

Additional Supplementary Information

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1. SAMPLE SIGNAL LIST

The sample signals provided as Table 1, for reference only.

Table 1: Sample Signal Lists.

COMMON SIGNALS
AC SUPPLY HEATING, LIGHTING & SOCKET 110V DC CABINET
110V DC SUPPLY FROM BATTERY CHARGER 1
110V DC SUPPLY VOLTAGE MEASURING BB1
110V DC SUPPLY FROM BATTERY CHARGER 2
110V DC SUPPLY VOLTAGE MEASURING BB2
110V DC SUPPLY TFO & OLTC
110V DC SUPPLY RTU
110V DC SUPPLY BUSBAR PANEL
110V DC SUPPLY FEEDER(S) PANEL(S) MPR 1 & MPR 2
110V DC SUPPLY FEEDER(S) PANEL(S) CLOSE & TRIP CIRCUITS
110V DC SUPPLY HV SIDE TRANSFORMER(S) PANEL(S) MPR 1 & MPR 2
110V DC SUPPLY HV SIDE TRANSFORMER(S) PANEL(S) CLOSE & TRIP CIRCUITS
110V DC SUPPLY LV SIDE TRANSFORMER(S) PANEL(S) MPR 1 & MPR 2
110V DC SUPPLY LV SIDE TRANSFORMER(S) PANEL(S) CLOSE & TRIP CIRCUITS
110V DC SUPPLY HV LINE(S) PANEL(S) MPR 1 & MPR 2
110V DC SUPPLY HV LINE(S) PANEL(S) CIRCUITS
110V DC SUPPLY BUSBAR(S) CB, DS'S & DSES
110V DC SUPPLY HV LINE(S) CB, DS'S & DSES
110V DC SUPPLY HV SIDE TRANSFORMER(S) PANEL(S)CB & DS
110V DC SUPPLY LV SIDE TRANSFORMER(S) PANEL(S)CB & DS'S
110V DC SUPPLY FEEDER(S) CB, DS'S & DSES
AC SUPPLY HEATING LIGHTING & SOCKET 48V DC CABINET
48V DC SUPPLY FROM BATTERY CHARGER1
48V DC SUPPLY VOLTAGE MEASURING BB1
48V DC SUPPLY FROM BATTERY CHARGER2
48V DC SUPPLY VOLTAGE MEASURING BB2
48V DC SUPPLY 1 RTU

COMMON SIGNALS
48V DC SUPPLY MULTIPLEXER PANEL
NORMAL EMERGENCY SWITCH-OVER
110V DC SUPPLY VOLTAGE MEASURING
AC SUPPLY HEATING, LIGHTING & SOCKET AC
AC SUPPLY HV MARSHALLING KIOSKS CABINETS
AC SUPPLY FEEDERS MARSHALLING KIOSKS CABINETS
AC SUPPLY HV PROTECTION CABINETS
AC SUPPLY FEEDERS PROTECTION CABINETS
AC SUPPLY HEATING, LIGHTING & SOCKET AC/48VDC/110VDC CABINETS
AC SUPPLY HEATING & LIGHTING COMMUNICATION CABINETS
AC SUPPLY TRANSFORMERS & OLTC
AC SUPPLY FIRE ALARM PANEL
AC SUPPLY CONTROL BUILDING & GUARD HOUSE
AC SUPPLY 48V DC BATTERY CHARGER 1
AC SUPPLY 48V DC BATTERY CHARGER 2
AC SUPPLY 110V DC BATTERY CHARGER1
AC SUPPLY 110V DC BATTERY CHARGER 2
ETHERNET SWITCH(ES) STATUS
GPS STATUS
DIESEL GENERATOR FUEL LOW
DIESEL GENERATOR BATTERY VOLTAGE LOW

BUSBAR SIGNALS
ALARMS
BUSBAR LINE CIRCUIT BREAKER FAILURE STAGE 1 TRIP (ALL CONNECTED LINES)
BUSBAR TRANSFORMER CIRCUIT BREAKER FAILURE STAGE 1 TRIP (ALL CONNECTED TRANSFORMERS)
BUSBAR BUS 1 DIFFERENTIAL ALARM
BUSBAR BUS 2 DIFFERENTIAL ALARM
BUSBAR CHECKZONE DIFFERENTIAL PROTECTION TRIP

