

























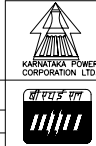
SL.	ITEM DESCRIPTION	KV	QTY.	SYMBOL
1	CIRCUIT BREAKER WITH PIR3150A	400	04	
2	CIRCUIT BREAKER WITHOUT PIR3150A	400	02	
3	ISOLATOR CENTER BREAK MOTOR OPERATED WITH TWO E/SWITCH/MANUAL OPERATED, 2000A	400	04	
4	ISOLATOR CENTER BREAK MOTOR OPERATED WITH ONE E/SWITCH/MANUAL OPERATED, 2000A	400	12	
5	CURRENT TRANSFORMER SCORE	400	12	
5a	CURRENT TRANSFORMER SCORE	400	06	
6	CAPACITOR VOLTAGE TRANSFORMER	400	14	
7	SURGE ARRESTER CLASS IV 20 KA	360	12	
8	STRUCTURE MOUNTED WAVE TRAP (NOT IN BHEL SHEETS)	04	04	
9	CIRCUIT BREAKER,1600A	220	03	
10	ISOLATOR CENTER BREAK MOTOR OPERATED WITH TWO E/SWITCH/MANUAL OPERATED, 1600A	220	07	
11	ISOLATOR CENTER BREAK MOTOR OPERATED WITH ONE E/SWITCH/MANUAL OPERATED, 1600A	220	02	
12	ISOLATOR CENTER BREAK MOTOR OPERATED WITHOUT EARTH/SWITCH, 1600A	220	10	
12A	GANTRY MOUNTED UPRIGHT ISOLATOR CENTER BREAK MOTOR OPERATED WITHOUT EARTH/SWITCH, 1600A	220	03	
12B	GANTRY MOUNTED UNDERHUNG ISOLATOR CENTER BREAK MOTOR OPERATED WITHOUT EARTH/SWITCH,1600A	220	02	
13	CURRENT TRANSFORMER	220	09	
14	EM VOLTAGE TRANSFORMER	220	03	
15	CAPACITOR VOLTAGE TRANSFORMER	220	04	
16	SURGE ARRESTER CLASS II, 10 KA	198	06	
17	STRUCTURE MOUNTED WAVE TRAP (NOT IN BHEL SHEETS)	04	04	
18	POST INSULATOR	400	105	
19	POST INSULATOR	220	122	

MINIMUM CLEARANCE TABLE	220kV	400kV
PHASE TO PHASE (PP)	2400	4100
PHASE TO EARTH (PE)	2100	3500
SECTION CLEARANCE (SC)	5000	6500
VERTICAL CROSSLING CLEARANCE TO NEAREST PART NOT AT EARTH POTENTIAL OF AN INSULATOR SUPPORTING LIVE CONDUCTOR/EQUIPMENT	2440	2440
MINIMUM GROUND CLEARANCE (FROM PLINTH LEVEL)	5500	8000

----- INDICATES EXISTING/FUTURE OR NOT IN BHEL SCOPE
 ===== INDICATES PRESENT SCOPE

1. 3 NO. OF PI IN ST-3 BAY TO BE REMOVED & TO BE REUSED.
2. CO-ORDINATES OF GT-2 & ST-3 ARE TENTATIVE AS PROVIDED BY PEM.

ADDITIONAL INFORMATION W.O. NO.	
STATUS	CONTRACT
DISTRIBUTION	




KARNATAKA POWER CORPORATION LIMITED
BELLARY THERMAL POWER STATION
STAGE-II (1x500MW)

BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION PROJECTS DIVISION
NEW DELHI

COPY RIGHT AND CONFIDENTIAL		DEPT CODE	NAME	SIGN	DATE
<p>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED it must not be used directly or indirectly in any way detrimental to the interest of the company.</p>		422	DESN	MS	-SD-
			CHD	DM	-SD-
			APPD	SN	-SD-

FILE LAYOUT PLAN OF 400/220kV SWITCHYARD

DEPT.	SCALE 1:600
SIGN DATE	

DEPT CODE	NAME	SIGN	DATE
422	DESN	MS	-SD-
	CHD	DM	-SD-
	APPD	SN	-SD-

20kV SWITCHYARD	
DRAWING NO. TB 0 304 316 001	
SHEET OF	REV. 02

PLOT ON W/P	
PAN THICK.	
ALL	0.25
8,9	0.09
11	0.20