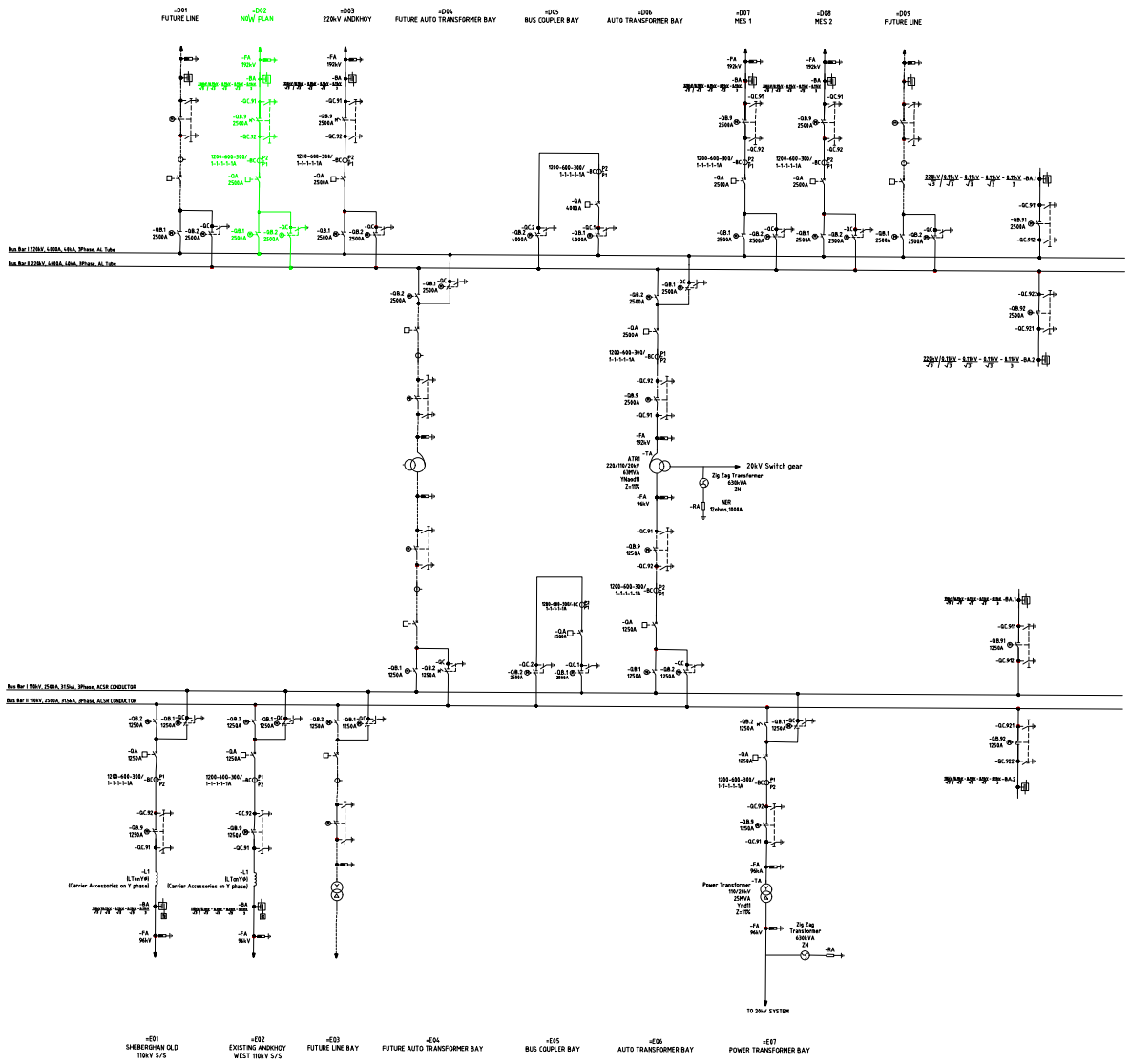

SWITCHYARD DATA		220kV	110kV
Standard Frequency	f	50Hz	50Hz
Short Circuit Duration	ts.c	3 sec	3 sec
Nominal Voltage	Un	220kV	110kV
Highest System Voltage	Um	245kV	123kV
Rated Short time Current	I"k3	40kA	31.5kA
Ambient Temperature (min/max)	ϑ	-25°C/50°C	-25°C/50°C
Rated Lightning Impulse	UrB	1050kV	550kV

NOTES:

- CT ratio shall be finalized after CT dimensioning and sizing.
- Designations of HV equipments are as per IEC 81346.
- Ratings of Earthing Transformer & NER are as per Tender Documents.

LEGEND:

---------- = Future

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	Surge Arrestor (-FA)		Circuit Breaker (-QA)		Line Trap (-L1)
	Power Transformer (-TA)		Disconnecter + Earthing Switch (QB.1+QC) (QB.2+QC)		Zig Zag Transformer
	Auto Transformer (-TA)		Disconnector Earthing Switch on both sides (QB.9+QC.911,QC.912) (QB.9+QC.921,QC.922)		Neutral Earthing Resistance (-RA)
	Current Transformer (-BC)		Coupling Capacitor Voltage Transformer (-BA)		Earthing Symbol
	Disconnector Switch (QB)		Capacitor Voltage Transformer (-BA)		

REFERENCE DOCUMENTS:

S.NO	DRAWING TITLE	DRAWING NO.
01	Tender SLD	TKM-S-001

Scale N.T.S | = | + | /

DABS
Sheberghan

Employer : DABS
Engineer : SMEC
Contractor : SIEMENS

Rev.	Remarks	Date	Name		
				Date	03-05-2016
				Drawn	Zehra
				Appr.	Umair/Ravish
				Norm	X. Bharucha

SIEMENS

Drawing Title
Single Line Diagram
220kV/110kV AIS Substation

(1) G76001-A5194-S005-0

Sheet 1-1

AKZ: SHEBERGHAN

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