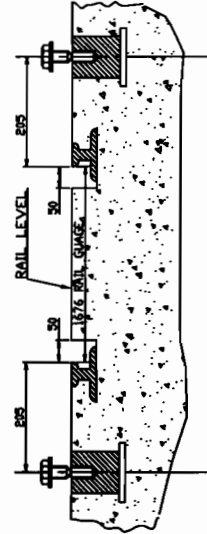
HV SIDE

003
8-CONCRETE FOUNDATIONS
EACH TO BE SUITABLE FOR
500 KGS. LOAD.

001
8-CONCRETE FOUNDATIONS EACH TO BE
SUITABLE FOR 800 KGS. LOAD.

NOTES:-

- 1- FOUNDATION BOLTS AND HARDWARES WILL BE SUPPLIED BY B.H.E.L. AND THOSE EXPOSED TO WEATHER SHALL BE HOT DIP GALVANISED.
- 2- ALL CONCRETE FOUNDATIONS SHOULD BE IN LEVEL AS SHOWN IN DETAILS OF FOUNDATION BOLT AND SECTION 'B-B'.
- 3- CABLES FOR MAIN TRANSFORMERS AND ITS ACCESSORIES UP TO COOLER CONTROL CABINET ONLY SHALL BE SUPPLIED BY BHEL.
- 4- THE DRAWING GIVES THE SIZE AND LOCATING DIMENSIONS OF THE LOAD BEARING PADS PROVIDED WITH TRANSFORMER AND ACCESSORIES SUITABLE CONCRETE SLAB SIZE TO RECIEVE THESE PADS TO BE DECIDED BY CUSTOMER'S CIVIL ENGINEER.
- 5- POCKETS OF SUITABLE SIZE MAY BE LEFT WHILE CASTING FOUNDATION FOR EMBEDDING FEMALE PART OF FOUNDATION BOLT (TO BE SUPPLIED BY BHEL) AT THE TIME OF FINAL ERECTION.



