



NOMINAL VOLTAGE	66kV	22kV
RATED VOLTAGE	66kV	22kV
POWER FREQUENCY	72.5kV	24kV
WITHSTAND	140kV	50kV
BASIC INSULATION LEVEL	325kVp	145kVp
BUSBAR RATING	2000A	2500A
EQUIPMENT SHORT CIRCUIT RATING	40kA 1s	25kA 1s
FAULT RATING	TBC	TBC
DESIGN TEMPERATURE RANGE	-5.6 : +40°C OUTDOOR	0 : +40°C INDOOR
ALTITUDE	< 1050 m asl	
NEUTRAL EARTHING	NER 350A 10s	

66kV VTs:	
1. FEEDER VTs :-	
$\frac{66kV}{\sqrt{3}}$	$\frac{110V}{\sqrt{3}}$ / $\frac{110V}{\sqrt{3}}$ / $\frac{110V}{\sqrt{3}}$
50VA	Cl.0.2 (METERS/INDICATION)
50VA	Cl.0.2 (METERS/INDICATION)
50VA	Cl.3P (PROTECTION)
2. BUSBAR VTs :-	
$\frac{66kV}{\sqrt{3}}$	$\frac{110V}{\sqrt{3}}$ / $\frac{110V}{\sqrt{3}}$
50VA	Cl.0.2 (METERS)
50VA	Cl.3P (PROTECTION)

KEY:	CT / VT CIRCUITS
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VECTOR RELATIONSHIP

66kV 22kV
PHASE ROTATION 'STANDARD ACW'

NOTES:

- ★ Location For Provision Of Future Busbar Extension.
- It Is The Responsibility Of The Bidder To Design And Define The Arrangement Of The Gas-Tight Partitioning and Isolating Links To Achieve The Required 66kV GIS Service Continuity.

	Rev. A Updated Drawing 29.08.19 by Y.L	Date: 07/01/2019	LA CHAUMIERE 66/22kV SUBSTATION SINGLE LINE AND PROTECTION DIAGRAM
	Rev. B Notation of phase rotation changed - 24.09.19	Drawn: J.M	
	Rev. C VT added to TX Bay - 27.09.19	Chkd: M.P.N	
	Rev. D Amendment of 22kV Busbar rating in Notes - 31.01.2020	Appd: B.S/N.E	Scale: N.T.S
	Rev. E Percentage Impedance Amended 23.11.2023 Y.L		DRAWING No.CEB/GIS-19/18 Rev1