FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MM.)

DRAWING No. TB-408-510-J11

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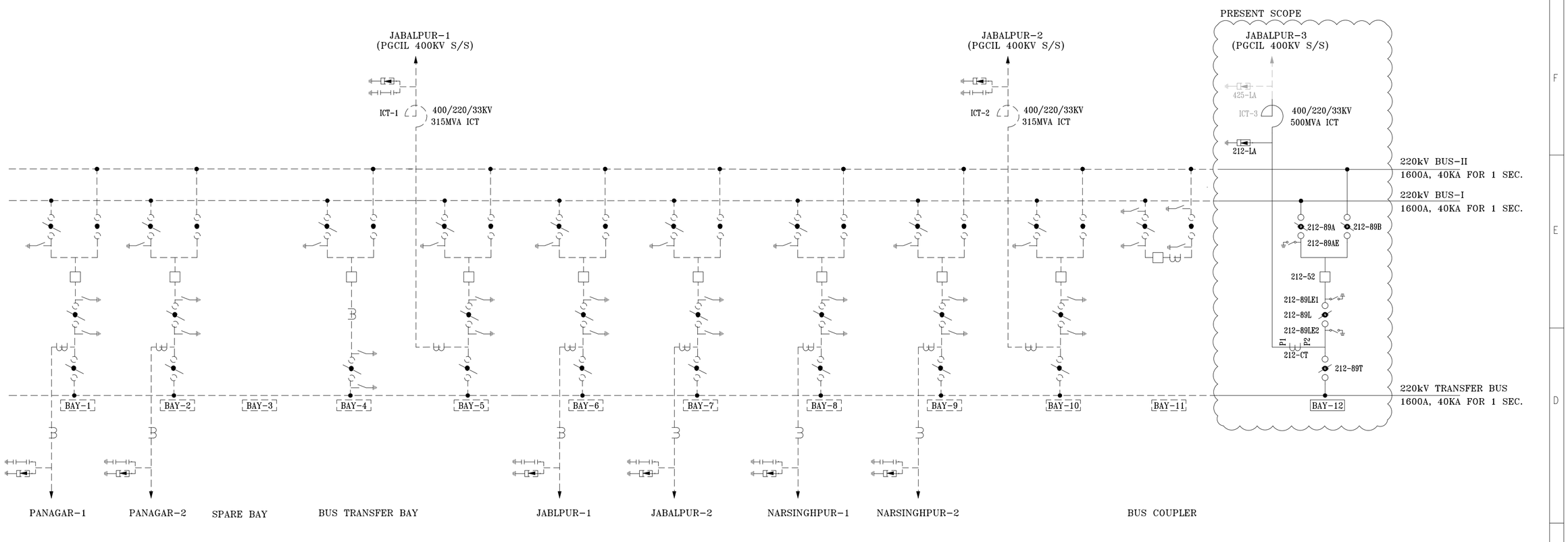
COMPUTER DRG. PATH NAME :

REF. DRG. No.

SIGN. & DATE

INVENTORY No.



220KV SINGLE LINE DIAGRAM

BILL OF QUANTITIES-220KV:

S.NO.	SYMBOL	LEGEND	DECCRIPTION	QTY. (NOS)
01		52	220KV, 1600A, 3-PH CIRCUIT BREAKER	1
02		89	220KV, 1600A, 3-PH, HORIZONTAL DOUBLE BREAK ISOLATOR WITH 2 E/S	1
03		89	220KV, 1600A, 3-PH, HORIZONTAL DOUBLE BREAK ISOLATOR WITH 1 E/S	1
04		89	220KV, 1600A, 3-PH, HORIZONTAL DOUBLE BREAK ISOLATOR WITHOUT E/S	2
05		CT	220KV, 1600A, 3-PH CURRENT TRANSFORMER WITH 120% EXTENDED CURRENT RATING	3
06		LA	216KV, 1-PH, SURGE ARRESTER	3

SYSTEM PARAMETERS:

S.NO.	DESCRIPTION	400KV	220KV
01	SYSTEM OPERAYING VOLTAGE	400kV	220kV
02	MAXIMUM OPERATING VOLRAGE OF THE SYSTEM (rms)	420kV	245kv
03	RATED FREQUENCY	50Hz	50Hz
04	FULL WAVE IMPULSE WITHSTAND VOLTAGE (1.2/50 MICROSES.)	1550kVp	1050kVp
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)	--	460kV
08	CORONA EXTINCTION VOLTAGE	320kV	--
09	MAX. RADIO INTERFERENCE VOLRAGE FOR FREQUENCY BETWEEN 0.5 MHz AND 2 MHz	1000µV AT 266kV rms	1000µV AT 156kV rms
10	MINIMUM CREEPAGE DISTANCE-FOR EQUIPMENT OTHER THAN INSULATOR STRING	10500mm	6125mm

CT DETAILS:

245 kV, 1600A, CT (5 CORE)

Core No.	Current Ratio	Accuracy Class	Output Burden VA	Min kPV (V)	Max RCT in Ohms	Max Im at kPV (mA)	Purpose
1	1600-800/1	PX	-	1600-800	8/4	25-50	BUS DIFF CHECK
2	1600-800/1	PX	-	1600-800	8/4	25-50	BUS DIFF MAIN
3	1600-800/1	0.2S	20	-	-	-	METERING
4	1600-800/1	PX	-	1600-800	8/4	25-50	TRANS. BACKUP
5	1600-800/1	PX	-	1600-800	8/4	25-50	TRANS. DIFF

LEGENDS:-

PRESENT SCOPE

EXISTING SCOPE

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

ADDITIONAL INFORMATION
W.O.No. I19TB00001

STATUS OF DRAWING CONTRACT

DISTRIBUTION OF PRINTS

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.

BHEL भारत हेवी इलेक्ट्रिकल्स लिमिटेड
पारेषण परियोजना विभाग
BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION PROJECTS DIVISION

	नाम /NAME	हस्ता./SIGN.	दि./DATE
बनाया DRAWN	DS		12.09.19
जाँचा CHECKED	JK		12.09.19
स्वीकृत APPROVED	SKS		12.09.19

REV.	DATE	
		ALTERED
		CHECKED
		APPROVED

ZONE

विभाग DEPT. TBEM
कोड CODE 422
अनुपात / SCALE NTS
कार्ड कोड CARD CODE

Digitally signed by JAI KUMAR
DN: c=IN, o=BHARAT HEAVY ELECTRICALS LIMITED, postalCode=201306, st=Uttar Pradesh, 2.5.4.20=7ed1c5e179f736d455551f1d1bcd3bc0b0affea2593258177457ca2604f4d34f5c57, cn=JAI KUMAR
Date: 2019.09.16 11:11:01 +05'30'
JAI KUMAR

शीर्षक/TITLE
SINGLE LINE DIAGRAM
FOR EXTN. OF 220KV JABALPUR S/S

ड्राईग.क्र./DRAWING NO. TB-408-510-J11

पुनः/REV. 00

पृष्ठ क्र./SHEET No. 01 अगला पृष्ठ/NEXT SHEET –

SIZE-A2