

V100-91C-255-3-BLT

ON DRG

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN MM)

1

2

3

4

5

6

7

BAY 17
MERAMUNDLI-1

BAY 19
BUS-COUPLER

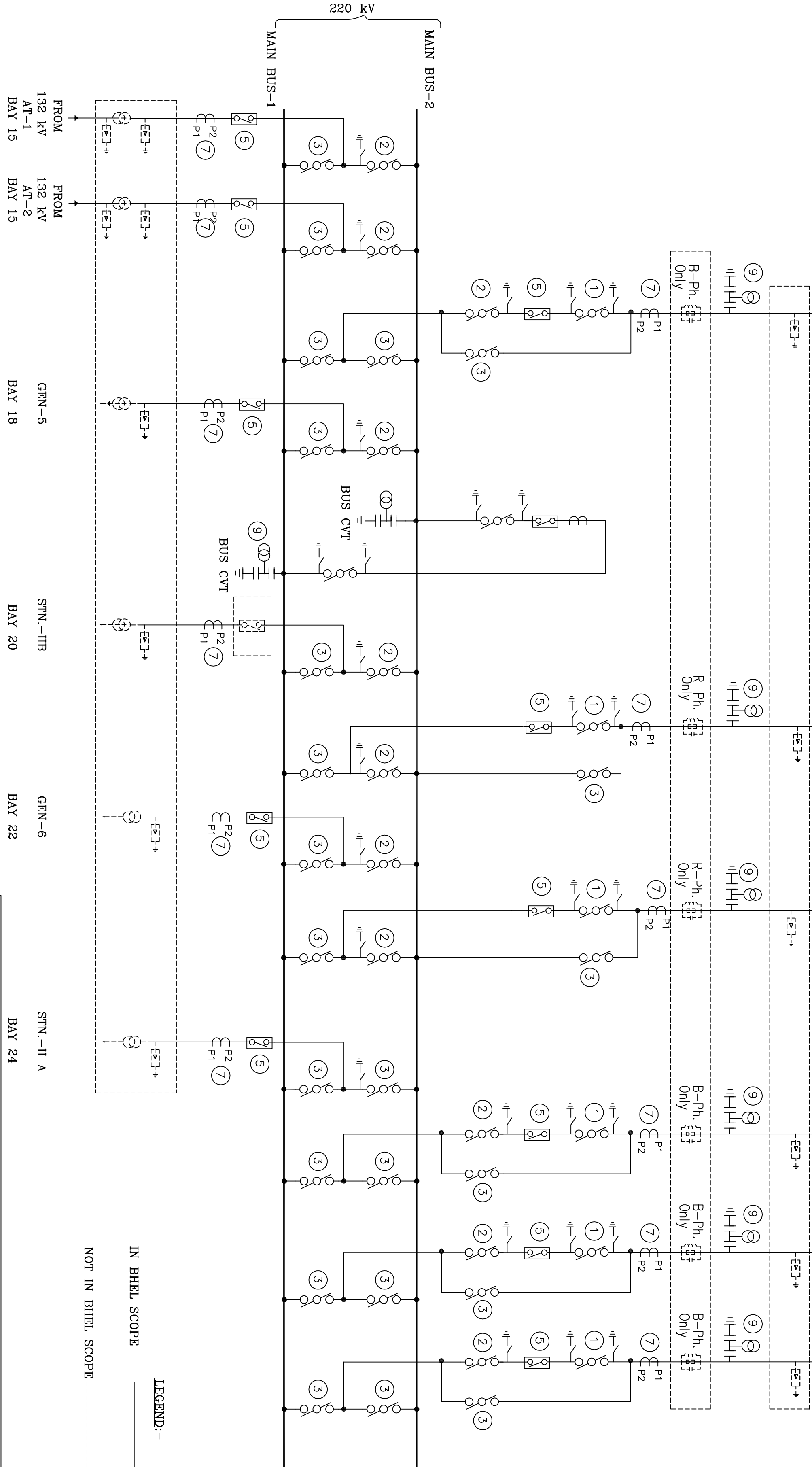
BAY 21
MERAMUNDLI-II

BAY 23
NALCO

BAY 25
KANIHIA

BAY 26
JODA-I

BAY 27
JODA-II



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COMPUTER DRG. PATH NAME : C:\TALCHER\SURESH\220KV SINGLE LINE DIAGRAM-TALCHER

SIGN & DATE

INVENTORY NO.

