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COMPUTER DRG. PATH NAME :

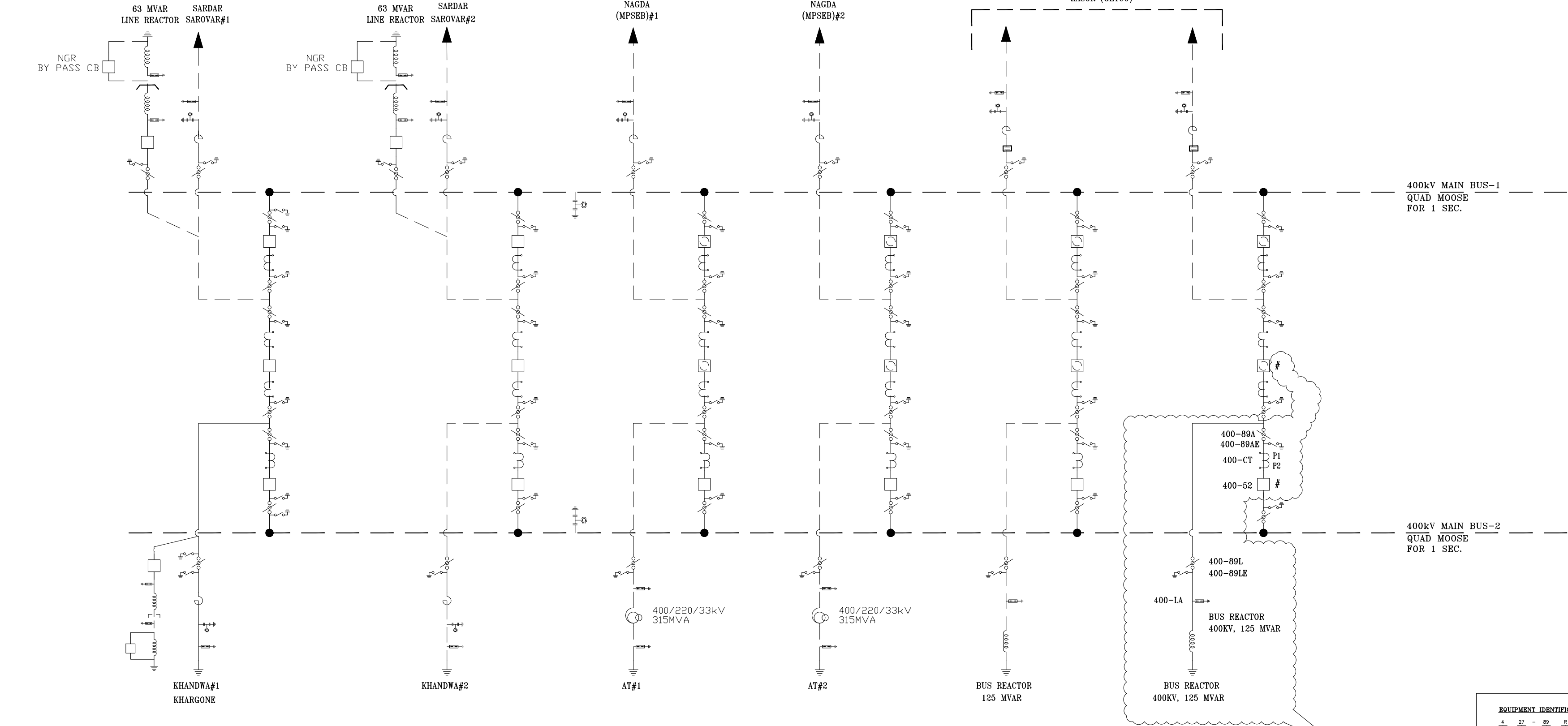
REF. DRG. No.

SIGN. & DATE

INVENTORY No.

TF-408-510-R01

DRAWING No.



BILL OF QUANTITIES-400KV:

S.NO.	SYMBOL	LEGEND	DECCRIPTION	QTY. (NOS)
01		BR	125MVAR 400kV, 3-PH BUS REACTOR	1
02		52	400KV, 3150A, 3-PH CIRCUIT BREAKER WITHOUT CLOSING RESISTOR	1
03		#	CONTROLLED SWITCHING DEVICE (SUITABLE FOR 3 PHASE CIRCUIT BREAKER)	2
03		89	400KV, 3150A, 3-PH, HORIZONTAL DOUBLE BREAK ISOLATOR WITH 1 E/S	2
04		CT	400KV. 3000A, 1-PH CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING	3
05		LA	336KV, 1-PH, SURGE ARRESTER	3

CT DETAILS:

420 kV, 3000A, CT (6 CORE)