BUSBAR BUS 1 DIFFERENTIAL PROTECTION TRIP
BUSBAR BUS 2 DIFFERENTIAL PROTECTION TRIP
BUSBAR BUS 1 DIFFERENTIAL OUT
BUSBAR BUS 2 DIFFERENTIAL OUT
BUSBAR BUS 1 BREAKER FAILURE OUT
BUSBAR BUS 2 BREAKER FAILURE OUT
BUSBAR TRANSFORMER START CBF 3 PHASE (ALL CONNECTED TRANSFORMERS)
BUSBAR LINE START CBF 3 PHASE (ALL CONNECTED LINES)
BUSBAR RELAY FAIL
BUSBAR RELAY COMMUNICATION FAIL
INDICATIONS
BUSBAR LINE DISCONNECTOR POSITION (FOR ALL CONNECTED LINES)
BUSBAR BAY TRANSFORMER DISCONNECTOR POSITION (FOR ALL CONNECTED TRANSFORMERS)
BUSBAR AWENDO CIRCUIT BREAKER 105 POSITION
BUSBAR LINE CIRCUIT BREAKER 205 POSITION (ALL CONNECTED LINES)
BUSBAR TRANSFORMER CIRCUIT BREAKER POSITION (ALL CONNECTED TRANSFORMERS)
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BUSBAR LINE CURRENT PHASE B (ALL CONNECTED LINES)
BUSBAR TRANSFORMER CURRENT PHASE B (ALL CONNECTED TRANSFORMERS)

HV LINE SIGNALS
ALARMS
LINE CIRCUIT BREAKER SF6 ALARM
LINE CIRCUIT BREAKER SF6 OPERATING LOCKOUT
LINE CIRCUIT BREAKER CLOSING LOCKOUT DRIVE
LINE CIRCUIT BREAKER POLE DISCREPANCY
LINE CIRCUIT BREAKER PROTECTIVE MOTOR SWITCH TRIP
LINE GROUND DISTANCE ZONE 3 TRIP
LINE CIRCUIT BREAKER HEATING FAILURE
LINE DISCONNECTOR(S) MOTOR PROTECTION TRIP

HV LINE SIGNALS
LINE DISCONNECTOR (S)HEATING FAILURE
LINE BCPV VT SUPPLY FAILURE
LINE CIRCUIT BREAKER 105 BLOCK CLOSE
LINE TRIP CIRCUIT 1 FAILURE
LINE TRIP CIRCUIT 2 FAILURE
LINE MCIRCUIT BREAKER DISCONNECTOR SUPPLY FAILURE
LINE VOLTAGE TFO SIGNAL ENERGY METER FAIL
LINE MCIRCUIT BREAKER VT REFERENCE SIGNAL SYNCHROCHECK FAIL
LINE SYNCHROCHECK ON
LINE SYNCHROCHECK OVERRIDE
LINE INTERLOCK OVERRIDE
LINE PHASE OVERCURRENT TRIP
LINE BCPV GENERAL TRIP
LINE EARTH FAULT TRIP
LINE SYNCHROCHECK OK
LINE F101 DISTANCE PROTECTION INTERNAL FAILURE
LINE MAIN PROTECTION 2 SUPPLY FAILURE
LINE VT SIGNAL LINE DIFFERENTIAL PROTECTION FAILURE
LINE CIRCUIT BREAKERF STAGE 2 FOR DTT
LINE DIFFERENTIAL TRIP
LINE PHASE DISTANCE ZONE 1 TRIP
LINE PHASE DISTANCE ZONE 2 TRIP
LINE GROUND DISTANCE ZONE 1 TRIP
LINE GROUND DISTANCE ZONE 2 TRIP
LINE PHASE UNDERVOLTAGE 1 TRIP
LINE PHASE OVERVOLTAGE STAGE 1 ALARM
LINE PHASE OVERVOLTAGE TRIP STAGE 2
LINE PHASE OVERVOLTAGE TRIP STAGE 3 / DTT SENT
LINE VT FUSE FAIL
LINE PHASE OVERCURRENT TRIP

