

TABLE-1: 220kV EQUIPMENT

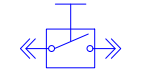
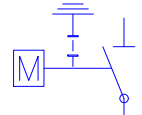
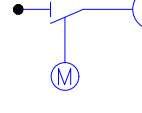
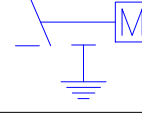
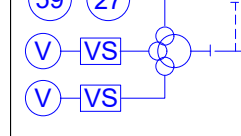
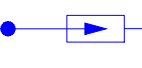
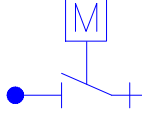
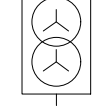
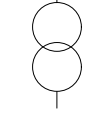
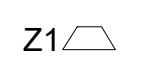
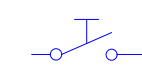
LEGEND	ABBREVIATION	DESCRIPTION
	CT/PNCT	CURRENT TRANSFORMER
	CB	CIRCUIT BREAKER
	LIS/ATIS/TTIS	MOTORISED DISCONNECTOR SWITCH WITH EARTH (INSULATED)
	VTC	MOTORISED VOLTAGE TRANSFORMER WITH ISOLATING LINK
	LIS	EARTHING ISOLATOR
	VTI	INCOMING VOLTAGE TRANSFORMER
	LAI/LAAT/PNLA	LIGHTNING ARRESTER
	LEIS	EARTHING ISOLATOR (MOTORIZED)
	AT-01/02/03/04	132/33kV AUXILIARY TRANSFORMER ONAN
	TT-01/02/03/04	132/27.5kV TRACTION TRANSFORMER ONAN
	CSE	CABLE SEALING END
	LEIS	EARTHING ISOLATOR (MOTORIZED)

TABLE-2: 33kV EQUIPMENT

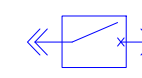
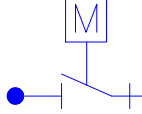
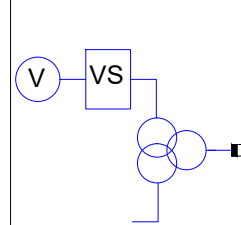
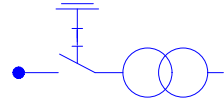
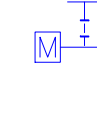
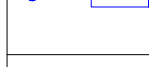
LEGEND	ABBREVIATION	DESCRIPTION
	CT/LFCT/RCCT	CURRENT TRANSFORMER
	LBCB/LFCB/RCCB /LBCEIS/LVATCB	CIRCUIT BREAKER,
	CSE	CABLE TERMINATION
	LBEIS/LFEIS/ LVATEIS/RCEIS/ LBCEIS	EARTHING ISOLATOR (MOTORIZED)
	LBVT/PTR	VOLTAGE TRANSFORMER WITH DEVICE TO BREAK VT HIGH VOLTAGE CONNECTION

TABLE-3: 25kV EQUIPMENT

LEGEND	ABBREVIATION	DESCRIPTION
	CT/TCT	CURRENT TRANSFORMER
	CB	25kV MOTORISED CIRCUIT BREAKER,
	VT	POTENTIAL TRANSFORMER WITH ISOLATING LINK
	SP	MOTORISED THREE POSITION SWITCH (INSULATED)
	LA/LAI	LIGHTNING ARRESTER
	CSE	CABLE TERMINATION
	VT	POTENTIAL TRANSFORMER WITH ISOLATING LINK
	CT	CURRENT TRANSFORMER

- NOTES FOR TYPICAL SLD TYPE-1 FOR 220KV GIS :-**
- THIS 220 kV KEY SLD IS INDICATIVE ONLY AND TRACTION CONTRACTOR SHALL MAKE DETAILED SLD AS PER TECHNICAL SPECIFICATION AND AGREEMENT WITH CLIENT.
 - A DETAILED SLD ALONG WITH THE PROTECTION WILL BE AS PER TECHINCAL SPECIFICATION AND AGREEMENT WITH CLIENT.
 - ALL RATINGS ARE INDICATIVE ONLY AND SHALL BE FINALIZED AS PER DETAIL DESIGN.
 - THIS DRAWING IS INDICATIVE AND FOR TENDER PURPOSE ONLY AND CONTRACTOR SHALL DEVELOP THE DRAWING FOR CLIENT APPROVAL.

FOR TENDER PURPOSE ONLY

NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.

2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.

3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.

