

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

FIRST ANGLE PROJECTION ( ALL DIMENSIONS ARE IN MM )

1

2

3

4

5

6

7

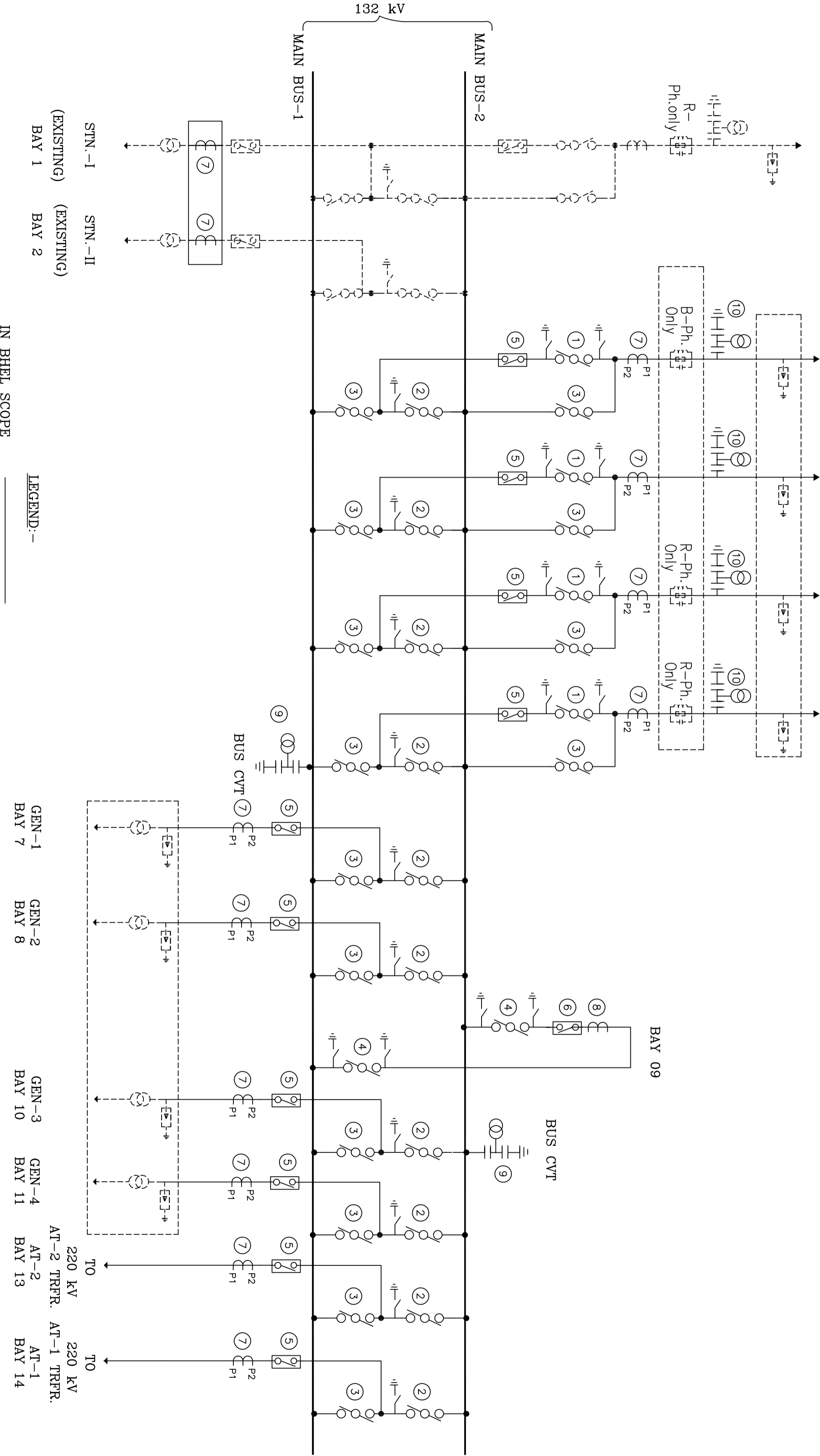
BAY-3  
DUBURI-I

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

COPY RIGHT AND CONFIDENTIAL  
The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED  
it must not be used directly or indirectly in anyway detrimental to the interest of the company.

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						
DRAWING REVISED AS PER CUSTOMER COMMENTS DATED. 15.07.05																			
CHECKED AS/GC																			
APPROVED DD																			
DISTRIBUTION OF PRINTS																			
DEPT.																			
TBEM																			
422																			
132 kV SINGLE LINE DIAGRAM																			
BHARAT HEAVY ELECTRICALS LIMITED																			
TRANSMISSION PROJECTS DIVISION																			
NEXT SHEET																			
02																			
SHEET																			
01																			
REV. 01																			

100-015-552-3-BLT. ON GRD

FIRST ANGLE PROJECTION ( ALL DIMENSIONS ARE IN MM )

1

2

3

4

5

6

7

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

COPY RIGHT AND CONFIDENTIAL

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED it must not be used directly or indirectly in anyway detrimental to the interest of the company.

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)

BHARAT HEAVY ELECTRICALS LIMITED

TRANSMISSION PROJECTS DIVISION

132 kV SINGLE LINE DIAGRAM

SCALEW.O. No.DRG. No.7B-3-255-316-001B

CARD CODE

NEXT SHEET

SHEET 02