HV LINE SIGNALS
LINE EARTH FAULT TRIP
LINE DIFFERENTIAL PROTECTION CH1 FAIL
LINE DIFFERENTIAL PROTECTION CH2 FAIL
LINE CIRCUIT BREAKER TRIP 3 PHASE TC1
LINE CIRCUIT BREAKER TRIP 3 PHASE TC2
LINE PHASE OVERVOLTAGE LEVEL 1 TRIP
LINE PHASE OVERVOLTAGE LEVEL 2 TRIP
LINE PHASE UNDERVOLTAGE LEVEL 1 TRIP
LINE SWITCH ONTO FAULT Z2
LINE DIFFERENTIAL PROTECTION RELAY INTERNAL FAILURE
LINE BCPU INTERNAL FAILURE
LINE MAIN PROTECTION 1 SUPPLY FAILURE
LINE CIRCUIT BREAKER HEATING AND LIGHTING TRIP
LINE CIRCUIT BREAKERF STAGE 2 FOR DTT
LINE VT SIGNAL DISTANCE PROTECTION FAILURE
LINE CIRCUIT BREAKER BLOCK AUTORECLOSE
LINE CIRCUIT BREAKER AUTORECLOSE INITIATE
LINE CIRCUIT BREAKER AUTORECLOSE SWITCH OFF
LINE CIRCUIT BREAKER AUTORECLOSE SWITCH 1P
LINE CIRCUIT BREAKER AUTORECLOSE SWITCH 1P+3P
LINE PERMISSIVE RECEIVE 21L
LINE PERMISSIVE RECEIVE 67N
LINE PERMISSIVE SEND 21L
LINE PERMISSIVE SEND 67N
LINE DTT RECEIVE FROM LINE SS
LINE DTT SEND TO LINE SS
LINE GROUND DISTANCE ZONE 1 TRIP
LINE GROUND DISTANCE ZONE 2 TRIP
LINE GROUND DISTANCE ZONE 3 TRIP
LINE GROUND DISTANCE ZONE 4 TRIP

HV LINE SIGNALS
LINE PHASE DISTANCE ZONE 1 TRIP
LINE PHASE DISTANCE ZONE 2 TRIP
LINE PHASE DISTANCE ZONE 3 TRIP
LINE PHASE DISTANCE ZONE 4 TRIP
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LINE CIRCUIT BREAKER STATUS
LINE DISCONNECTOR(S) STATUS
LINE EARTH SWITCH STATUS
LINE CIRCUIT BREAKER LOCAL/REMOTE STATUS
LINE DISCONNECTOR LOCAL/REMOTE STATUS
LINE DISCONNECTOR 104 IN REMOTE
LINE BCU RELAY LOCAL/REMOTE STATUS
LOCKOUT RELAY STATUS
ANALOGUES
LINE VOLTAGE BC PHASE
LINE CURRENT B PHASE
LINE MW
LINE MVA _r
LINE MVA
LINE POWER FACTOR
LINE HZ
LINE FAULT DISTANCE IN KM
COMMANDS
LINE CIRCUIT BREAKER OPEN/CLOSE COMMAND
LINE DISCONNECTOR(S) OPEN/CLOSE COMMAND
LOCKOUT RELAY REMOTE RESET COMMAND

TRANSFORMER HV SIDE
ALARMS
TRANSFORMER HV CIRCUIT BREAKER SF6 ALARM

TRANSFORMER HV SIDE
TRANSFORMER HV CIRCUIT BREAKER SF6 OPERATING LOCKOUT
TRANSFORMER HV AC SUPPLY FAIL
TRANSFORMER HV CIRCUIT BREAKER POLE DISCREPANCY
TRANSFORMER HV CIRCUIT BREAKER PROTECTIVE MOTOR SWITCH TRIP
TRANSFORMER HV CIRCUIT BREAKER DRIVE LOCKOUT / EXCESSIVE MOTOR RUNNING
TRANSFORMER HV CIRCUIT BREAKER HEATING FAILURE
TRANSFORMER HV DISCONNECTOR(S) MOTOR PROTECTION TRIP
TRANSFORMER HV DISCONNECTOR(S) HEATING FAILURE
TRANSFORMER HV TRIP CIRCUIT 1 FAILURE
TRANSFORMER HV TRIP CIRCUIT 2 FAILURE
TRANSFORMER HV DISCONNECTOR SUPPLY FAILURE
TRANSFORMER HV INTERLOCK OVERRIDE
TRANSFORMER HV MAIN PROTECTION 1 SUPPLY FAILURE
TRANSFORMER HV DIFFERENTIAL PROTECTION INTERNAL FAILURE
TRANSFORMER HV PHASE OVERCURRENT TRIP
TRANSFORMER HV BCPU GENERAL TRIP
TRANSFORMER HV EARTH FAULT TRIP
TRANSFORMER HV LOCKOUT RELAY TRIP
TRANSFORMER HV MAIN PROTECTION 2 SUPPLY FAILURE
TRANSFORMER HV BCPU INTERNAL FAILURE
TRANSFORMER HV MINIMUM OIL LEVEL TRANSFORMER ALARM
TRANSFORMER HV MAXIMUM OIL LEVEL TRANSFORMER ALARM
TRANSFORMER HV MINIMUM OIL LEVEL OLTC ALARM
TRANSFORMER HV MAXIMUM OIL LEVEL OLTC ALARM
TRANSFORMER HV BUCHHOLZ ALARM
TRANSFORMER HV OIL TEMPERATURE INDICATOR
TRANSFORMER HV WINDING TEMPERATURE HV ALARM
TRANSFORMER HV WINDING TEMPERATURE LV ALARM
TRANSFORMER HV BUCHHOLZ TRIP
TRANSFORMER HV OIL TEMPERATURE TRIP