DETAIL OF FOUNDATION BOLT

REFER TABLE FOR BOLT SIZE

SECTION B-B

REV. DATE	ALT.	REVISION	NO. OF TRANSFORMERS	PROJECT	DATE	SIGN.	DATE
01	001	01	1	PROJECT	01/01/00	01/01/00	01/01/00
02	002	02	2	PROJECT	02/02/00	02/02/00	02/02/00
03	003	03	3	PROJECT	03/03/00	03/03/00	03/03/00
04	004	04	4	PROJECT	04/04/00	04/04/00	04/04/00
05	005	05	5	PROJECT	05/05/00	05/05/00	05/05/00
06	006	06	6	PROJECT	06/06/00	06/06/00	06/06/00
07	007	07	7	PROJECT	07/07/00	07/07/00	07/07/00
08	008	08	8	PROJECT	08/08/00	08/08/00	08/08/00
09	009	09	9	PROJECT	09/09/00	09/09/00	09/09/00
10	010	10	10	PROJECT	10/10/00	10/10/00	10/10/00
11	011	11	11	PROJECT	11/11/00	11/11/00	11/11/00
12	012	12	12	PROJECT	12/12/00	12/12/00	12/12/00
13	013	13	13	PROJECT	13/13/00	13/13/00	13/13/00
14	014	14	14	PROJECT	14/14/00	14/14/00	14/14/00
15	015	15	15	PROJECT	15/15/00	15/15/00	15/15/00
16	016	16	16	PROJECT	16/16/00	16/16/00	16/16/00
17	017	17	17	PROJECT	17/17/00	17/17/00	17/17/00
18	018	18	18	PROJECT	18/18/00	18/18/00	18/18/00
19	019	19	19	PROJECT	19/19/00	19/19/00	19/19/00
20	020	20	20	PROJECT	20/20/00	20/20/00	20/20/00
21	021	21	21	PROJECT	21/21/00	21/21/00	21/21/00
22	022	22	22	PROJECT	22/22/00	22/22/00	22/22/00
23	023	23	23	PROJECT	23/23/00	23/23/00	23/23/00
24	024	24	24	PROJECT	24/24/00	24/24/00	24/24/00
25	025	25	25	PROJECT	25/25/00	25/25/00	25/25/00
26	026	26	26	PROJECT	26/26/00	26/26/00	26/26/00
27	027	27	27	PROJECT	27/27/00	27/27/00	27/27/00
28	028	28	28	PROJECT	28/28/00	28/28/00	28/28/00
29	029	29	29	PROJECT	29/29/00	29/29/00	29/29/00
30	030	30	30	PROJECT	30/30/00	30/30/00	30/30/00
31	031	31	31	PROJECT	31/31/00	31/31/00	31/31/00
32	032	32	32	PROJECT	32/32/00	32/32/00	32/32/00
33	033	33	33	PROJECT	33/33/00	33/33/00	33/33/00
34	034	34	34	PROJECT	34/34/00	34/34/00	34/34/00
35	035	35	35	PROJECT	35/35/00	35/35/00	35/35/00
36	036	36	36	PROJECT	36/36/00	36/36/00	36/36/00
37	037	37	37	PROJECT	37/37/00	37/37/00	37/37/00
38	038	38	38	PROJECT	38/38/00	38/38/00	38/38/00
39	039	39	39	PROJECT	39/39/00	39/39/00	39/39/00
40	040	40	40	PROJECT	40/40/00	40/40/00	40/40/00
41	041	41	41	PROJECT	41/41/00	41/41/00	41/41/00
42	042	42	42	PROJECT	42/42/00	42/42/00	42/42/00
43	043	43	43	PROJECT	43/43/00	43/43/00	43/43/00
44	044	44	44	PROJECT	44/44/00	44/44/00	44/44/00
45	045	45	45	PROJECT	45/45/00	45/45/00	45/45/00
46	046	46	46	PROJECT	46/46/00	46/46/00	46/46/00
47	047	47	47	PROJECT	47/47/00	47/47/00	47/47/00
48	048	48	48	PROJECT	48/48/00	48/48/00	48/48/00
49	049	49	49	PROJECT	49/49/00	49/49/00	49/49/00
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51	051	51	51	PROJECT	51/51/00	51/51/00	51/51/00
52	052	52	52	PROJECT	52/52/00	52/52/00	52/52/00
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58	058	58	58	PROJECT	58/58/00	58/58/00	58/58/00
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67	067	67	67	PROJECT	67/67/00	67/67/00	67/67/00
68	068	68	68	PROJECT	68/68/00	68/68/00	68/68/00
69	069	69	69	PROJECT	69/69/00	69/69/00	69/69/00
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71	071	71	71	PROJECT	71/71/00	71/71/00	71/71/00
72	072	72	72	PROJECT	72/72/00	72/72/00	72/72/00
73	073	73	73	PROJECT	73/73/00	73/73/00	73/73/00
74	074	74	74	PROJECT	74/74/00	74/74/00	74/74/00
75	075	75	75	PROJECT	75/75/00	75/75/00	75/75/00
76	076	76	76	PROJECT	76/76/00	76/76/00	76/76/00
77	077	77	77	PROJECT	77/77/00	77/77/00	77/77/00
78	078	78	78	PROJECT	78/78/00	78/78/00	78/78/00
79	079	79	79	PROJECT	79/79/00	79/79/00	79/79/00
80	080	80	80	PROJECT	80/80/00	80/80/00	80/80/00
81	081	81	81	PROJECT	81/81/00	81/81/00	81/81/00
82	082	82	82	PROJECT	82/82/00	82/82/00	82/82/00
83	083	83	83	PROJECT	83/83/00	83/83/00	83/83/00
84	084	84	84	PROJECT	84/84/00	84/84/00	84/84/00
85	085	85	85	PROJECT	85/85/00	85/85/00	85/85/00
86	086	86	86	PROJECT	86/86/00	86/86/00	86/86/00
87	087	87	87	PROJECT	87/87/00	87/87/00	87/87/00
88	088	88	88	PROJECT	88/88/00	88/88/00	88/88/00
89	089	89	89	PROJECT	89/89/00	89/89/00	89/89/00
90	090	90	90	PROJECT	90/90/00	90/90/00	90/90/00
91	091	91	91	PROJECT	91/91/00	91/91/00	91/91/00
92	092	92	92	PROJECT	92/92/00	92/92/00	92/92/00
93	093	93	93	PROJECT	93/93/00	93/93/00	93/93/00
94	094	94	94	PROJECT	94/94/00	94/94/00	94/94/00
95	095	95	95	PROJECT	95/95/00	95/95/00	95/95/00
96	096	96	96	PROJECT	96/96/00	96/96/00	96/96/00
97	097	97	97	PROJECT	97/97/00	97/97/00	97/97/00
98	098	98	98	PROJECT	98/98/00	98/98/00	98/98/00
99	099	99	99	PROJECT	99/99/00	99/99/00	99/99/00
100	100	100	100	PROJECT	100/100/00	100/100/00	100/100/00

