

RATING OF - 765 kV (50 kA, 1Sec)		
S.No.	ITEM DESCRIPTION	SYMBOL
1	3-PH, CIRCUIT BREAKER WITH CSD, WITHOUT CR 3150 A (50 kA, 1Sec)	
2	3-PH, ISOLATOR WITH ONE EARTH SWITCH 3150 A (50 kA, 1Sec)	
3	1 PH, ISOLATOR WITHOUT EARTH SWITCH 3150 A (50 kA, 1Sec)	
4	CURRENT TRANSFORMER (50 kA, 1Sec) 3000/1 A 120% EXTENDED CURRENT RATING	
5	SURGE ARRESTER 624 kV	
6	500MVA, 765/4000/33kV 1 ph AUTO TRANSFORMER *	

RATING OF 400kV EQUIPMENTS (63 kA, 1Sec)

ITEM No.	DESCRIPTION	SYMBOL
1.	400kV,3150A,63kA,1sec,SF6,3Ph CIRCUIT BREAKER WITHOUT CLOSING RESISTOR WITH CSD	
2.	400kV,3150A,63kA,1sec, 3-PHASE HDB ISOLATOR WITH ONE EARTH SWITCH	
3.	400kV,3150A,63kA,1sec, 1-PHASE HDB ISOLATOR WITHOUT EARTH SWITCH	
4.	400kV,CURRENT TRANSFORMER (1-Ø) 3000A,63kA,1sec 120% EXTENDED CURRENT RATING	
5.	336kV, LIGHTNING ARRESTER (1-Ø)	

* OWNER SUPPLIED EQUIPMENTS

	CR
	CSD
	CR & CSD

LEGEND:-

- 765KV SCOPE
- 400KV SCOPE
- 220KV SCOPE
- INDICATES FUTURE SCOPE
- UNDER PRESENT SCOPE

NOTE:-

1. SHORT CIRCUIT LEVEL OF EQUIPMENTS:
   a. 765kV (Existing): 40kA/1sec
   b. 400kV (Existing): 50kA/1sec

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT : AUGMENATION WITH 765/400KV, 1X1500 MVA TRANSFORMER (5TH) AT BHADLA-2 PS

SUBSTATION: 765/400/220 kV BHADLA-II P.S SUBSTATION (EXTN.)

TITLE : SINGLE LINE DIAGRAM DRAWING OF 765/400/220kV BHADLA-II P.S(EXTN.)

DATE	DRAWN BY	DRAWING NO.	REV.
JAN 2024		C/ENGG-SS/NR-I/SEZ/BHADLA-II PS/SLD/01	00