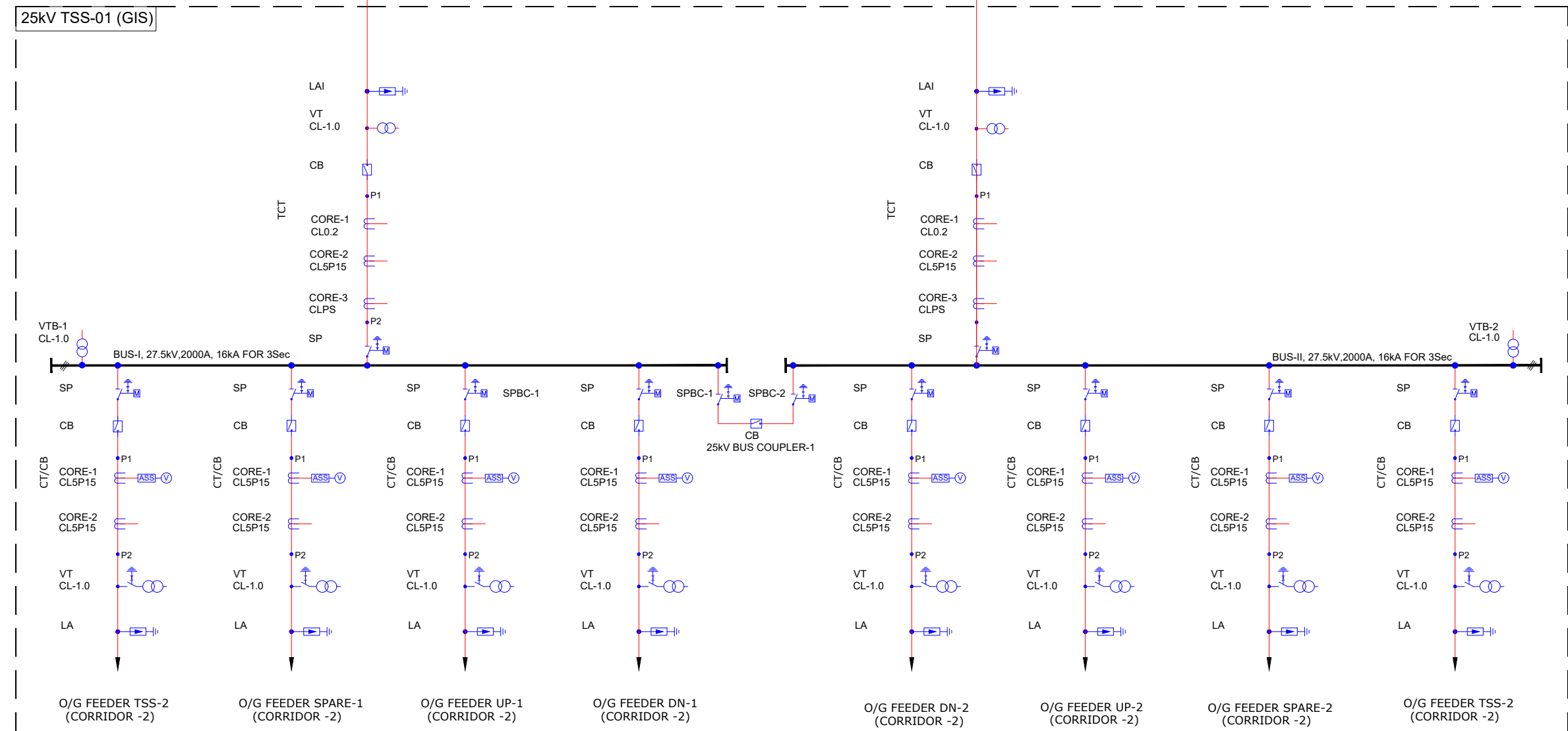
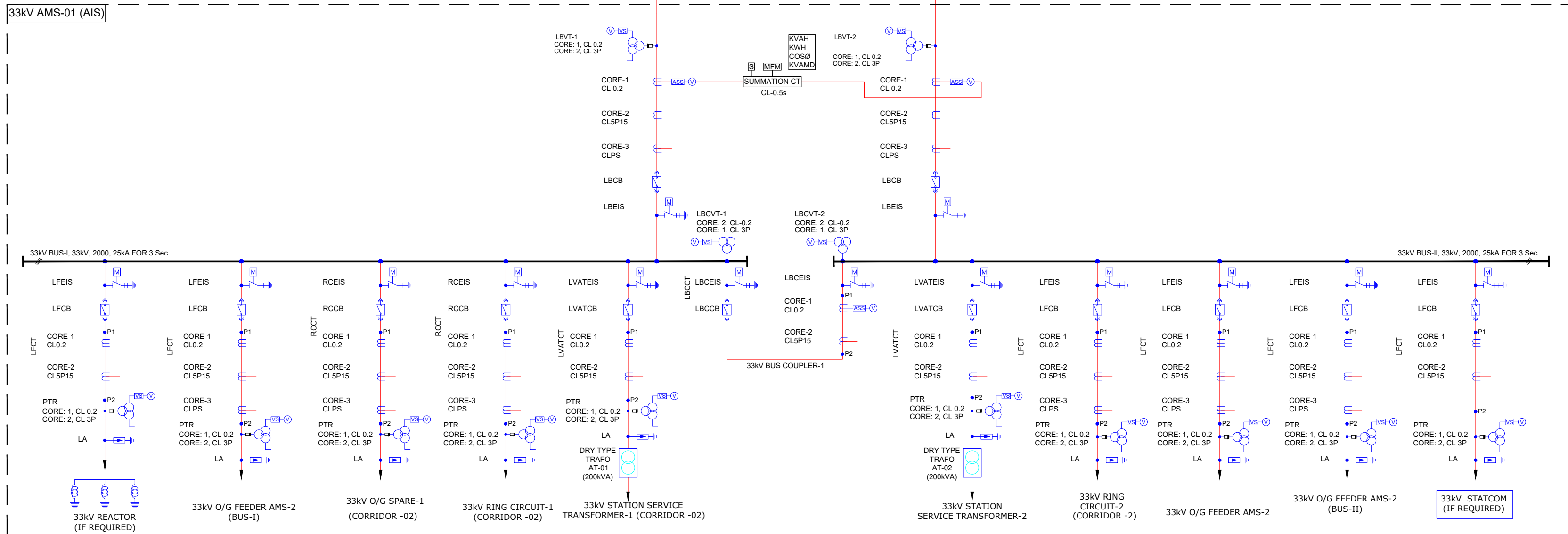
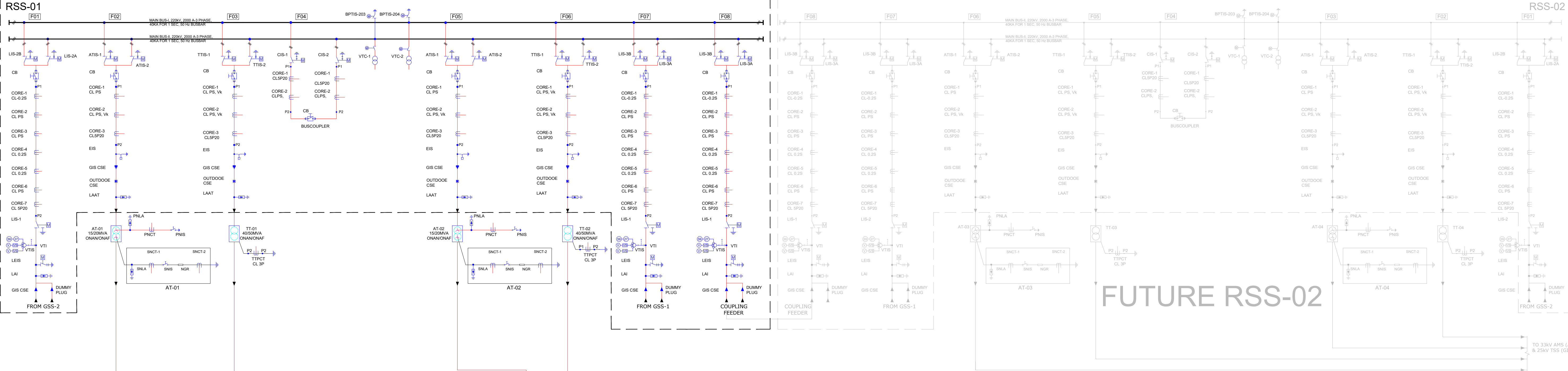
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

