

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-I

BAY 19  
BUS-COUPLER

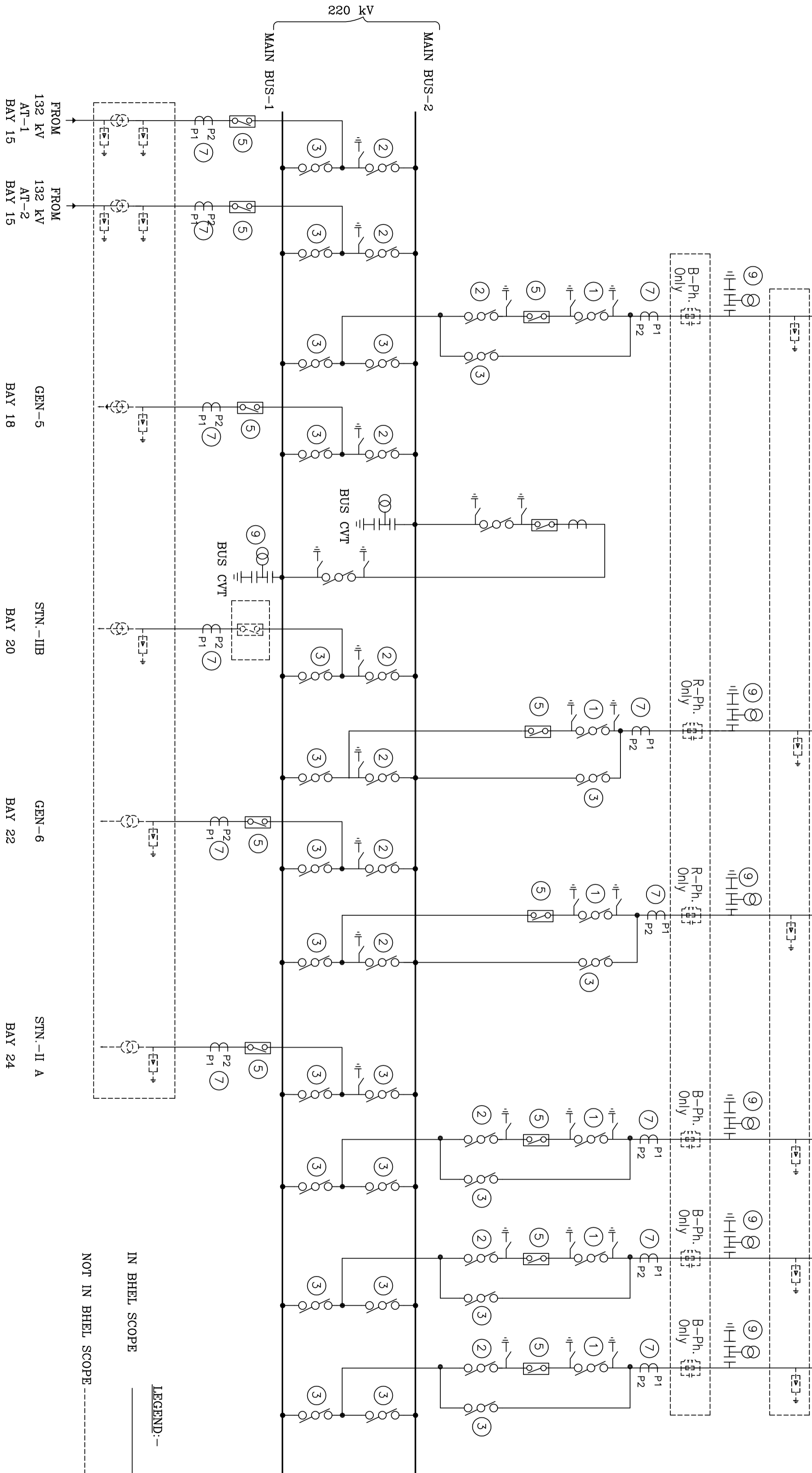
BAY 21  
MERAMUNDLI-II

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

REV. DATE ALTD. CHD. APPD.

REV. DATE ALTD. CHD. APPD.

01 04.03.06 SURESH

NAME SIGN. DATE

DOC SURESH 29.06.05

NATIONAL THERMAL POWER CORPORATION - TALCHER

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

BHARAT HEAVY ELECTRICALS LIMITED

TRANSMISSION PROJECTS DIVISION

CARD CODE

DRAWING REVISED AS PER CUSTOMER COMMENTS DATED. 15.07.05

CHECKED AS/GC -SD- APPROVED DD -SD-

DISTRIBUTION OF PRINTS

DEPT. CODE

TBEM 422

220kV SINGLE LINE DIAGRAM

SCALE

W.O. No.

DRG. No.

TB-3-255-316-001A

NEXT SHEET 02

SHEET 01

INVENTORY NO.

REV 01

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.	CAPACTIVE VOLTAGE TRANSFORMER	220kV	24

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

DETAILS OF 220KV CVTs

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

NATIONAL THERMAL POWER CORPORATION – TALCHER

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

NAME OF CUSTOMER

BHARAT HEAVY ELECTRICALS LIMITED

TRANSMISSION PROJECTS DIVISION

SCALE

W.O. No.

DRG. No.

REV

01

220 kV SINGLE LINE DIAGRAM-TALCHER

NEXT SHEET  
SHEET NO.

CARD CODE

02

REV.

DATE

ALTD.

CHD.

APPD.

REV.

DATE

ALTD.

CHD.

APPD.

DRAWN

DOC

SURESH

29.06.05

CHECKED

AS/GC

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APPROVED

DD

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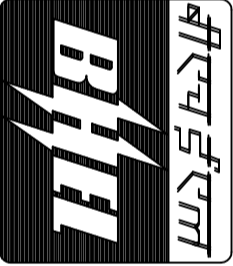
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DEPT.

CODE

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220 kV SINGLE LINE DIAGRAM-TALCHER

NEXT SHEET  
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02