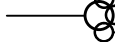
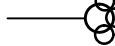
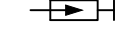
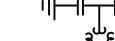




S.No.	DESCRIPTION	SYMBOLS	UNIT	QTY
1.	CIRCUIT BREAKER, 2000 A (3-Ph)		No.	15
2.	ISOLATOR, 2000 A (3-Ph)		No.	40
3.	EARTH SWITCH, 2000A (3-Ph)		No.	34
4.	FAST ACTING EARTH SWITCH, 2000A (3-Ph)		No.	06
5.	CURRENT TRANSFORMER, 2000 A (1-Ph)		No.	120
6.	400 KV BUS EMTV (1-Ph)		No.	06
7.	400 KV EMTV FOR LINE/GT (1-Ph)		No.	21
8.	SURGE ARRESTOR, 390kV, 20kA (1-Ph)		No.	27
9.	BUS REACTOR(125MVAR)(BHEL-BPL SUPPLY)		No.	02
10.	SF6 TO AIR BUSHING (1-Ph)		No.	30
11.	400 KV LINE CVT (1-Ph)		No.	12
12.	ISOLATOR-BUS SECTIONALISER, 4000A (3-Ph)		No.	06
13.	GENERATOR TRANSFORMER, 3 X 275 MVA, 420/√3/22kV (BHEL-PEM SUPPLY)		No.	02
14.	STANDBY/MAINTENANCE TRANSFORMER 400/11.5/11.5 kV (BHEL-PEM SUPPLY)		No.	01

1	Nominal system voltage	400 kV (rms)
2	Highest system voltage	420 kV (rms)
3	Type of earthing	Solidly grounded
4	Lightning impulse withstand voltage	1425 kV (peak)
5	Switching impulse withstand voltage	1050 kV (peak)
6	Power frequency withstand voltage (dry)	630 kV (rms)
7	Short Circuit level	63 kA for 1 sec
8	Creepage distance for outdoor	31 mm/kV
9	Bus bar rating	4000A
10	Bus Sectionaliser Isolator Rating	4000A
11	Breaker Rating (Bay)	2000A
12	Isolator Rating (Bay)	2000A
13	Lightning Arrester	390 kV

VOLTAGE TRANSFORMER PARAMETER								
Bay	Ref. Designation	Feeder	Type	Core	Ratio V/V	Rated Output (VA)	Class	Purpose
=00ACA06,=00ACA10,=00ACA12, =00ACA13,=00ACA15 =00ACA01 =00ACA09 BUS VT	=EMVL	LINE FEEDER	VT	-1	400:√3/0.11:√3	100	3P	PROTECTION
	=EMVTG	GT FEEDER		-2	400:√3/0.11:√3	100	3P	PROTECTION
	=EMVTG			-3	400:√3/0.11:√3	100	0.2	METERING
	=VT1, =VT1	MAIN BUS						

LOI NO.	Lr.No.CE/Proj-II/SE/C/UT PP/EE/Eo/L/D/179/2017, dt.07.12.2017		TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD.							
W.O.No.			NAME OF CUSTOMER/PROJECT 400KV GIS AT 2X660MW UDANGUDI STPP-STAGE 1							
STATUS OF DRAWING										
DISTRIBUTION OF PRINTS										
REV.	DATE	ALTERED CHECKED APPROVED	 भारत हेवी इलेक्ट्रिकल्स लिमिटेड భారత్ హెవీ ఎలక్ట్రికల్స్ లిమిటెడ్ BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION		अनुपात / SCALE		कार्ड कोड / CARD CODE	गणन / NAME SY परीक्षा CHECKED SS स्वीकृत APPROVED SKS	हस्ता / SIGN.	दि./DATE 06.02.18 06.02.18 06.02.18
ZONE			विभाग / DEPT. कोड / CODE शीट पृष्ठ / TITLE	SINGLE LINE DIAGRAM OF 400KV GIS SUBSTATION			ड्राईंग नं./DRAWING NO. TB-1-400-316-001	पृष्ठ नं./SHEET No. 01	अगला पृष्ठ /NEXT SHEET	पुनः/REV. 00