

B100-91C-55C-3-BL ON GRD

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MM)

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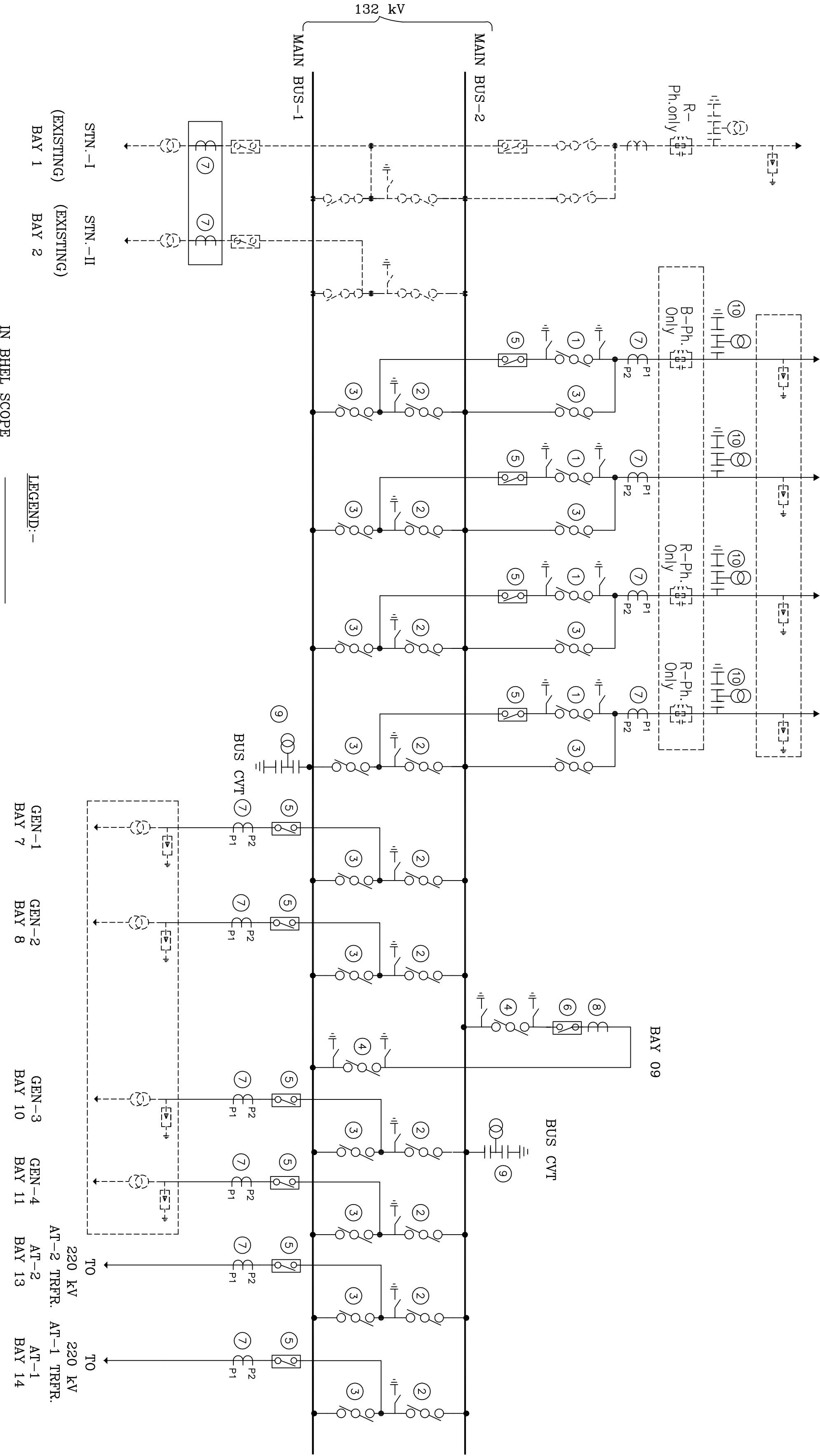
BAY-3
DUBURI-I

BAY-4
DUBURI-II

BAY-5
CHAINPAL

BAY-6
ANGUL

BUS-COUPLER



NOT IN BHEL SCOPE -----

LEGEND:-

IN BHEL SCOPE

COMPUTER DRG. PATH NAME :
C:\TALCHER\SURESH\SINGLE LINE DIAGRAM-TALCHER

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REV.	DATE	ALTD.	CHD.	APPD.	REV.	DATE	ALTD.	CHD.	APPD.	NAME	SIGN.	DATE	DEPT.	CODE	SCALE	W.O. No.	DRG. No.	CARD CODE					
					01	04.03.06	SURESH			DRAWN	DOC	SURESH	16.06.05						BHARAT HEAVY ELECTRICALS LIMITED TRANSMISSION PROJECTS DIVISION	NEXT SHEET			
					DRAWING REVISED AS PER CUSTOMER COMMENTS DATED. 15.07.05										CHECKED	AS/GC	-SD-				02		
										APPROVED	DD	-SD-								SHEET			
										DISTRIBUTION OF PRINTS													01
																			BHEL				