TRANSFORMER HV SIDE
TRANSFORMER HV WINDING TEMPERATURE HV TRIP
TRANSFORMER HV WINDING TEMPERATURE LV TRIP
TRANSFORMER HV PROTECTION RELAY OLTC TRIP
TRANSFORMER HV PRESSURE RELIEF RELAY OLTC TRIP
TRANSFORMER HV MECHANICAL TRANSFORMER TRIP OPERATED
TRANSFORMER HV GENERAL TRIP TO K86-1
TRANSFORMER HV GENERAL TRIP - CIRCUIT BREAKERF TO BB
TRANSFORMER HV CIRCUIT BREAKER FAILURE INITIATE TO MV CIRCUIT BREAKER
TRANSFORMER HV CIRCUIT BREAKER 1T0 TRIP 3 PHASE TC1
TRANSFORMER HV CIRCUIT BREAKER 1T0 TRIP 3 PHASE TC2
TRANSFORMER HV TRANSFOMER PERCENTAGE DIFFERENTIAL TRIP
TRANSFORMER HV TRANSFOMER INSTANTANEOUS DIFFERENTIAL TRIP
TRANSFORMER HV LOW IMPEDANCE RESTRICTED EARTH FAULT TRIP
TRANSFORMER HV (MV TRANSFORMER) CIRCUIT BREAKER FAILURE DIRECT TRIP INPUT
INDICATIONS
TRANSFORMER HV CIRCUIT BREAKER OPEN/CLOSE STATUS
TRANSFORMER HV DISCONNECTOR(S)OPEN/CLOSE STATUS
TRANSFORMER HV CIRCUIT BREAKER LOCAL/REMOTE STATUS
TRANSFORMER HV DISCONNECTOR(S) LOCAL/REMOTE STATUS
TRANSFORMER HV BCU LOCAL/REMOTE STATUS
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TRANSFORMER HV VOLTAGE BC PHASE
TRANSFORMER HV CURRENT B PHASE
TRANSFORMER HV MW
TRANSFORMER HV MVA _r
TRANSFORMER HV MVA
TRANSFORMER HV POWER FACTOR
TRANSFORMER HV HZ
COMMANDS
TRANSFORMER HV CIRCUIT BREAKER OPEN/CLOSE COMMAND

TRANSFORMER HV SIDE

TRANSFORMER HV DISCONNECTOR(S) OPEN/CLOSE COMMAND

TRANSFORMER LV SIDE**ALARMS**

TRANSFORMER MV AVR INTERNAL FAILURE

TRANSFORMER MV TRIP CIRCUIT 1 FAILURE

TRANSFORMER MV TRIP CIRCUIT 2 FAILURE

TRANSFORMER MV INTERLOCK OVERRIDE

TRANSFORMER MV MAIN PROTECTION 2 SUPPLY FAILURE

TRANSFORMER MV DISCONNECTOR(S) SUPPLY FAILURE

TRANSFORMER MV VT SIGNAL ENERGY METER FAILURE

TRANSFORMER MV VT SIGNAL BCU FAILURE

TRANSFORMER MV VT AVR INTERNAL FAILURE

TRANSFORMER MV HEATING, LIGHTING & SOCKET FAILURE

TRANSFORMER MV CIRCUIT BREAKER SF6 ALARM (0,54MPA)

TRANSFORMER MV CIRCUIT BREAKER SF6 OPERATING LOCKOUT (0,51MPA)

