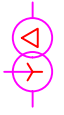





















COVER

1



LEGEND

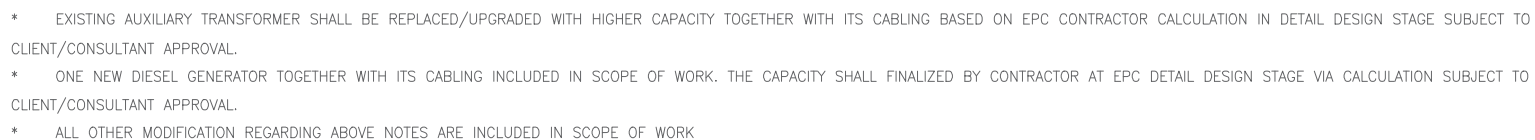
	AUXILIARY TRANSFORMER		VOLTMETER		ENERGY METER		REVISION MARK
	MCCB 4P WITH DEDICATED O/C PROTECTION		AMMETER		VOLTAGE SELECTOR SWITCH		AMMETER SELECTOR SWITCH
	MCCB PLUG-IN TYPE		CURRENT TRANSFORMER		UNDER(ZERO) VOLTAGE RELAY		PHASE SEQUENCE RELAY
	DROP FUSE		SIGNAL LAMP		INSTANTANEOUS AND INVERSE TIME OVER CURRENT RELAY		MINIATURE CIRCUIT BREAKER
			EARTH		INSTANTANEOUS AND INVERSE EARTH FAULT RELAY		
			L/S/H LIGHTING/SOCKET/HEATING		OVER VOLTAGE RELAY		

NOTE:

- 1- THE QUANTITIES, SIZES AND RATINGS ARE PRELIMINARY AND SHALL BE FINALIZED AT DETAIL DESIGN STAGE BY EPC CONTRACTOR SUBJECT TO CLIENT/CONSULTANT APPROVAL.
- 2- AT LEAST 20% SPARE OF EACH FEEDER TYPE SHALL BE CONSIDERED IN ADDITION TO FUTURE FEEDERS.
- 3- ALL MCCBs/MCBs FOR FUTURE EXTENSION WITH CORRESPONDENT SPACE SHALL BE CONSIDERED/SUPPLIED IN MAIN/DISTRIBUTION LVAC PANELS.
- 4- ALL CIRCUIT BREAKERS SHALL BE EQUIPPED WITH AUXILIARY CONTACT(s).
- 5- LVAC SINGLE LINE DIAGRAM SHALL BE SHOWN IN OPERATOR WORKSTATION WITH DYNAMIC COLORS AND ALL MEASURING VALUES(VOLTAGE, CURRENT, REACTIVE POWER, ACTIVE POWER, FREQUENCY, POWER FACTOR, ENERGY, TEMPERATURE AND ETC) SHALL BE MONITORED THROUGH HMI AND ALL NECESSARY EQUIPMENT SUCH AS TRANSDUCERS SHALL BE CONSIDERED.
- 6- ALL REQUIRED MODIFICATION OF EXISTING LVAC SYSTEM INCLUDING WIRING AND ETC SHALL BE CONSIDERED.
- 7- THE CONTRACTOR SHALL PROVIDE SUB-DISTRIBUTION BOARDS AS REQUIRED SUBJECT TO CLIENT/CONSULTANT APPROVAL.
- 8- SIZE OF ALL CABLES SHALL BE DETERMINED AFTER CALCULATION AT DESIGN STAGE.
- 9- THE EXISTING PHILOSOPHY SHOULD BE FOLLOWED ON WIRING AND DISTRIBUTION.
- 10- ALL SIGNALS REQUIRED TO CONTROL THE AC/DC SYSTEM SHOULD BE CONSIDERED BY SAS.
- 11- THE SINGLE LINE DIAGRAM SHALL BE IN BLUE (NO. 166) COLOR FOR 0.415KV VOLTAGE LEVEL.
- 12- THE CUBICLES SHALL BE COMPLETELY SELF-SUPPORTING, MADE OF A REQUIRED NUMBER OF STANDARDIZED, PREFABRICATED, VERTICAL SECTIONS BOLTED TOGETHER TO FORM INDOOR METAL CLAD, DUST-PROOF RIGID UNIT, DEGREE OF PROTECTION IP51. THE CUBICLES SHALL BE FREE STANDING, EQUIPPED WITH BOTTOM FRAMES SUITABLE FOR BOLTING TO THE FLOOR. SHEET STEEL THICKNESS SHALL NOT BE LESS THAN 2 mm.
- 13- THE INTERLOCK SYSTEM SHALL BE COMPLETED/MODIFIED AND RETESTED TO MAKE THE ENTIRE SYSTEM WORK PROPERLY.

LEGEND & NOTE

REFERENCE DRAWINGS			
DRAWING NO.	FILE		
<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED WITH COMMENTS <input type="checkbox"/> NOT APPROVED <input type="checkbox"/> FOR INFORMATION DATE: _____ SIGNATURE: _____ PROJECT CONSULTANT: _____			
 KETRACO <small>Kenya Electricity Transmission Company Limited</small>		KENYA ELECTRICITY TRANSMISSION COMPANY LTD	
 COLENCO <small>Consulting & Engineering Services</small>		COLENCO CONSULTING LIMITED	
PROJECT: KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP)			
PROJECT DRAWING NO. _____			
PREPARED:	NAME: NL	DATE: 27/05/2024	PROJECT NO. RUMURUTI 132/33KV SUBSTATION
DRAWN:	J	27/05/2024	FILE
CHECKED:	V. JOSHI	27/05/2024	
APPROVED:	ELDERHAUS	27/05/2024	
LEGEND & NOTE			
REVISIONS			
NO.	NAME	DATE	
SCALE:	1:600	DWG NO.	REV.:



4

REFERENCE DRAWINGS											
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DATE: _____				SIGNATURE/STAMP: _____						PROJECT CONSULTANT	
				KENYA ELECTRICITY TRANSMISSION COMPANY LTD							
				COLENCO CONSULTING LIMITED							
PROJECT: KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).											
PROJECT DRAWING NO.				PROJECT NO.							
PREPARED: NEL DRAWN: J.J CHECKED: V.JOSIA APPROVED: S.DENAHUKU				RUMURUTI 132/33KV SUBSTATION TITLE: LVAC SINGLE LINE DIAGRAM EXTENSION							
NO. NAME DATE _____ _____ _____ _____ _____				RUMURUTI-LVAC-SLD-001							
SCALE: 1/600				DWG NO.				REV.:			