100-015-552-C-BLT. ON GRD

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MM)

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CORE DETAILS OF 132kV CTs

CORE NO.	CURRENT RATIO (A)	OUTPUT BURDEN (VA)	ACCURACY CLASS	MIN. KNEE PT. VOLTAGE	MAX. CT WINDING RESISTANCE (OHMS)	MAX. EXCITING CURRENT AT KNEE PT. VOLTAGE (mA)
1.	1200-600/1	-	PS	1200/600 V	10/5	40 on 1200/1tap 80 on 600/1
2.	1200-600/1	-	PS	1200/600 V	10/5	40 on 1200/1tap 80 on 600/1
3.	1200-600-300/1	40VA	0.2	-	-	-
4.	1200-600-300/1	-	5P20	-	10/5/2.5	40 on 1200/1tap 80 on 600/1tap 160 on 300/1 tap
5.	1200-600-300/1	-	PS	1200/600/300 V	10/5/2.5	40 on 1200/1tap 80 on 600/1tap 160 on 300/1 tap

SCHEDULE OF 132KVEQUIPMENT

NO.	DESCRIPTION	KV.	QTY
1.	1250A, DB, GANG OPERATED ISOLATOR WITH 2 E/S	132kV	04
2.	1250A, DB, GANG OPERATED ISOLATOR WITH 1 E/S	132kV	10
3.	1250A, DB, GANG OPERATED ISOLATOR WITH OUT E/S	132kV	14
4.	1600A, DB, GANG OPERATED ISOLATOR WITH 2 E/S	132kV	02
5.	1250A, SF6 CIRCUIT BREAKER	132kV	10
6.	1600A, SF6 CIRCUIT BREAKER	132kV	01
7.	1250A, CURRENT TRANSFORMER EXTENDED CURRENT - 120%	132kV	36
8.	1250A, CURRENT TRANSFORMER EXTENDED CURRENT - 150%	132kV	03
9.	13200pF CAPACITIVE VOLTAGE TRANSFORMER	132kV	12
10.	5575pF CAPACITIVE VOLTAGE TRANSFORMER	132kV	12

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COMPUTER DRG. PATH NAME :
C:\TALCHER\SURESH\SINGLE LINE DIAGRAM-TALCHER

SIGN & DATE

INVENTORY NO.

DETAILS OF 132kV, 5575 pF CVTs

RATIO	$\frac{132kV}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}}$
SEC-I	CLASS 3P,50VA
SEC-II	CLASS 3P,50VA
SEC-III	0.2/35VA
CAPACITANCE = 5575pF SIMULTANEOUS BURDEN = 50 VA	

DETAILS OF 132kV, 13200 pF CVTs

RATIO	$\frac{132kV}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}}$
SEC-I	CLASS 3P,100VA
SEC-II	CLASS 3P,100VA
SEC-III	0.2/75VA
CAPACITANCE = 13200pF SIMULTANEOUS BURDEN = 100 VA	

NATIONAL THERMAL POWER CORPORATION

CUSTOMER 220/132KV SWITCHYARD AT TALCHER TPS (R&M)

DEPT.

TBEM

CODE

422

SCALE

W.O. No.

DRG. No.

7B-3-255-316-001B

CARD CODE

NEXT SHEET

SHEET No.