[illegible]

1. CUSTOMER IS REQUESTED TO QUOTE MAKER'S SL. NO., ELEC. - SPEC. NO., RATING & DIAGRAM PLATE DRG. NO., WHILE REFERRING ANY PROBLEM TO BHEL FOR EASY IDENTIFICATION.
2. INSTRUCTION FOR R & D PLATE REFER DRG. 3 499 00 00062.

(ALL DIMENSIONS ARE IN MM)

IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY HARMFUL TO THE REPUTATION OF THE COMPANY.

ELVO

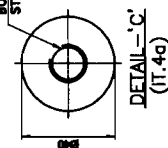
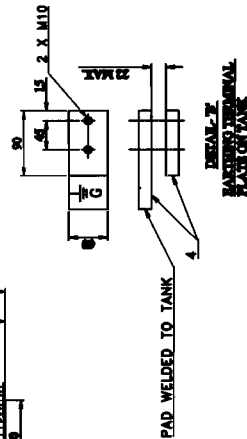
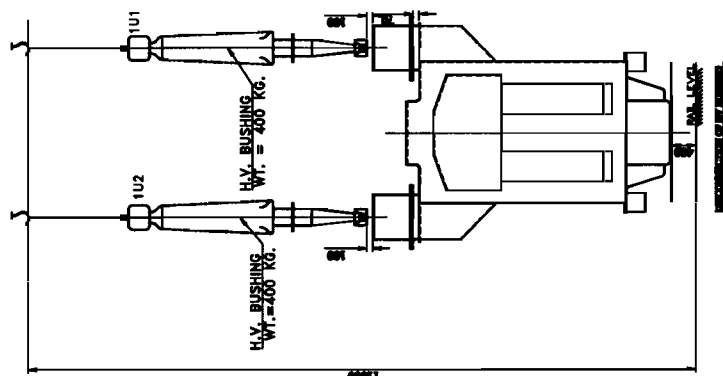
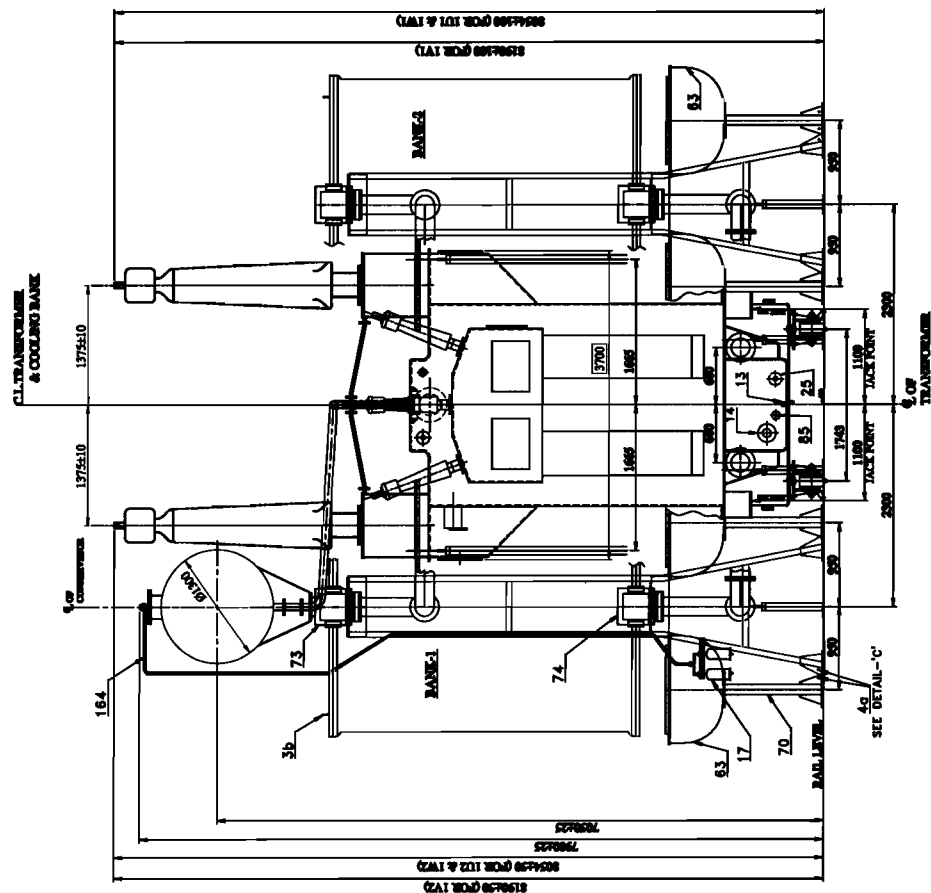
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THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF

