

LEGEND OF 400kV EQUIPMENTS (TABLE-2)

SL. No.	DESCRIPTION	SYMBOL
1.	500 MVA AUTO TRANSFORMER 3-PH., 400/220/33 kv (OWNER SUPPLIED)	
2.	400kV,3150A,63kA,1sec,SF6,3PH CIRCUIT BREAKER WITH CLOSING RESISTOR	
3.	400kV,3150A,63kA,1sec, 3-PHASE ISOLATOR WITH ONE EARTH SWITCH	
4.	400kV,3150A,63kA,1sec, 3-PHASE ISOLATOR WITH TWO EARTH SWITCH	
5.	400kV,3150A,63kA,1sec, 1-PHASE ISOLATOR WITH ONE EARTH SWITCH (INDIVIDUAL POLE OPERATED)	
6.	400kV,3150A,63kA,1sec, 1-PHASE ISOLATOR WITHOUT EARTH SWITCH (INDIVIDUAL POLE OPERATED)	
7.	400kV,CURRENT TRANSFORMER (1-φ) 3000A,6 CORE 63kA,1sec	
8.	400kV ,1-PH CVT (4400pF)	
9.	336kV,20kA LIGHTNING ARRESTER (1-φ)	

LEGEND OF 765kV EQUIPMENTS (TABLE-1)

SL. No.	DESCRIPTION	SYMBOL
1.	1500 MVA AUTO TRANSFORMER(BANK OF 3x1 PH.) 765/400/33 kv (OWNER SUPPLIED)	
2.	765kV,3150A,50kA,1sec,SF6,3PH,CIRCUIT BREAKER WITHOUT CLOSING RESISTOR WITHOUT CSD	
3.	765kV,3150A,50kA,1sec, 3-PHASE ISOLATOR WITH ONE EARTH SWITCH(KNEE TYPE VERTICAL BREAK)	
4.	765kV,3150A,50kA,1sec, 3-PHASE ISOLATOR WITH TWO EARTH SWITCH(KNEE TYPE VERTICAL BREAK)	
5.	765kV,3150A,50kA,1sec, 1-PHASE ISOLATOR WITH ONE EARTH SWITCH (INDIVIDUAL POLE OPERATED) (KNEE TYPE VERTICAL BREAK)	
6.	765kV,3150A,50kA,1sec, 1-PHASE ISOLATOR WITHOUT EARTH SWITCH (INDIVIDUAL POLE OPERATED) (KNEE TYPE VERTICAL BREAK)	
7.	765kV,CURRENT TRANSFORMER 3000A,50kA,1sec 120% EXTENDED CURRENT RATING 1-φ	
8.	765kV ,1-PH CVT (8800pF)	
9.	624kV, 20kA LIGHTNING ARRESTER (1-φ) DISCHARGE CURRENT,20kA	

S.No.	LEGEND	SYMBOL
1.	CB without PIR and with CSD	
2.	CB with PIR and with CSD	
3.	CB without PIR and without CSD	

LEGEND:-

	RAJ PH-2 PART-C & PART-D
	FUTURE SCOPE

CONSULTANT:

