



Voltage Transformer Details				
	Winding	Ratio	Class	Burden (VA)
CVT-21,23 (Protection)	Winding-1	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	3P (1.0)	100
	Winding-2	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	3P	
CVT-24,25 (Metering)	Winding-1	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	0.2	100
	Winding-2	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	0.2	
CVT-BB1,BB2 (Protection)	Winding-1	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	3P (1.0)	100
	Winding-2	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	3P	
CVT-12,22 (Protection)	Winding-1	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	3P	100
	Winding-2	220kV / $\sqrt{3}$ kV-0.11/ $\sqrt{3}$ kV	3P	

NOTE: The final Nomenclature will be provided later by KETRACO

SYMBOL	DESCRIPTION
	Motorized disconnect Switch/Earth Switch
	Motorized Disconnect Switch
	Circuit Breaker 220kV, 2000A, 40KA(1sec). Spring Changed Operation Mechanism
	3Ph, TWO WINDING, CAPACITIVE VOLTAGE TRANSFORMER
	1Ph, TWO WINDING, CAPACITIVE VOLTAGE TRANSFORMER
	3Ph, VOLTAGE TRANSFORMER
	CURRENT TRANSFORMER
	REACTOR
	CAPACITOR
	SURGE ARRESTER WITH DISCHARGE COUNTER

Current Transformer Details T27, T25				
Core	Ratio	Class	Burden (VA)	Remarks
Core-1	2000-1000/1A	0.2s	30	Metering
Core-2	2000-1000/1A	0.2s	30	Metering

T11,T14,T21,T24				
Core	Ratio	Class	Burden (VA)	Remarks
Core-1	2000-1000/1A	5P20	30	Busbar Protection Main-1
Core-2	2000-1000/1A	5P20	30	Busbar Protection Main-2
Core-3	2000-1000/1A	0.2s	30	Metering
Core-4	2000-1000/1A	5P20	30	Line Protection Main-1
Core-5	2000-1000/1A	5P20	30	Line Protection Main-2

T12,T13,T23,T22				
Core	Ratio	Class	Burden (VA)	Remarks
Core-1	2000-1000/1A	5P20	30	Trf Protection Main-1
Core-2	2000-1000/1A	5P20	30	Trf Protection Main-2
Core-3	2000-1000/1A	0.2s	30	Metering
Core-4	2000-1000/1A	5P20	30	Line Protection Main-1
Core-5	2000-1000/1A	5P20	30	Line Protection Main-2

T16,T26				
Core	Ratio	Class	Burden (VA)	Remarks
Core-1	2000-1000/1A	5P20	30	Trf Protection Main-1
Core-2	2000-1000/1A	5P20	30	Trf Protection Main-2
Core-3	2000-1000/1A	5P20	30	Trf Protection Main-2

Designaion	Core	Ratio	Class
Neutral HVCT	Core-1	2000-1000/1A	5P20
	Core-2	2000-1000/1A	5P20
Neutral LV CT	Core-1	2000-1000/1A	5P10
	Core-2	2000-1000/1A	5P10

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	KENYA ELECTRICITY TRANSMISSION COMPANY LIMITED (KETRACO) REPUBLIC OF KENYA
JOINT VENTURE OF NIPPON KOEI.,LTD NEW JEC INC	
MOMBASA SPECIAL ECONOMIC ZONE DEVELOPMENT PROJECT	
SEZ Substation-Single Line Diagram	
Electrical	
MARCH 2024	MSEZ-2022-SS/E-002