



### LEGEND

- D - Corresponds to Voltage Level 245 kV
- E - Corresponds to Voltage Level 145 kV
- H - Corresponds to Voltage Level 36 kV
- Scope of Works
- Existing Equipment
- -19/33 kV Power Cable

### 245 kV System Parameters

- Rated Frequency : 50 Hz
- Highest System Voltage : 245 kV
- Rated Lightning Impulse Withstand Voltage (Auto Transformer) : 1050 kV
- Rated Lightning Impulse Withstand Voltage (Other Equipment) : 1050 kV
- Rated Short Duration Power Frequency Withstand Voltage : 460 kV
- Maximum Fault Level for 1 s : 40 kA
- Creepage Distance : 25 mm/kV

### 145 kV System Parameters

- Rated Frequency : 50 Hz
- Highest System Voltage : 145 kV
- Rated Lightning Impulse Withstand Voltage (Auto Transformer) : 650 kV
- Rated Lightning Impulse Withstand Voltage (Other Equipment) : 650 kV
- Rated Short Duration Power Frequency Withstand Voltage : 275 kV
- Maximum Fault Level for 1 s : 40 kA
- Creepage Distance : 25 mm/kV

### 36 kV System Parameters

- Rated Frequency : 50 Hz
- Highest System Voltage : 36 kV
- Rated Lightning Impulse Withstand Voltage (Auto Transformer) : 170 kV
- Rated Lightning Impulse Withstand Voltage (Other Equipment) : 170 kV
- Rated Short Duration Power Frequency Withstand Voltage : 70 kV
- Maximum Fault Level for 1 s : 25 kA
- Creepage Distance : 25 mm/kV

DRAWING CONTROL					
REV.	REV. DATE	DESCRIPTION	CREATED	CHECKED	APPROVED
0	01.02.2022	FINAL AS BUILT STATUS	NRS	JJ	XW

  

EMPLOYER'S REPRESENTATIVE APPROVAL STAMP				
EMPLOYER:		<b>CEYLON ELECTRICITY BOARD</b> <b>SRI LANKA</b>		
CONTRACTOR:		<b>CHINT ELECTRIC CO., LTD.</b>		
CONTRACT NUMBER: CEB/AGM/TR/2016/CB/GPDEIIP2-1A				
PROJECT: GREEN POWER DEVELOPMENT AND ENERGY EFFICIENCY IMPROVEMENT INVESTMENT PROGRAMME (FRANCHE 2)				
PACKAGE 1: LOT 4 - CONSTRUCTION OF HAMBANTOTA 220/132kV GRID SUBSTATION & AUGMENTATION OF 132/33kV HAMBANTOTA GRID SUBSTATION				

  

NAME	DATE	ADB LOAN NO.	SCALE	NA	PAPER SIZE	AD REV.
CREATED	NRS	01.02.2022	DRAWING TITLE		HAMBANTOTA GRID SUBSTATION SINGLE LINE DIAGRAM	
CHECKED	JJ	01.02.2022	DWG.DOC NUMBER		HAM-EDB-001	
PROJ. MGR.	XW	01.02.2022	SCALE		SHEET NO. 01	
PRELIMINARY	CONSTRUCTION		DRAWING NUMBER		NO. OF SHEETS 01	