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

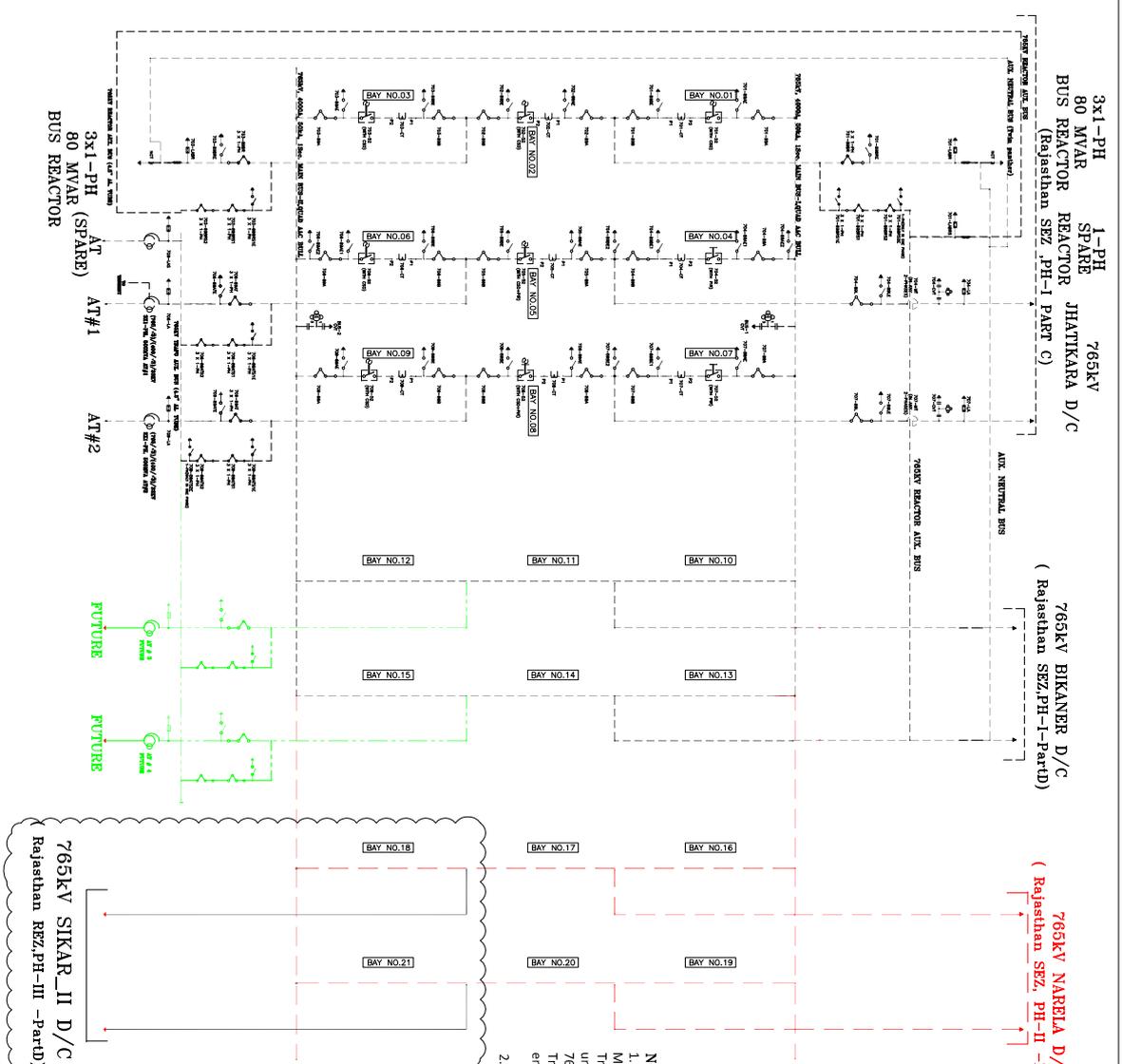


PROJECT: BAY ALLOCATION

SUBSTATION: 765/400KV SIKAR-II (NEW) S/S

TITLE: SINGLE LINE DIAGRAM

DATE	SCALE	DRG.NO.	REV
MARCH 2023	NTS	C/ENG/NR-1/765-400KV/SIKAR-II/SLD/01	0



- Legend**
- Existing
 - Future
 - Scope of works under Rajasthan SEZ-PH-II Part G
 - Scope of works under Rajasthan REZ-PH-III Part D

DCM (ENGG-S/S)	Sr.GM (ENGG-S/S)	CGM (ENGG-S/S)	ED (ENGG-S/S/T./KCTYD)
CLEARED BY			APPROVED BY

NOTE:

- Construction of 765kV diameters comprising of bay nos. 16, 17, 19 & 20 alongwith Main-I & Main-II bus extension work have already been allocated under Rajasthan SEZ Ph II Part-G Transmission System. Construction of 765kV bays with bay nos. 18 & 21 are being allocated under present scope of Rajasthan REZ Ph III Part-D Transmission System. This implies that 765kV bays for termination of Khetri - Sikar II 765kV D/C line (under Rajasthan REZ Ph III Part-D Transmission System) can be constructed only after construction/commissioning of 765kV bays envisaged under Rajasthan SEZ Ph II Part-G Transmission System.
- Drawing Reference for SLD under Rajasthan SEZ Ph II Part-G : C/ENGG/TBCB/EXTN./KHETRI/765kV/SLD/01/80