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TYPE-1 RSS

1. MATHIKERE

220kV RSS (GIS)



NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

REV	DATE	DESCRIPTION	Originator	Checked	Approved
R1	02-09-2024	SECOND SUBMISSION	KB	VS/RK	SK
R0	08-08-2024	FIRST SUBMISSION	KB	VS/RK	SK

K RIDE

DM / ELE / KRIDE

Sr. DGM / ELE / KRIDE

AGM / ELE / KRIDE

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.

egis **AECOM** WSP
EGIS-AECOM-WSP

Senior Discipline Expert Chief Discipline Expert Project Director

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.
Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRRP

SYSTRA

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
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Client:



RAIL INFRASTRUCTURE
DEVELOPMENT COMPANY
(KARNATAKA) LIMITED

Project Title: Bengaluru Suburban Rail Project (BSRRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRRP)

Corridor- 2

Drawing Title:
Typical Single Line Diagram Of GIS RSS CUM AMS CUM
TSS - 220/33/27.5 kV GIS Substation - Mathikere RSS.
(Sh. 2 of 2)

Project Stage:

Tender Drawing

Paper Size: A1

Discipline:

Power Supply & Traction System

Date: 08/08/2024

Revision:

TS/NTS

R0

Drawing no.: KRDD01-TDR-GEN-GEN-TPS-DWG-00011