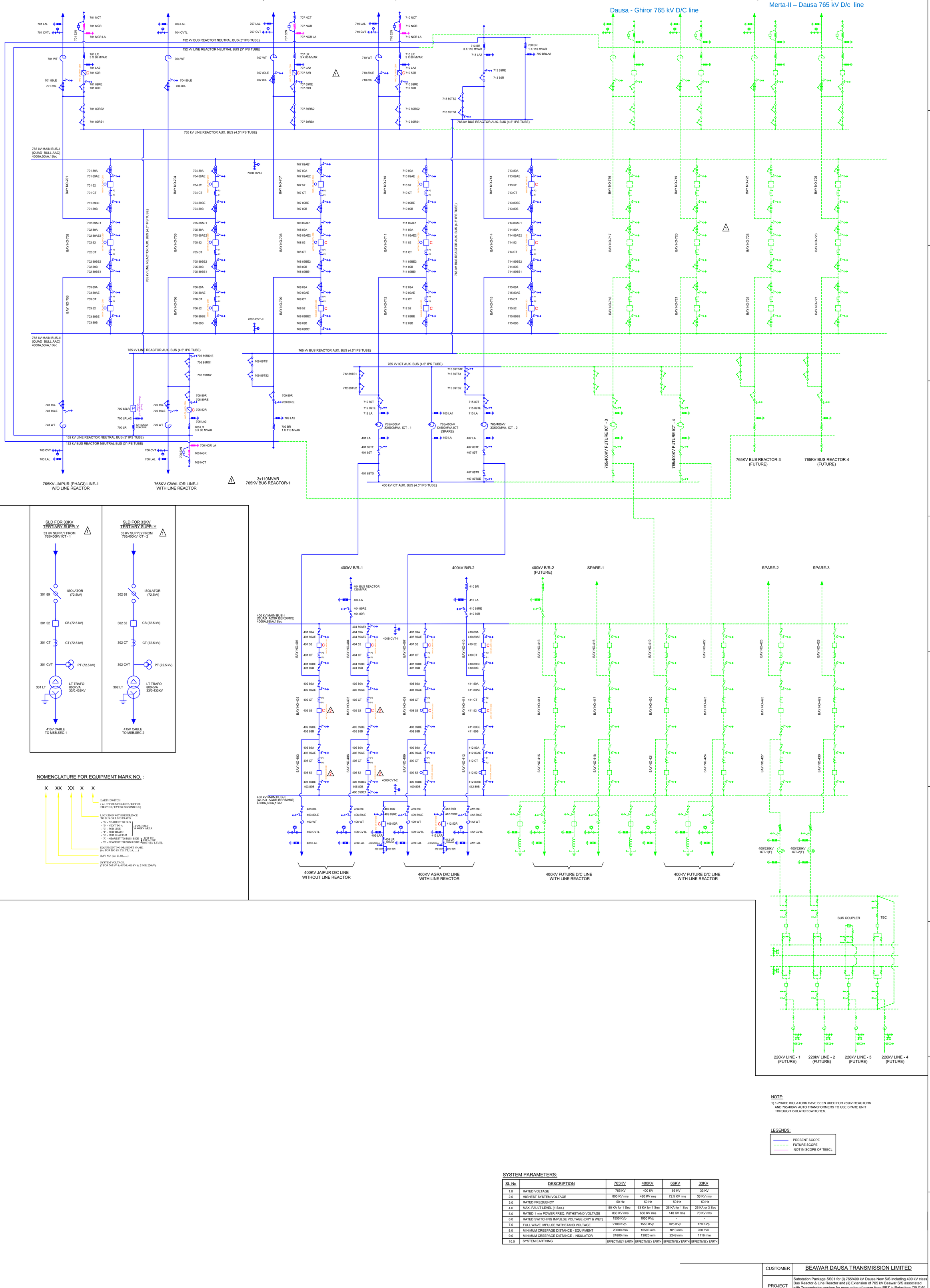

NOMENCLATURE FOR EQUIPMENT MARK NO. :

X XX XX X X

- EARTH SWITCH (i.e. 'E' FOR SINGLE E/S, 'E1' FOR FIRST E/S, 'E2' FOR SECOND E/S)
- LOCATION WITH REFERENCE TO BUS OR LINE/TRAFO.
  - 'A' - NEAREST TO BUS
  - 'B' - NEXT TO A
  - 'L' - FOR LINE
  - 'T' - FOR TRAFO
  - 'R' - FOR REACTOR
  - 'A' - NEAREST TO BUS I SIDE
  - 'B' - NEAREST TO BUS II SIDE
  - FOR 765kV & 400kV AREA
  - FOR TIE AREA FOR BOTH kV LEVEL
- EQUIPMENT NO OR SHORT NAME. (i.e. FOR ISO 89, CB, CT, LA, ...)
- BAY NO. (i.e. 01,02,.....)
- SYSTEM VOLTAGE. (7 FOR 765 kV & 4 FOR 400 kV & 2 FOR 220kV)

NOTE:

1) 1-PHASE ISOLATORS HAVE BEEN USED FOR 765kV REACTORS AND 765/400kV AUTO TRANSFORMERS TO USE SPARE UNIT THROUGH ISOLATOR SWITCHES.

LEGENDS:

- PRESENT SCOPE
- FUTURE SCOPE
- NOT IN SCOPE OF TEECL

SYSTEM PARAMETERS:

SL No	DESCRIPTION	765KV	400KV	66KV	33KV
1.0	RATED VOLTAGE	765 KV	400 KV	66 KV	33 KV
2.0	HIGHEST SYSTEM VOLTAGE	800 KV rms	420 KV rms	72.5 KV rms	36 KV rms
3.0	RATED FREQUENCY	50 Hz	50 Hz	50 Hz	50 Hz
4.0	MAX. FAULT LEVEL (1 Sec.)	50 KA for 1 Sec	63 KA for 1 Sec	25 KA for 1 Sec	25 KA or 3 Sec
5.0	RATED 1 min POWER FREQ. WITHSTAND VOLTAGE	830 KV rms	630 KV rms	140 KV rms	70 KV rms
6.0	RATED SWITCHING IMPULSE VOLTAGE (DRY & WET)	1550 KVp	1050 KVp	-	-
7.0	FULL WAVE IMPULSE WITHSTAND VOLTAGE	2100 KVp	1550 KVp	325 KVp	170 KVp
8.0	MINIMUM CREEPAGE DISTANCE - EQUIPMENT	20000 mm	10500 mm	1813 mm	900 mm
9.0	MINIMUM CREEPAGE DISTANCE - INSULATOR	24800 mm	13020 mm	2248 mm	1116 mm
10.0	SYSTEM EARTHING	EFFECTIVELY EARTH	EFFECTIVELY EARTH	EFFECTIVELY EARTH	EFFECTIVELY EARTH

CUSTOMER	BEAWAR DAUSA TRANSMISSION LIMITED
PROJECT	Substation Package SS01 for (i) 765/400 kV Dausa New S/S including 400 kV class Bus Reactor & Line Reactor and (ii) Extension of 765 kV Beawar S/S associated with Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III-Part-H through tariff based competitive bidding (TBCB) route.
SUBSTATION	765/400 KV DAUSA NEW SUBSTATION
DRG. TITLE	DAUSA S/S (NEW)-765/400kV SWICTHYARD SINGLE LINE DIAGRAM
DRG. NO. :	
SCALE :	NTS — SHEET 01 OF 02