REV.	DATE	ALTD.	CHD.	APPD.	REV.	DATE	ALTD.	CHD.	APPD.
					01	04.03.06	SURESH		

DRAWING REVISED AS PER CUSTOMER COMMENTS DATED. 15.07.05

NAME OF CUSTOMER				NATIONAL THERMAL POWER CORPORATION - TALCHER			
220/132KV SWITCHYARD AT TALCHER TPS (R&M)							
BHARAT HEAVY ELECTRICALS LIMITED				CARD CODE			
TRANSMISSION PROJECTS DIVISION							

220kV SINGLE LINE DIAGRAM

SCALE	W.O. No.	DRG. No.	7B-3-255-316-001A	REV	01
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FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MM)						
1	2	3	4	5	6	7

CORE DETAILS OF 220KV 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.	1600-800-400/1	-	PS	1600-800-400 V	8/4/2	25 on 1600/1tap 50 on 800/1tap 100 on 400/1tap
2.	1600-800-400/1	-	PS	1600-800-400 V	8/4/2	25 on 1600/1tap 50 on 800/1tap 100 on 400/1tap
3.	1600-800-400/1	30VA	0.2	-	-	-
4.	1600-800-400/1	-	PS	1600-800-400 V	8/4/2	25 on 1600/1tap 50 on 800/1tap 100 on 400/1tap
5.	1600-800-400/1	-	PS	1600-800-400 V	8/4/2	25 on 1600/1tap 50 on 800/1tap 100 on 400/1tap

SCHEDULE OF 220KV EQUIPMENT

NO.	DESCRIPTION	KV.	QTY
1.	1600A, DB, GANG OPERATED ISOLATOR WITH 2 E/S	220kV	06
2.	1600A, DB, GANG OPERATED ISOLATOR WITH 1 E/S	220kV	12
3.	1600A, DB, GANG OPERATED ISOLATOR WITH OUT E/S	220kV	22
4.	2500A, DB, GANG OPERATED ISOLATOR WITH 2 E/S	220kV	02
5.	1600A, SF6 CIRCUIT BREAKER	220kV	11
6.	2500A, SF6 CIRCUIT BREAKER	220kV	01
7.	1600A, CURRENT TRANSFORMER EXTENDED CURRENT – 120%	220kV	36
8.	1600A, CURRENT TRANSFORMER EXTENDED CURRENT – 150%	220kV	03
9.	CAPACITIVE VOLTAGE TRANSFORMER	220kV	24


DETAILS OF 220KV CVTS

RATIO	$\frac{220\text{KV}}{\sqrt{3}} / \frac{110\text{V}}{\sqrt{3}} / \frac{110\text{V}}{\sqrt{3}} / \frac{110\text{V}}{\sqrt{3}}$
SEC-I	CLASS 3P,200VA
SEC-II	CLASS 3P,200VA
SEC-III	0.2/100VA
CAPACITANCE = 4400pF SIMULTANEOUS BURDEN = 100 VA	

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

SIGN & DATE														INVENTORY NO.															
REV.	DATE	ALTD.	CHD.	APPD.	REV.	DATE	ALTD.	CHD.	APPD.	DRAWN	NAME	SIGN.	DATE	DISTRIBUTION OF PRINTS	DEPT.	CODE	SCALE	W.O. No.	DRG. No.	REV									
					01	04.03.06	SURESH			CHECKED	DOC	SURESH	29.06.05																
DRAWING REVISED AS PER CUSTOMER COMMENTS DATED. 15.07.05										DD	AS/GC	-SD-																	
										APPROVED																			
																													
										BHARAT HEAVY ELECTRICALS LIMITED										CARD CODE									
										TRANSMISSION PROJECTS DIVISION																			
										220 kV SINGLE LINE DIAGRAM-TALCHER										NEXT SHEET									
																				SHEET No.									
																				02									
																				REV 01									

NAME OF CUSTOMER	NATIONAL THERMAL POWER CORPORATION – TALCHER 220/132KV SWITCHYARD AT TALCHER TPS (R&M)			
	BHARAT HEAVY ELECTRICALS LIMITED TRANSMISSION PROJECTS DIVISION		CARD CODE	
SCALE	W.O. No.	DRG. No.	220 kv SINGLE LINE DIAGRAM–TALCHER	
			NEXT SHEET	–
			SHEET No.	02
			REV 01	

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