



Content:		GENERAL VIEW	
Project type:	Reconstruction	Discipline:	Electrical
Project No.:	8333-54-16-0010	TD Designation:	Rev: 3
Date:	12.05.2016.	Book:	Sheet: 10
Format:	A3	Scale:	Next Sheet: -

Facility: MAIN STATION SUPPLIES SWITCHBOARD  
 Project: REFURBISHMENT OF GENERATING UNITS & AUXILIARIES AT KAMBURU HYDRO POWER STATION  
 Customer: **KONCAR**  
 POWER PLANT AND ELECTRIC TRACTION ENGINEERING INC. ZAGREB - REPUBLIC OF CROATIA  
**KenGen**  
 Kenya Electricity Generating Company Limited

The cubicle dimensions refer to the frame and do not include enclosure parts and external mounting parts. Enclosure parts are within the necessary distances to walls. For necessary distances to walls refer to operating instructions!

TECHNICAL DATA:

Cubicle height (mm)	2200
Base height (mm)	200
Required width (mm)	5000
Plant depth (mm)	800
Estimated plant weight (kg)	3142
Nominal voltage (V)	AC 415V
Frequency (Hz)	50
Ambient temperature (C)	40
Degree of protection	IP54
Insulated MBB (L1-L3)	NO
Ventilation openings	NO
Bottom plate	YES
Design	Single front
Internal separation	4b
Color enclosure parts	RAL7035
Busbar system	L1-L3, PE, N
Main busbar position	top
Main busbar current (A)	1250
Rated busbar short-time withstand current low top (kA, 1s)	50
Cross section L1, L3 top	1x2x30x10
Cross section N top	1x2x20x5
Cross section PE	Bottom
Position PE MBB	YES
Cross-wiring compartment	Rear
Connection to plant	From the top
Cable entry	From the top

- \* WITHDRAWABLE COMPARTMENT
- \*\* WITHDRAWABLE AIR CIRCUIT BREAKER

- 1/1 SPARE
- 1/2 SPARE
- 1/3 110VDC BATTERY CHARGERS FEEDER 1
- 1/4 50VDC BATTERY CHARGERS FEEDER 1
- 1/5 DRAINAGE AND DEWATERING PUMP No.1
- 1/6 DRAINAGE AND DEWATERING PUMPS CONTROL
- 2/1 POWER HOUSE STATION AUX. DIST. BOARD FEEDER 1
- 2/2 CONTROL BUILDING AUXILIARY DIST. BOARD FEEDER 1
- 2/3 SPILLWAY CONTROL CENTER FEEDER 1
- 2/4 INTAKE CONTROL CENTER FEEDER 1
- 3 STATION TRANSFORMER No.2
- 4 DIESEL GENERATOR
- 5 STATION TRANSFORMER No.3
- 6 BUS COUPLER
- 7 LOCAL FEEDER TRANSFORMER
- 8 STATION TRANSFORMER No.1
- 9/1 POWER HOUSE STATION AUX. DIST. BOARD FEEDER 2
- 9/2 CONTROL BUILDING AUXILIARY DIST. BOARD FEEDER 2
- 9/3 SPILLWAY CONTROL CENTER FEEDER 2
- 9/4 INTAKE CONTROL CENTER FEEDER 2
- 10/1 SPARE
- 10/2 SPARE
- 10/3 110VDC BATTERY CHARGERS FEEDER 2
- 10/4 50VDC BATTERY CHARGERS FEEDER 2
- 10/5 DRAINAGE AND DEWATERING PUMP No.2
- 10/6 DRAINAGE AND DEWATERING PUMP No.3