02

REV

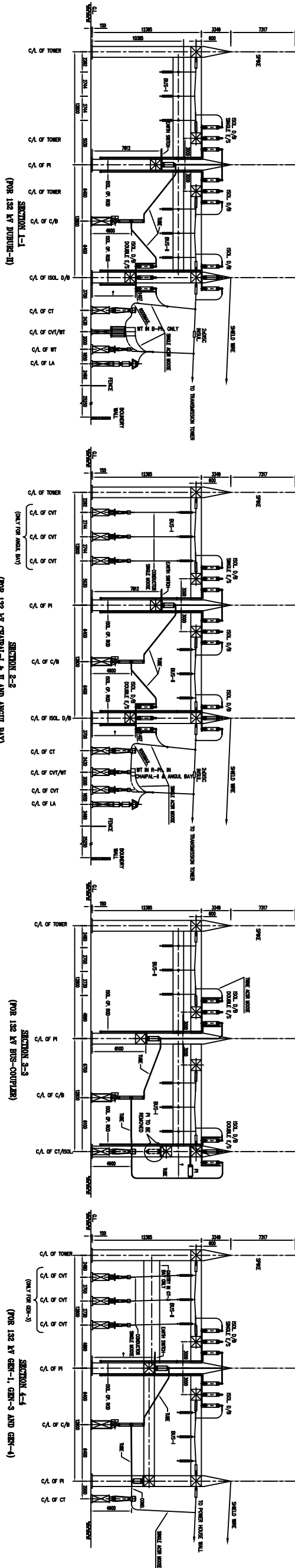
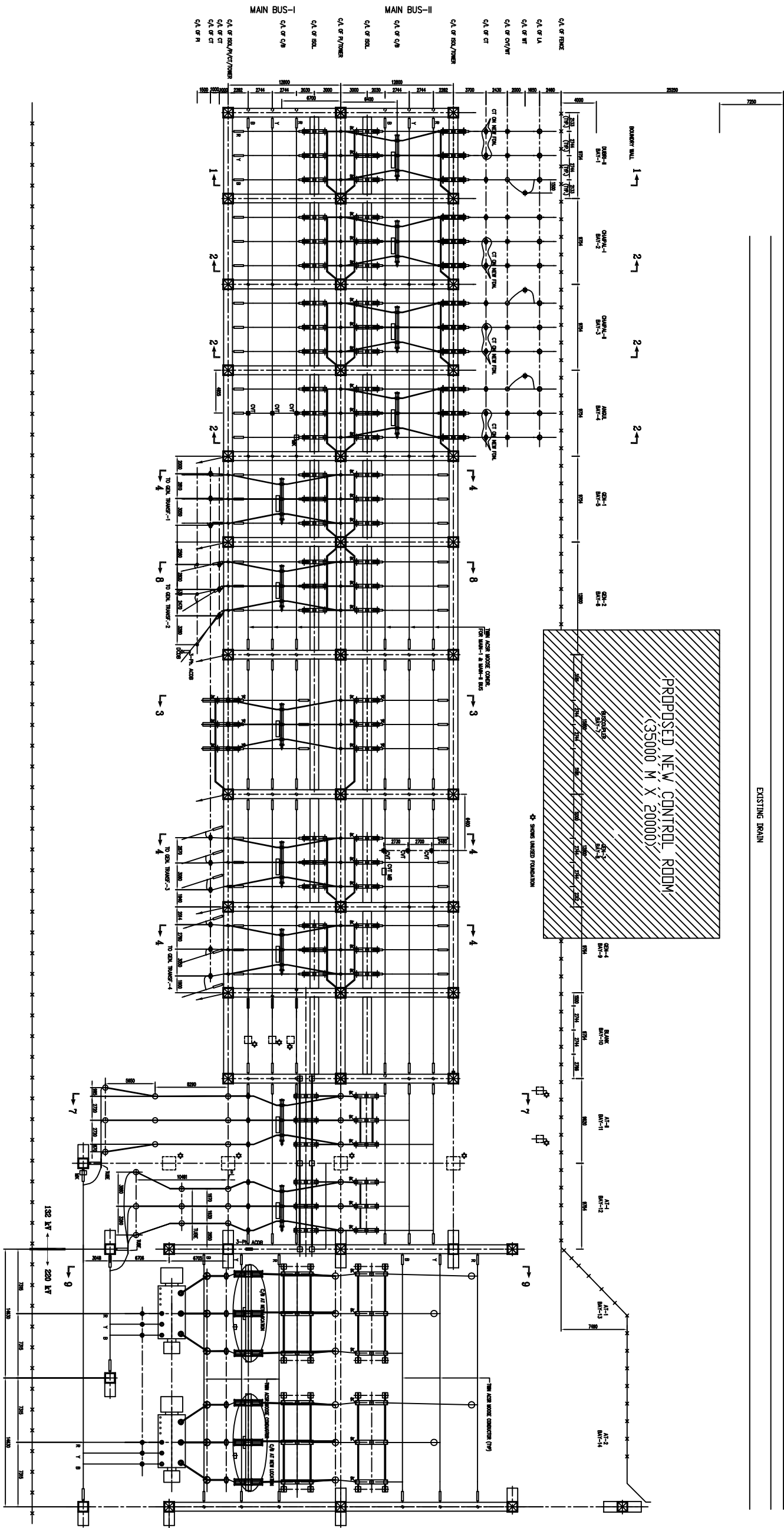
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BHARAT HEAVY ELECTRICALS LIMITED