TRANSFORMER MV CIRCUIT BREAKER CLOSE LOCKOUT DRIVE

TRANSFORMER MV CIRCUIT BREAKER MOTOR PROTECTION TRIP

TRANSFORMER MV CIRCUIT BREAKER EXCESSIVE MOTOR RUNNING

TRANSFORMER MV CIRCUIT BREAKER HEATING FAILURE

TRANSFORMER MV DISCONNECTOR(S) MOTOR PROTECTION TRIP

TRANSFORMER MV DISCONNECTOR(S) HEATING FAILURE

TRANSFORMER MV FEEDERS CIRCUIT BREAKER FAILURE STAGE 2 FROM OUTGOING FEEDERS

TRANSFORMER MV CIRCUIT BREAKER FAILURE INITIATE FROM HV TRANSFORMER

TRANSFORMER MV CIRCUIT BREAKER FAILURE STAGE 2 FROM 132KV BB BAY

TRANSFORMER MV VT 33KV BUSBAR FAILURE

TRANSFORMER MV PHASE OVERCURRENT TRIP

TRANSFORMER MV BCU GENERAL TRIP

TRANSFORMER MV EARTH FAULT TRIP

TRANSFORMER MV CIRCUIT BREAKERF INITIATE TO RT01

TRANSFORMER MV AVR UNDER VOLTAGE BLOCK
TRANSFORMER MV AVR OVER VOLTAGE BLOCK
TRANSFORMER MV AVR OVER CURRENT BLOCK
TRANSFORMER MV TAP CHANGER MOTOR DRIVE RUNNING
TRANSFORMER MV TAP CHANGER CC FAILURE
TRANSFORMER MV TAP CHANGER HEATING FAILURE
TRANSFORMER MV TAP CHANGER VOLTAGE MONITORING FAILURE
TRANSFORMER MV MAIN PROTECTION 1 SUPPLY FAILURE
TRANSFORMER MV BCU INTERNAL FAILURE
INDICATIONS
TRANSFORMER HV CIRCUIT BREAKER OPEN/CLOSE STATUS
TRANSFORMER HV DISCONNECTOR(S) OPEN/CLOSE STATUS
TRANSFORMER MV CIRCUIT BREAKER LOCAL/REMOTE STATUS
TRANSFORMER MV DISCONNECTOR(S) LOCAL/REMOTE STATUS
TRANSFORMER MV BCU IN LOCAL STATUS
TRANSFORMER MV AVR IN LOCAL / REMOTE
TRANSFORMER MV AVR IN MANUAL / AUTOMATIC
TRANSFORMER MV AVR IN INDEPENDANT / PARALLEL
ANALOGUES
TRANSFORMER MV VOLTAGE BC PHASE
TRANSFORMER MV CURRENT B PHASE
TRANSFORMER MV MW
TRANSFORMER MV MVA _r
TRANSFORMER MV MVA
TRANSFORMER MV POWER FACTOR
TRANSFORMER MV HZ
TRANSFORMER MV TAP CHANGER TAP POSITION
COMMANDS
TRANSFORMER MV CIRCUIT BREAKER 1T0 COMMAND
TRANSFORMER MV DISCONNECTOR(S) 1T3 COMMAND
AVR MANUAL / AUTOMATIC CONTROL

AVR INDEPENDENT / PARALLEL OPERATION

TAP POSITION RAISE / LOWER

FEEDERS SIGNALS

ALARMS

FEEDER BCU INTERNAL FAILURE

FEEDER MAIN PROTECTION 2 SUPPLY FAILURE

FEEDER VT SIGNAL DISTANCE PROTECTION FAILURE
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FEEDER AUTORECLOSE SWITCH ON