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

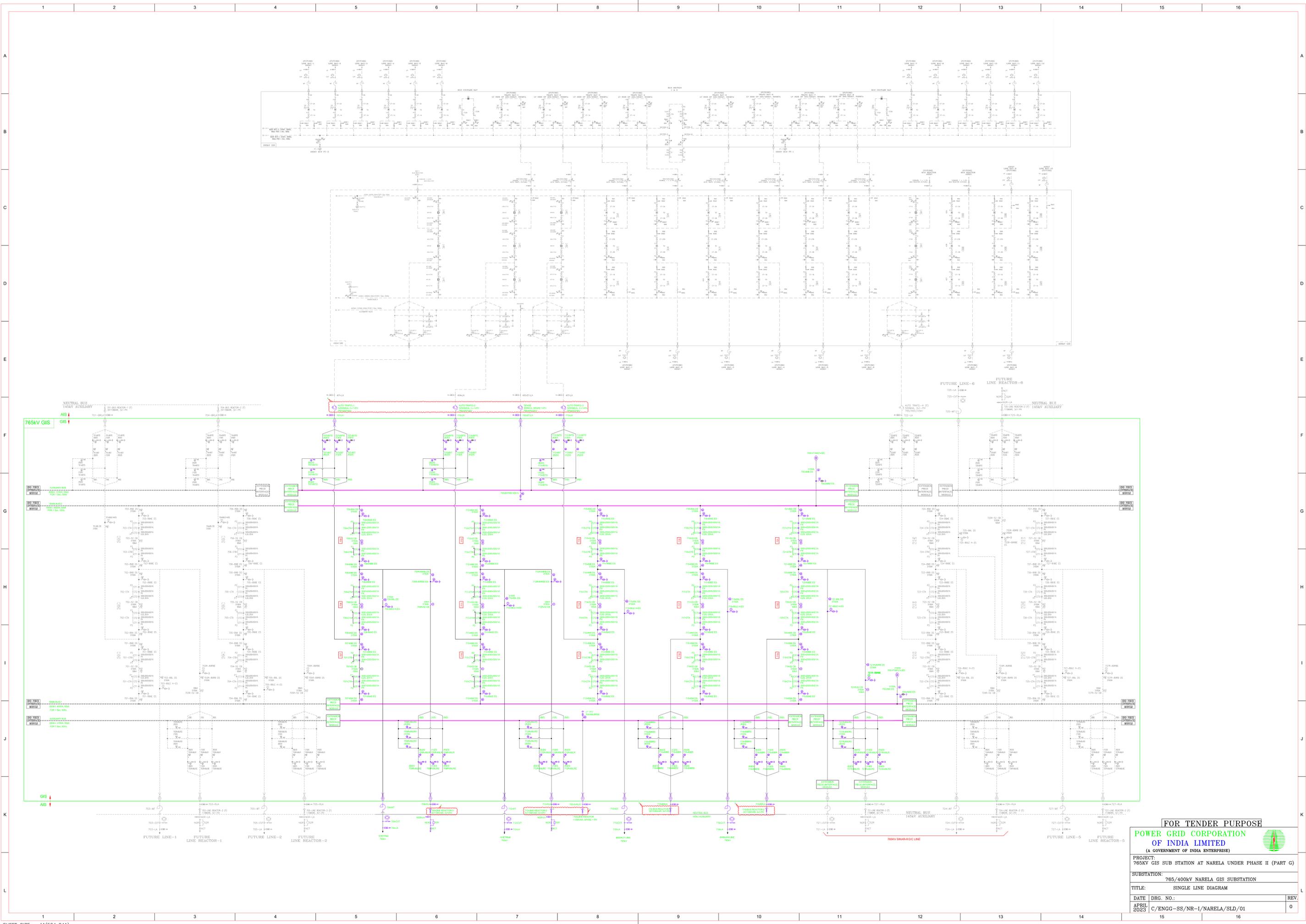
PROJECT : Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part D

SUBSTATION : 765/400KV KHETRI S/S (EXTN)

TITLE : BAY ALLOCATION AT 765/400KV KHETRI S/S FOR 765 kV SIKAR_II-KHETRI D/C LINE

DRAWN DATE DRAWING NO. REV.