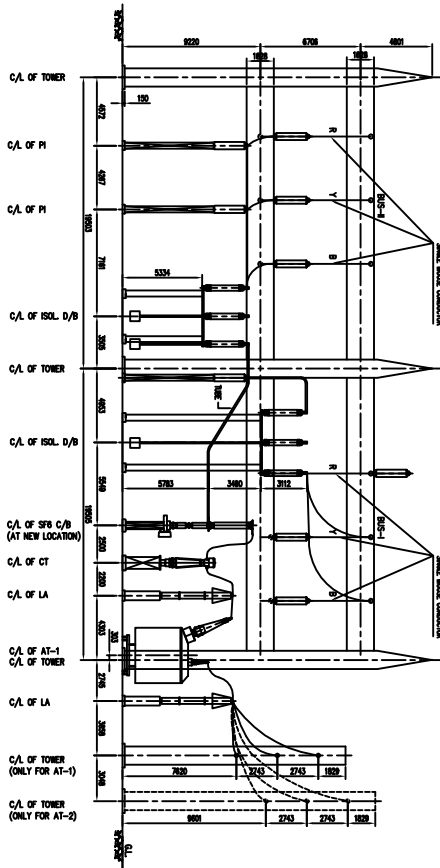
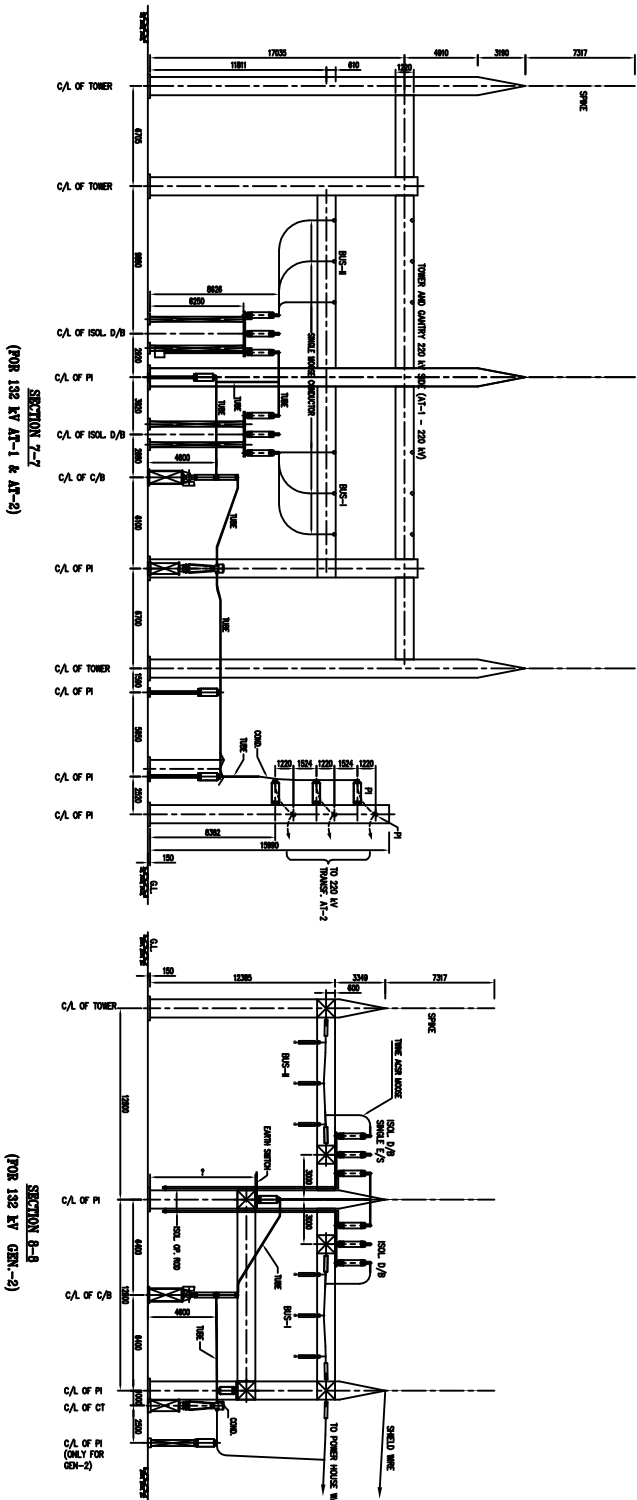
TRANSMISSION PROJECTS DIVISION

132 kV SINGLE LINE DIAGRAM

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MINIMUM CLEARANCE TABLE (AS PER IS 7172)			
PHASE TO PHASE (PP)	2700	1300	
PHASE TO EARTH (PE)	2100	1300	
SECTION CLEARANCE (SC)	5000	4000	
GROUND CLEARANCE (AS PER E RULE)	5500	4600	
TO NEAREST PART NOT AT EARTH POTENTIAL OF AN INSULATOR SUPPORTING LIVE CONDUCTOR	2440	2440	



INVENTORY No.	SIGN. & DATE		REF. DRG. NO.
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