REF ID: A66000	DATE
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IDENTIFICATION NO.

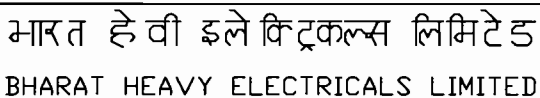
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DETAIL - 'C'
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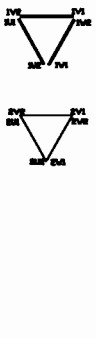
**BOSS M16
STAINLESS STEEL**





**• टर्मिनल टैकी टांक के अग
TERMINALS ON TANK COVER**

RATING PLATE & SCHEMATIC DIAGRAM



PRIMARY LINE (HV) TERMINALS					SECONDARY LINE(LV) TERMINALS				
BETWEEN TERMINAL	LINE VOLTAGE CURRENT (AMPS)				BETWEEN TERMINAL	LINE VOLTAGE CURRENT (AMPS)			
	KV	INCH SERVA	INCH SERVA	INCH SERVA		KV	INCH SERVA	INCH SERVA	INCH SERVA
NO-USE NO-USE NO-USE	35	600	800	1000	35	64.5	86.7	108.2	

-

MADE IN INDIA

TABLE - I

APPROVED FOR RELEASE
MATERIAL

7. RATING AND DIAGRAM PLATE TO BE SUITABLY PACKED IN POLYTHENE COVERS 500 MICRONS THK TO AVOID DAMAGE DURING TRANSPORTATION

PACKING

DR AMENDING
6. DRAWING NO. 3 459 19 00124 REVISION NO. 01 V.L. NO.-

5. DRILLING IS TO BE DONE IN PLATE BEFORE ENGRAVING

IV. THE PLATE SHOULD WITHSTAND OUT-DOOR DURABILITY TESTS.

ALL LINES AND FIGURES, DIVIDING LINES, BORDER LINES AND DIAGRAM ETC. TO BE BLACK.
A. BACKGROUND TO BE SATIN SILVER

1. PLATES ARE TO BE MANUFACTURED BY ETCHING PROCESS

ALL SIZE OF LETTERS AND NUMERALS SHALL BE AS PER TABLE-1 BELOW.

1. STYLE AND DESIGN OF ENGLISH LETTERS SHALL BE AS PER STANDARD AA 0421403.

1. STYLE AND DESIGN OF HINDI LETTERS SHALL BE AS PER STANDARD AA 0491402.

2. LETTERS AND NUMERALS

AND IN QUANTITY, RATING PARTICULARS TO BE
ENGRAVED OR MACHINE STAMPED AND FILLED IN

NOTES TO DIAGRAM PLATE MANUFACTURER

1. COLS. WHICH ARE NOT APPLICABLE ARE TO BE LEFT BLANK

1. LOSSES ON ROAD PLATE AFTER THE JOB IS TESTED
NOTES TO DRAUGHTSMAN

NOTES TO SHOP

[illegible]

(ALL DIMENSIONS ARE	
9	10
