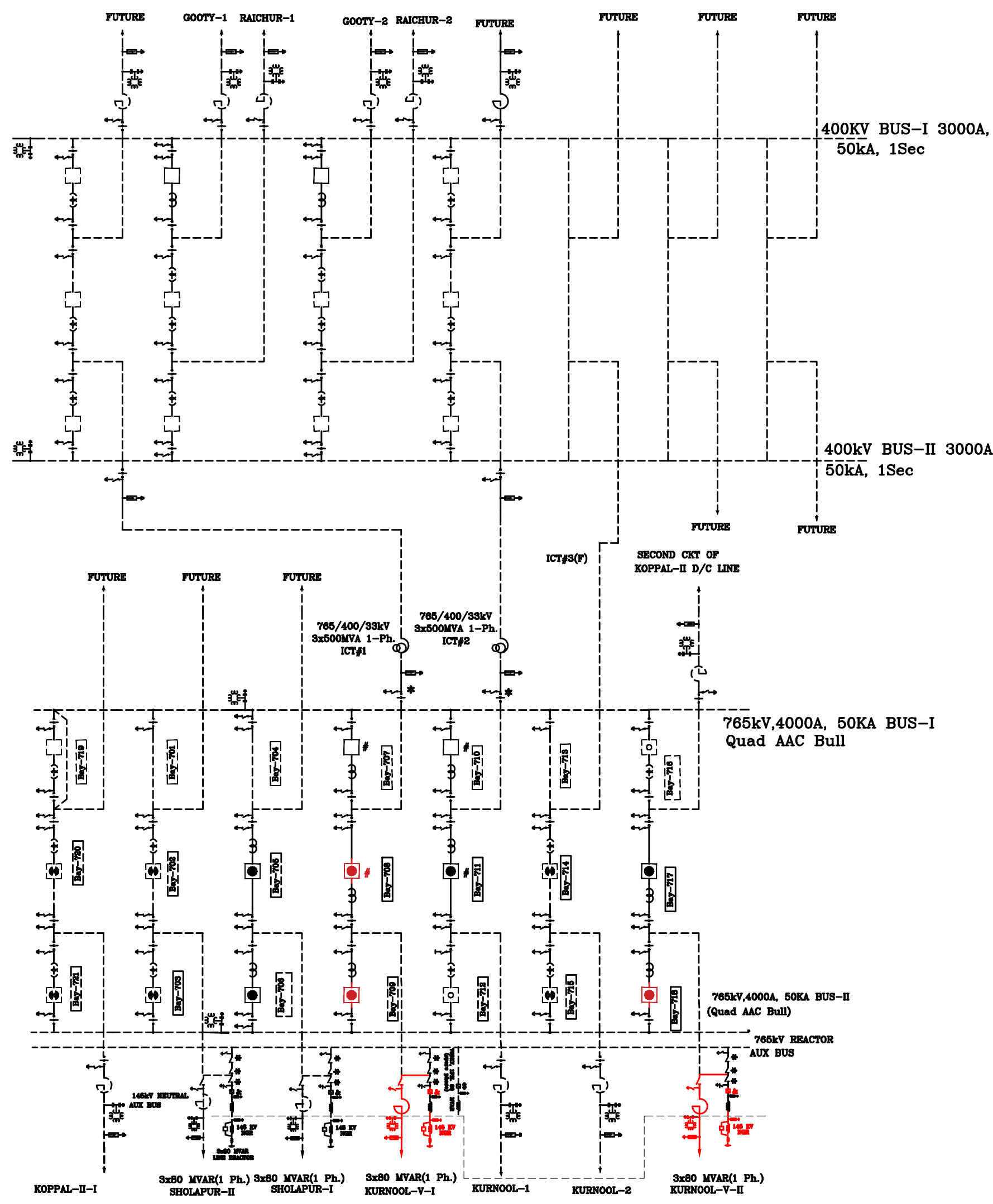




LEGEND - 765 kV

SL.	ITEM DESCRIPTION	SYMBOL
1	CIRCUIT BREAKER WITH CR 3150 A, 50 KA, 1SEC	
2	CIRCUIT BREAKER WITH CR AND WITH CSD 3150 A, 50 KA, 1SEC	
3	ISOLATOR WITH ONE EARTH SWITCH 3150 A (3-ph.), 50KA	
4	ISOLATOR WITH TWO EARTH SWITCHES 3150 A (3-ph.), 50KA	
5	CURRENT TRANSFORMER 3000/1 A, 50KA	
6	CAPACITOR VOLTAGE TRANSFORMER 765kV, 1-Ph., 8800pF	
7	SURGE ARRESTER 624 kV	
8	WAVE TRAP 765kV, 1mH, 1-Ph., 3150A, 50KA,	
9	765kV, 3150A, 50KA, 1sec, 1-PHASE ISOLATOR WITHOUT EARTH SWITCH (INDIVIDUAL POLE OPERATED) (KNEE TYPE VERTICAL BREAK)	
10	765kV, 3150A, 50KA, 1sec, SF6, 3P CIRCUIT BREAKER WITHOUT CLOSING RESISTOR WITH CSD FOR 1PH. REACTOR SWITCHING.	
11	765kV, 3150A, 50KA, 1sec, SF6, 1P CIRCUIT BREAKER WITHOUT CLOSING RESISTOR FOR 1PH. SPARE REACTOR SWITCHING	

LEGEND:

- PRESENT SCOPE
----- EXISTING/FUTURE

NOTES:

- BUS REACTOR AT BAY NO.709 AND 718 SHALL BE CONVERTED TO SWITCHABLE REACTOR AND SHALL BE USED FOR TERMINATION OF KURNOOL V D/C LINE
- CB AT BAY 709, 718 SHALL BE DISMANTLED AND REPLACED WITH CB WITH PIR
CB AT BAY NO. 708 SHALL BE DISMANTLED AND REPLACED WITH CB WITH PIR AND CSD

POWER GRID CORPORATION
OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)



PROJECT: TRANSMISSION SYSTEM FOR INTEGRATION OF KURNOOL-V REZ PHASE-I- UPGRADATION WORKS AT NAGARJUNASAGAR AND RAICHUR			
SUBSTATION: EXTENSION OF 765KV RAICHUR SUBSTATION			
TITLE: SINGLE LINE DIAGRAM			
DATE	DRAWN	DRG.NO.	REV
DEC 2025		C/ENGG/RTM/KURNOOL-V UPGRAD/RAICHUR/SLD/01.0	