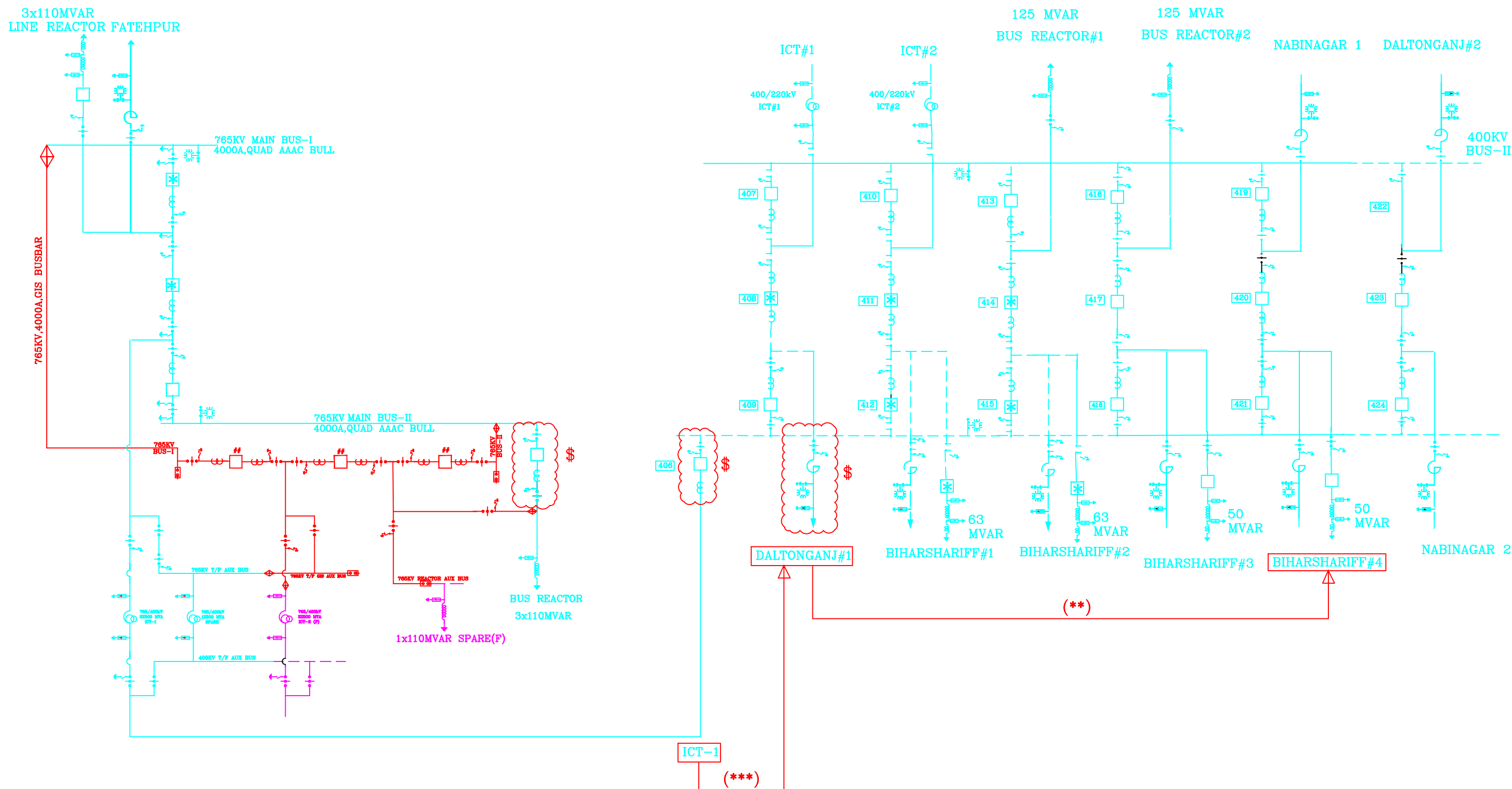




400kV: PRESENT SCOPE

- (**) Shifting of Dal tonganj-1 T/L (currently terminated in Bay no. 409) to Bay No. 421 thereby making Bay no. 409 spare
- Dismantling of line side equipments (LA, WT, CVT, ISO, BPI) of Bay - 409
- (***) 400kV side of 765/400kV ICT-1 currently terminated in Bay no.406 to be shifted to Bay no. 409 thereby resulting in termination of ICT-1 in complete diameter through Bay nos. 407-408-409
- Dismantling of Bay no. 406.
- Bay equipment/jack bus and other associated equipment in the diameter 407-408-409 shall be upgraded to higher current rating (i.e. 3000/3150A) as per TS/BPS.

\$ EQUIPMENTS TO BE DISMANTLED UNDER PRESENT SCOPE

Note: Existing 765kV & 400kV Equipments are rated for SC current rating of 40kA for 1 sec
However, new equipments to be supplied under present scope shall be with following SC rating :
765kV : 50kA for 1 sec
400kV : 63kA for 1 sec

LEGEND :

EXISTING	
FUTURE	
PRESENT SCOPE	

LEGENDS		
SL.	ITEM DESCRIPTION - 765KV	SYMBOL
1	(765/_/3)/(400/_/3)/33 kV, 500 MVA Transformer (1-phase)	
2	110 MVAR, 765/_/3 kV Bus Reactor (1-phase)	
3	80 MVAR, 765/_/3 kV Shunt Reactor (1-phase) with NGR and 120kV LA	
4	765 kV, 3150A, CIRCUIT BREAKER with PIR (3-ph)	
5	765 kV, 3150A, CIRCUIT BREAKER w/o PIR (3-ph)	
6	765 kV, 3150A, Double-break ISOLATOR with 1 E/S (3-ph)	
7	765 kV, 3150A, Double-break ISOLATOR with 2 E/S (3-ph)	
8	765 kV, 3000A, 120% extended current rating C.T.(1-ph)	
9	624 kV SURGE ARRESTER(1-ph)	
10	765 kV, 8800pF CVT(1-ph)	
11	765kV, 3150A, 1.0mH Wave Trap	
ITEM DESCRIPTION - 400KV		
12	50 MVAR,400 kV Shunt Reactor(3-phase) with NGR & 120kV LA	
13	125 MVAR, 400 kV Bus Reactor (3-phase)	
14	420 kV, 3150A, CIRCUIT BREAKER without PIR (3-ph)	
15	420 kV, 3150A, Double-break ISOLATOR with 1 E/S (3-ph)	
16	420 kV, 3150A, Double-break ISOLATOR with 2 E/S (3-ph)	
17	420 kV, 3000A, 120% extended current rating C.T.(1-ph)	
18	390 kV SURGE ARRESTER(1-ph)	
19	420 kV, 8800pF CVT(1-ph)	
20	400kV, 3150A, 40kA, 1.0mH Wave Trap	
21	765KV GIS BUS EXTENSION MODULE	
22	765KV SF6 TO AIR BUSHING	
23	CONTROL SWITCHING DEVICE	

FOR TENDER PURPOSE ONLY.

POWER GRID CORPORATION OF INDIA LIMITED (A GOVERNMENT OF INDIA ENTERPRISE)		
PROJECT: ERES-51: DIAMETER COMPLETION AT SASARAM (POWERGRID) S/S		
SUBSTATION: 765/400KV SASARAM S/STN		
TITLE: SINGLE LINE DIAGRAM		
DATE AUG 26	DRG.NO. C/ENGG/ER/ERES-51/SASARAM/SLD/01	REV 00