



2	TIME DELAY RELAY	87B	BUSBAR DIFFERENTIAL PROTECTION
21/ 21N	DISTANCE RELAY WITH THREE ZONES	87L	LINE DIFFERENTIAL PROTECTION
24	OVER FLUX RELAY	87NT	RESTRICTED EARTH FAULT PROTECTION RELAY FOR TRANSFORMER
25	SYNCHRO-CHECK RELAY	87NR	RESTRICTED EARTH FAULT PROTECTION RELAY FOR REACTOR
27	UNDER(ZERO) VOLTAGE RELAY	87NTV	RESTRICTED EARTH FAULT PROTECTION RELAY FOR EARTHING TRANSFORMER
46BC	UNBALANCY PROTECTION / BROKEN CONDUCTOR	87T	TRANS. DIFFERENTIAL PROT.(BIASED DIFF.)
49	THERMAL OVER LOAD PROTECTION	87R	REACTOR DIFFERENTIAL PROTECTION RELAY
50	INSTANTANEOUS OVER CURRENT RELAY	87HVC	TRANSFORMER HV CIRCUIT DIFFERENTIAL PROTECTION
50BF	CIRCUIT BREAKER FAILURE RELAY(WITH 2-STAGE)	87LVC	TRANSFORMER LV CIRCUIT DIFFERENTIAL PROTECTION
50NS	INSTANTANEOUS SENSITIVE EARTH FAULT RELAY	94	TRIP RELAY
50/51	INSTANTANEOUS AND INVERSE TIME OVER CURRENT RELAY	94X	AUX. TRIP RELAY WITH HIGH SPEED CONTACT
50N/ 51N	INSTANTANEOUS AND INVERSE EARTH FAULT RELAY	94Y	AUX. TRIP RELAY WITH FLAG
51	INVERSE TIME OVER CURRENT RELAY	95CT	CT SUPERVISION
59	OVER VOLTAGE RELAY	95VT	VOLTAGE SUPERVISION
67	DIRECTIONAL OVER CURRENT RELAY WITH INVERSE TIME CHARACTERISTIC	97	FUSE FAILURE (IN DISTANCE RELAY)
67N	DIRECTIONAL EARTH FAULT RELAY	2/ MECH	TRANSFORMER MECHANICAL PROTECTION
79	AUTO RECLOSE RELAY SINGLE SHOT 1&3 PHASE	BCU	BAY CONTROL UNIT
85	CARRIER INTERFACE/REMOTE TRIP	C.R	CLOSE RELAY
86	LOCKOUT RELAY	DTT	DIRECT TRANSFER TRIP

ER	EVENT RECORDER
FR	FAULT RECORDER
F.F.	FUSE FAILURE RELAY
F.L	FAULT LOCATOR
PD	POLE DISCORDANCE
PSB	POWER SWING BLOCKING
50EF	END FAULT / SHORT ZONE PROTECTION
SOTF	SWITCH ON TO FAULT
STUB	STUB PROTECTION
TCS	TRIP CIRCUIT SUPERVISION RELAY
CCS	CLOSE CIRCUIT SUPERVISION RELAY
VSL	VOLTAGE SELECTION LOGIC
SBF	STANDBY EARTH FAULT PROTECTION

 ACTIVE ENERGY METER (BOTH DIRECTIONS)
(MULTI TARRIF, CLASS 0.2)

 REACTIVE ENERGY METER (BOTH DIRECTIONS)
(MULTI TARRIF, CLASS 0.2)

C.U.	CENTRAL UNIT
B.U.	BAY UNIT
BCPU	BAY CONTROL AND PROTECTION UNIT
POW	POINT ON WAVE SWITCH
BCR	BAY CONTROL ROOM

PANELS



<i>+RW</i>	CONTROL AND PROTECTION PANEL
<i>+W</i>	CONTROL PANEL
<i>+SV</i>	MARSHALING CUBICLE
<i>+M</i>	MEASUREMENT PANEL
<i>+BCU</i>	BAY CONTROL UNIT PANEL



FIBER OPTIC CABLE


MINIATURE CIRCUIT BREAKER

LEGEND

REFERENCE DRAWINGS									
DRAWINGS NO.:						TITLE:			
<input type="checkbox"/> APPROVED		<input type="checkbox"/> APPROVED WITH COMMENTS		<input type="checkbox"/> NOT APPROVED		<input type="checkbox"/> FOR INFORMATION			
DATE:						SIGNATURE/STAMP: PROJECT CONSULTANT			
 KETRACO <small>Kenya Electricity Transmission Company Limited</small>						KENYA ELECTRICITY TRANSMISSION COMPANY LTD			
 COLENCO <small>Innovation for sustainable future</small>						COLENCO CONSULTING LIMITED			
PROJECT:									
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).									
PROJECT NO.									
DRAWING NO.		NAME:		DATE:		PROJECT NO:			
PREPARED:		NIL				RUMURUTI 132/33KV SUBSTATION			
DRAWN:		F.J		19/05/2025		TITLE			
CHECKED:		V.JOSHI		19/05/2025					
APPROVED:		S.DESHMUKH		19/05/2025		PSLD LEGEND			
REVISIONS									
NO. NAME DATE									
SCALE: 1:600		DWG NO.						REV.:	