FEEDER AUTORECLOSE SWITCH OFF

FEEDER BLOCK AUTORECLOSER

FEEDER AUTORECLOSE INITIATE FROM BCU

FEEDER CIRCUIT BREAKER 1L5 TRIP TC1

FEEDER CIRCUIT BREAKER 1L5 TRIP TC2

FEEDER CIRCUIT BREAKER 1L5 AUTORECLOSE
--

FEEDER PHASE DISTANCE ZONE 1 TRIP

FEEDER PHASE DISTANCE ZONE 2 TRIP

FEEDER GROUND DISTANCE ZONE 1 TRIP

FEEDER GROUND DISTANCE ZONE 2 TRIP

FEEDER MAIN PROTECTION 1 SUPPLY FAILURE

FEEDER DISTANCE PROTECTION INTERNAL FAILURE

FEEDER INITIATE CIRCUIT BREAKERF DISTANCE PROTECTION
--

FEEDER HEATING & LIGHTING SUPPLY FAILURE
--

FEEDER VT SIGNAL BCU FAILURE

FEEDER BCU INTERLOCK OVERRIDE

FEEDER CIRCUIT BREAKER SF6 ALARM (0,54MPA)
--

FEEDER CIRCUIT BREAKER SF6 TRIP LOCK OUT (0,51MPA)
--

FEEDER CIRCUIT BREAKER CLOSE LOCKOUT DRIVE
--

FEEDER CIRCUIT BREAKER EXCESSIVE MOTOR RUNNING
--

FEEDER CIRCUIT BREAKER MOTOR PROTECTION TRIP
--

FEEDER CIRCUIT BREAKER HEATING FAILURE
--

FEEDER DISCONNECTOR(S)(S) MOTOR PROTECTION TRIP

FEEDER DISCONNECTOR(S) (S)HEATING FAILURE

FEEDER DISCONNECTOR(S) SUPPLY FAILURE

FEEDER VT SIGNAL ENERGY METER FAILURE
FEEDER TRIP CIRCUIT 1 FAILURE
FEEDER TRIP CIRCUIT 2 FAILURE
FEEDER PHASE OVERCURRENT TRIP
FEEDER BCU GENERAL TRIP
FEEDER EARTH FAULT TRIP
FEEDER TRANSFORMER MV CIRCUIT BREAKERF STAGE 2 TRIP
FEEDER LOCKOUT RELAY STATUS
INDICATIONS
FEEDER CIRCUIT BREAKER OPEN/CLOSE STATUS
FEEDER DISCONNECTOR(S)OPEN/CLOSE STATUS
FEEDER EARTH SWITCH OPEN/CLOSE STATUS
FEEDER CIRCUIT BREAKER LOCAL/REMOTE STATUS
FEEDER DISCONNECTOR(S) LOCAL/REMOTE STATUS
FEEDER BCU IN LOCAL/REMOTE STATUS
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FEEDER CURRENT B PHASE
FEEDER MW
FEEDER MVA _r
FEEDER MVA
FEEDER POWER FACTOR
FEEDER HZ
FEEDER FAULT DISTANCE IN KM
COMMANDS
FEEDER CIRCUIT BREAKER OPEN/CLOSE COMMAND
FEEDER DISCONNECTOR(S)OPEN/CLOSE COMMAND
FEEDER LOCKOUT RELAY REMOTE RESET COMMAND

2. COLOR CODES AND BRANDING

The following requirements for color, painting and branding shall be maintained.

Table 2: Paint Codes Roofing Sheets Suppliers.

Supplier	Roofing Sheet	Walls, Doors, Skirting, Gutters Paints	Paint	Contact person
Mabati Rolling Mills (SAFAL GROUP)	KETRACO Green Box profile sheets. Must make prior order of at least 3000m ² Alternatively use Forest Green	-	Both Galaxy and Sadolin paint will provide the KETRACO Green	Ask for Steve Kiruthi 0735 511196
Rafiki Mabati (City Engineering works Ltd.)	KETRACO Green Box profile sheets. Alternatively use Forest Green	-	Both Galaxy and Sadolin paint will provide the KETRACO Green	Ask for Jamil 0701 100001
Maisha Mabati (Devki Group)	KETRACO Green Box profile sheets. Must make prior order of at least 5 tonnes Alternatively use Forest Green	-	Both Galaxy and Sadolin paint will provide the KETRACO Green	Ask for Pandheet 0756 020000
Galaxy Paints	-	Ask for: Green – KETRACO Green Red – KETRACO Red Grey – KETRACO Grey	Manufactures paints and supplies MRM, RM, MM.	Ask for Tom 0722 358654
Sadolin Paints	-	Ask for: Green – KETRACO Green Red – KETRACO Red Grey – KETRACO Grey	Manufactures paints and supplies MRM, RM, MM.	Ask for Juliet 0732 888826
Duracoat paints	-	Ask for: Green – Beaumonde 2623C Red - Adventure 2189C Grey – Color Plus C138	Manufactures paints	-
Crown paints	-	Ask for: Green – Climbing vine 102A Red – Geranium 04E53 Grey – Granite 00A09	Manufactures paints	-

Substation Outdoor Recommended Colors illustrated in Figure 1 and Figure 22.

