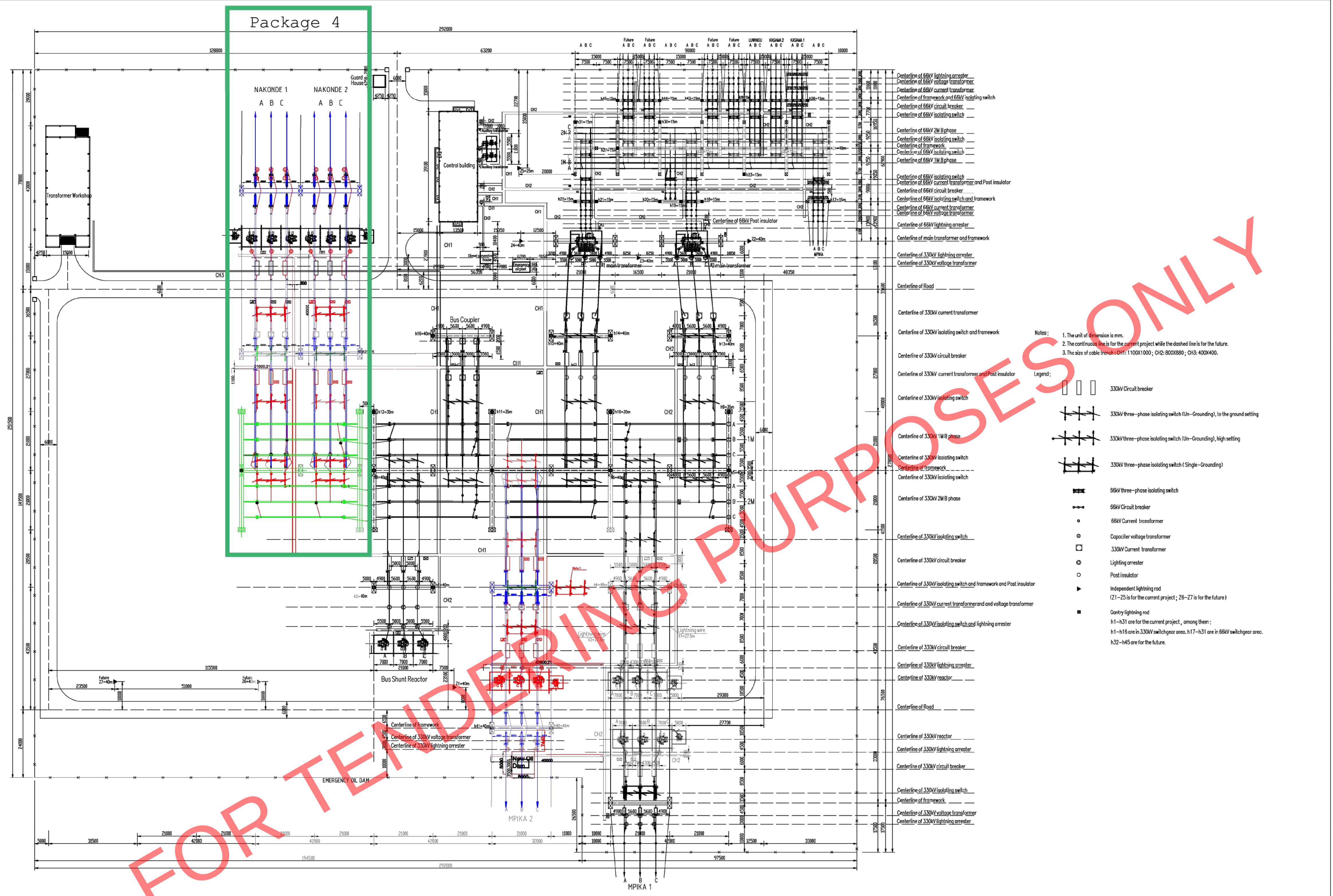




- Notes:
1. The unit of dimension is mm.
 2. The continuous line is for the current project while the dashed line is for the future.
 3. The size of cable trays: CH1: 1100X1000; CH2: 800X880; CH3: 400X400.
- Legend:
- 330V Circuit breaker
 - 330V three-phase isolating switch (Un-Grounding), to the ground setting
 - 330V three-phase isolating switch (Un-Grounding), high setting
 - 330V three-phase isolating switch (Single-Grounding)
 - 66kV three-phase isolating switch
 - 66kV Circuit breaker
 - 66kV Current transformer
 - Capacitor voltage transformer
 - 330kV Current transformer
 - Lighting arrester
 - Post insulator
 - Independent lightning rod (Z1-Z5 is for the current project; Z6-Z7 is for the future)
 - Country lightning rod
 - h1-h31 are for the current project, among them: h1-h16 are in 330kV switchgear area, h17-h31 are in 66kV switchgear area.
 - h32-h45 are for the future.

					CLIENT:		Package 4 SAPP (ZESCO)		WSP WSP Group Africa (Pty) Ltd Building C, Knighbridge, 33 Sloane Street, Bryanston, 2192 PO Box 98867 Sloane Park 2152 Tel: +27(0)11-361-1402 Fax: +27(0)11-361-1301 &l-bry@wspgroup.co.za					PROJECT: SAPP - ZTIP Phase 2 TITLE: KASAMA GA - PROPOSED LAYOUT					SCALE : 1:1250 DESIGN: AG PROJECT No: 48100008 COPYRIGHT RESERVED The content of this document is privileged and confidential and may not be disclosed or reproduced without the express authorisation of the author, being "WSP GROUP AFRICA (PTY) LTD"		CHECKED: MH AG DRAWN: AG DRAWING No: 48100008-KASAMA-GA CESA Consulting Engineers South Africa		APPROVED: DB 02/09/2020 REV: 2	
2	02/09/2020	AG.	CHANGES AS PER ZESCO COMMENTS	MH	DB																			
1	22/07/2020	AG.	ZESCO COMMENTS	MH	DB																			
0	23/06/2020	AG.	FIRST DRAFT	MH	DB																			
REV	DATE	BY	DESCRIPTION	CHK	APD																			
DRAWING STATUS:						PRELIMINARY																		
						If drawing status = construction, a signed copy of this drawing (either in hardcopy or electronic format) is available at the office of origin and at the office of issue.																		



Project Name
**Proposed Nakonde Stepdown
330/(132)66/11kV Substation**

Drawing Name		Kasama Substation Proposed Layout	
Document Status	Sheet Number	Scale	Paper Size
EXT	E102	NTS	A1
Drawing Number	PP-ZTIP-P04-ODSS-E102		
Revision Number	01		

Project Approval			
Drawn By	Civil Eng. In-Charge	Electrical Eng. In-Charge	Project Manager
C. Chundu	C. Chundu	Z. Sakala	H. Mulapani
Jun 2026	Jun 2026	Jun 2026	Jun 2026
Design Approval			
Designed By	Checked By	Approved By	
-	-	-	
Rev.	Description	Date	By
01	For Tendering Purposes Only	30/06/2026	C.C.
00	ZESCO Comments for Packages 2 and 3 - SWECC	21/02/2025	T.B.
Revisions			
01	Designed By	Checked By	Approved By
00	-	-	-
Rev.	C. Kabele	Z. Sakala	H. Mulapani