c/ENGG/TBCB/KHETRI/765KV/EXTN/PH-III/01 0



FOR TENDER PURPOSE

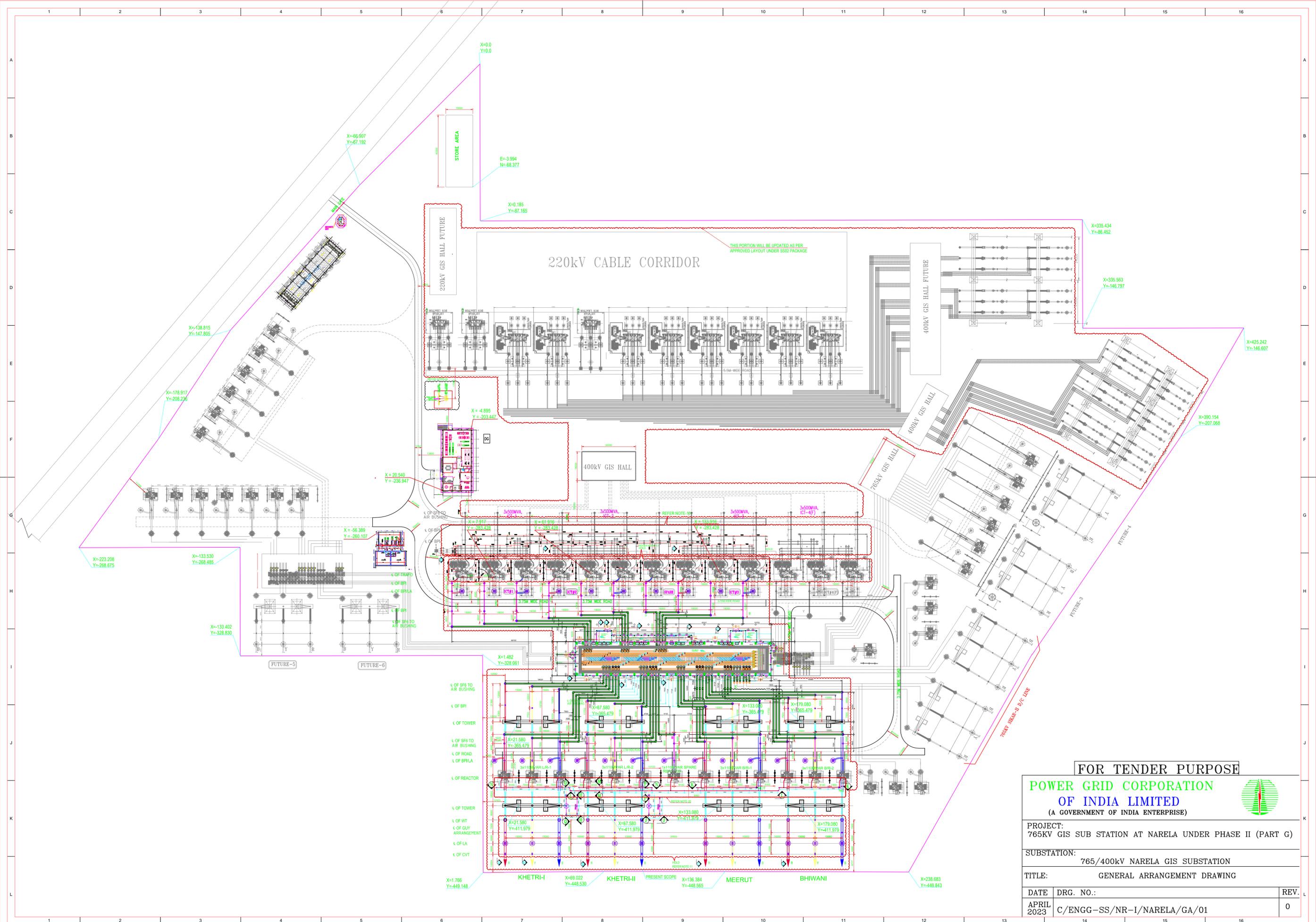
**POWER GRID CORPORATION
OF INDIA LIMITED**
(A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT: 765KV GIS SUB STATION AT NARELA UNDER PHASE II (PART C)

SUBSTATION: 765/400KV NARELA GIS SUBSTATION

TITLE: SINGLE LINE DIAGRAM

DATE	DRG. NO.	REV
APRIL 2023	C/ENGG-SS/NR-1/NARELA/SLD/01	0



220kV CABLE CORRIDOR

400kV GIS HALL

765kV GIS HALL

400kV GIS HALL FUTURE

220kV GIS HALL FUTURE

STORE AREA

FOR TENDER PURPOSE

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



PROJECT:
765kV GIS SUB STATION AT NARELA UNDER PHASE II (PART G)

SUBSTATION:
765/400kV NARELA GIS SUBSTATION

TITLE:
GENERAL ARRANGEMENT DRAWING

DATE	DRG. NO.:	REV.
APRIL 2023	C/ENGG-SS/NR-I/NARELA/GA/01	0