Core	Current Ratio	Accuracy Class	Output Burden VA	Min kPV (V)	Max RCT in Ohms	Max Im at kPV (mA)	Purpose
1	3000-2000-500/1	PX	-	3000-2000-500	15/10/2.5	20-30-120	BUS DIFF CHECK
2	3000-2000-500/1	PX	-	3000-2000-500	15/10/2.5	20-30-120	BUS DIFF MAIN
3	3000-2000-500/1	0.2S	20	-	-	-	METERING
4	3000-2000-500/1	0.2S	20	-	-	-	METERING
5	3000-2000-500/1	PX	-	3000-2000-500	15/10/2.5	20-30-120	REACTOR BACKUP
6	3000-2000-500/1	PX	-	3000-2000-500	15/10/2.5	20-30-120	REACTOR DIFF

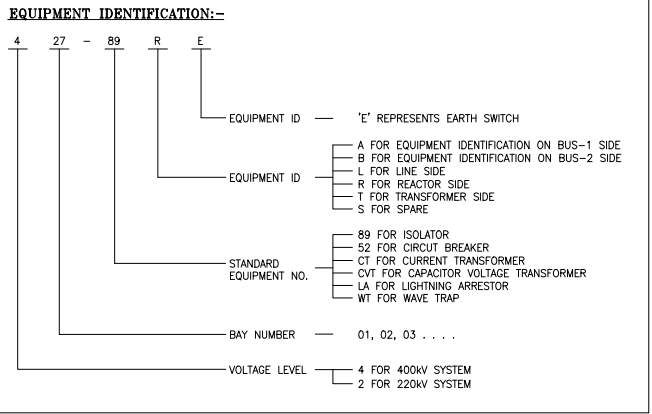
400KV SINGLE LINE DIAGRAM

SYSTEM PARAMETERS:

S.NO.	DESCRIPTION	400KV
01	SYSTEM OPERATING VOLTAGE	400kV
02	MAXIMUM OPERATING VOLTAGE OF THE SYSTEM (rms)	420kV
03	RATED FREQUENCY	50Hz
04	FULL WAVE IMPULSE WITHSTAND VOLTAGE (1.2/50 MICROSES.)	1550kVp
05	SWITCHING IMPULSE WITHSTAND VOLTAGE (250/2500 MICRO SEC.) DRY AND WRT	1050kVp
06	ONE MINUTE POWER FREQUENCY DRY WITHSTAND VOLTAGE (rms)	630kV
07	ONE MINUTE POWER FREQUENCY DRY AND WET WITHSTAND VOLTAGE (rms)	--
08	CORONA EXTINCTION VOLTAGE	320kV
09	MAX. RADIO INTERFERENCE VOLTAGE FOR FREQUENCY BETWEEN 0.5 MHz AND 2 MHz	1000μV AT 266kV rms
10	MINIMUM CREEPAGE DISTANCE-FOR EQUIPMENT OTHER THAN INSULATOR STRING	10500mm
11	SYSTEM FAULT LEVEL	40kA FOR 1 SEC

LEGENDS:-

—————	PRESENT SCOPE
-----	EXISTING / FUTURE



REFERENCE DRAWING:

1. xxxxxx

NOA NO. : CC-CS/901-WR2/SS-3931/3/G3/NOA-I/8864 & 8865 DT. 29.07.19

ADDITIONAL INFORMATION W.O.No. I19TB00001		ग्राहक/परियोजना का नाम NAME OF CUSTOMER/PROJECT		POWER GRID CORPORATION OF INDIA LIMITED Substation Package-SS19 for extension of (i) 765kV Solapur S/S; (ii) 765kV Aurangabad S/S; (iii) 765kV Wardha S/S; (iv) 400kV Khandwa S/S; (v) 400kV Rajgarh S/S; (vi) 400kV Champa S/S; (vii) 400/220kV Itarsi S/S & (viii) 400/220kV Jabalpur Substation under WRSS-20.	
STATUS OF DRAWING CONTRACT		DISTRIBUTION OF PRINTS		Bharat Heavy Electricals Limited TRANSMISSION PROJECTS DIVISION	
REV.	DATE	ALTERED CHECKED APPROVED	विभाग DEPT. कोड CODE	प्रमाणित / SCALE NTS	कार्ड कोड CARD CODE
ZONE		शीर्षक/TITLE SINGLE LINE DIAGRAM FOR EXTN. OF 400KV RAJGARH S/S		ड्राईंग.क्र./DRAWING NO. TB-408-510-R01	
				पृष्ठ क्र./SHEET No. 01	
				अगला पृष्ठ/NEXT SHEET --	