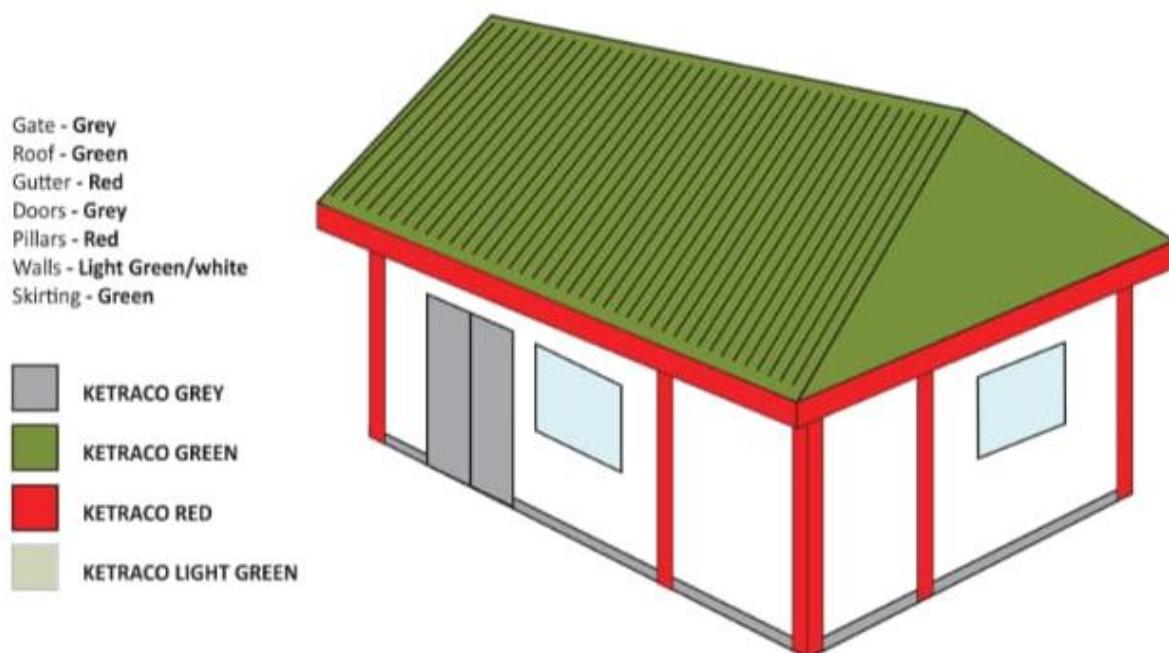


Figure 1: Substation Building Recommended Colors



Figure 2: Substation Main Gate Recommended Colors and Branding.

Substation signs contents and dimensions shall be according to Figure3 and Figure4.



Figure 3: Substation Sign Single Sided (20 x 10.6 Ft).

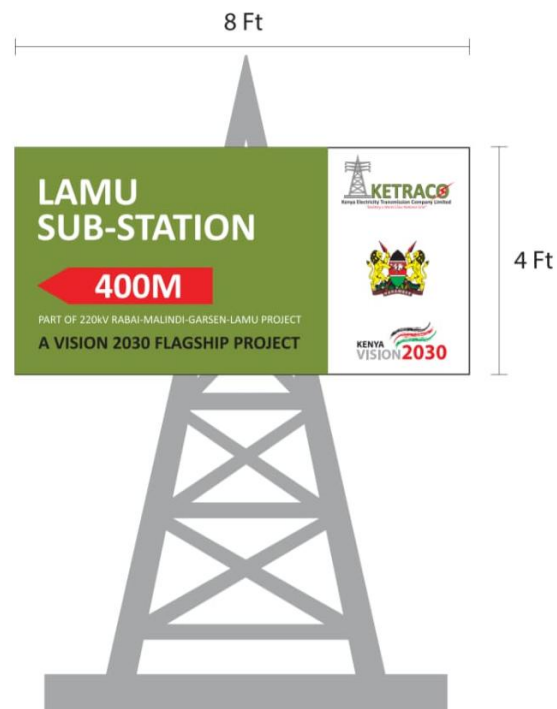


Figure 4: Directional Sign Double Sided (8 x 4).