

TABLE-1: 220kV EQUIPMENT

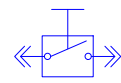
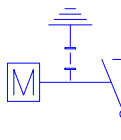
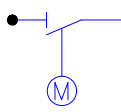
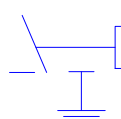
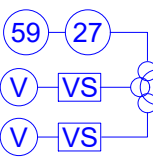
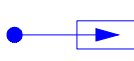
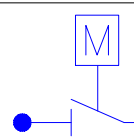
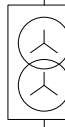
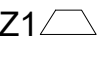
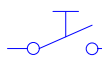
LEGEND	ABBREVIATION	DESCRIPTION
	CT/PNCT	CURRENT TRANSFORMER
	CB	CIRCUIT BREAKER
	LIS/ATIS/TTIS	MOTORISED DISCONNECTOR SWITCH WITH EARTH (INSULATED)
	VTC	MOTORISED VOLTAGE TRANSFORMER WITH ISOLATING LINK
	LIS	EARTHING ISOLATOR
	VTI	INCOMING VOLTAGE TRANSFORMER
	LAI/LAAT/PNLA	LIGHTNING ARRESTER
	LEIS	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

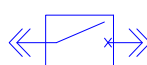
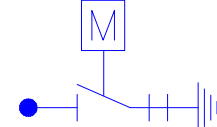
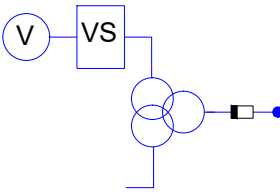
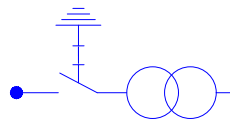
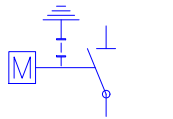
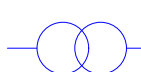
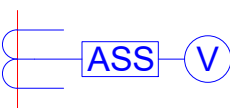
LEGEND	ABBREVIATION	DESCRIPTION
	CT/LFCT/RCCT	CURRENT TRANSFORMER
	LBCB/LFCB/RCCB /LBCEIS/LVATCB	CIRCUIT BREAKER,
	CSE	CABLE TERMINATION
	LBEIS/LFEIS/ LVATEIS/RCEIS/ LBCEIS	EARTHING ISOLATOR (MOTORIZED)
	LBVT/PTR	VOLTAGE TRANSFORMER WITH DEVICE TO BREAK VT HIGH VOLTAGE CONNECTION

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-3 FOR 220KV GIS SOLADEVANAHALLI

1. THIS KEY SLD IS INDICATING THE NUMBER OF FEEDERS, AND THE OVERALL GENERAL ARRANGEMENT OF THE RSS.
2. A DETAILED SLD ALONG WITH THE PROTECTION WILL BE SUBMITTED SEPARATELY.
3. THIS TYPICAL SLD WILL BE APPLICABLE TO SOLDEVANAHALLI DEPOT RSS.
4. ALL RATINGS ARE INDICATIVE ONLY AND SHALL BE FINALIZED AS PER SIMULATION REPORT.
5. SOLDEVANAHALLI DEPOT 220KV RSS SHALL FEED DEPOT SECTION ONLY.
6. 25KV OUTGOING FEEDERS FOR DEPOT ARE CONSIDERED INSIDE THE 25KV TSS ONLY. NO SEPARATE FP LOCATION IS REQUIRED FOR FEEDING DEPOT OHE LINES.
7. THE NUMBER OF OUTGOING FEEDERS IS TENTATIVE AND MAY CHANGE AS PER DEPOT OHE SECTIONING.
8. THIS DRAWING IS INDICATIVE AND FOR TENDER PURPOSE ONLY AND CONTRACTOR SHALL DEVELOP THE DRAWING FOR CLIENT APPROVAL.

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.

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

K RIDE

DM / ELE / KRIDE

Sr. DGM / ELE / KRIDE

AGM / ELE / KRIDE

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Senior Discipline Expert	Chief Discipline Expert	Project Director
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Chief Discipline Expert

Project Director

Client:



RAIL INFRASTRUCTURE
DEVELOPMENT COMPANY
(KARNATAKA) LIMITED

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

Corridor-2

Drawing Title:	Pr
Typical Single Line Diagram Of GIS RSS CUM AMS CUM TSS - 66/33/27.5 kV GIS Substation - Soldevanahalli RSS (Sh. 1 of 2)	

Project Stage:

Order Drawing

Paper Size: A1

Discipline:	Power Supply & Traction System	Date:
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Scale	
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TC/MTC

Drawing no.:

	Power Supply & Traction System	08/0
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TS/NTS

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Auxiliary Power Supply and Distribution for BSRP
SYSTRAMA CONSULTING (INDIA) PVT. LTD.
 10th and 11th Floor, Tower-B, 12/3, Vatika
 Mindscapes, Mathura Road, NH2, Sector 27D,
 Faridabad, Haryana 121013

Drawn

V. Singh

R.Kannan

Checked:

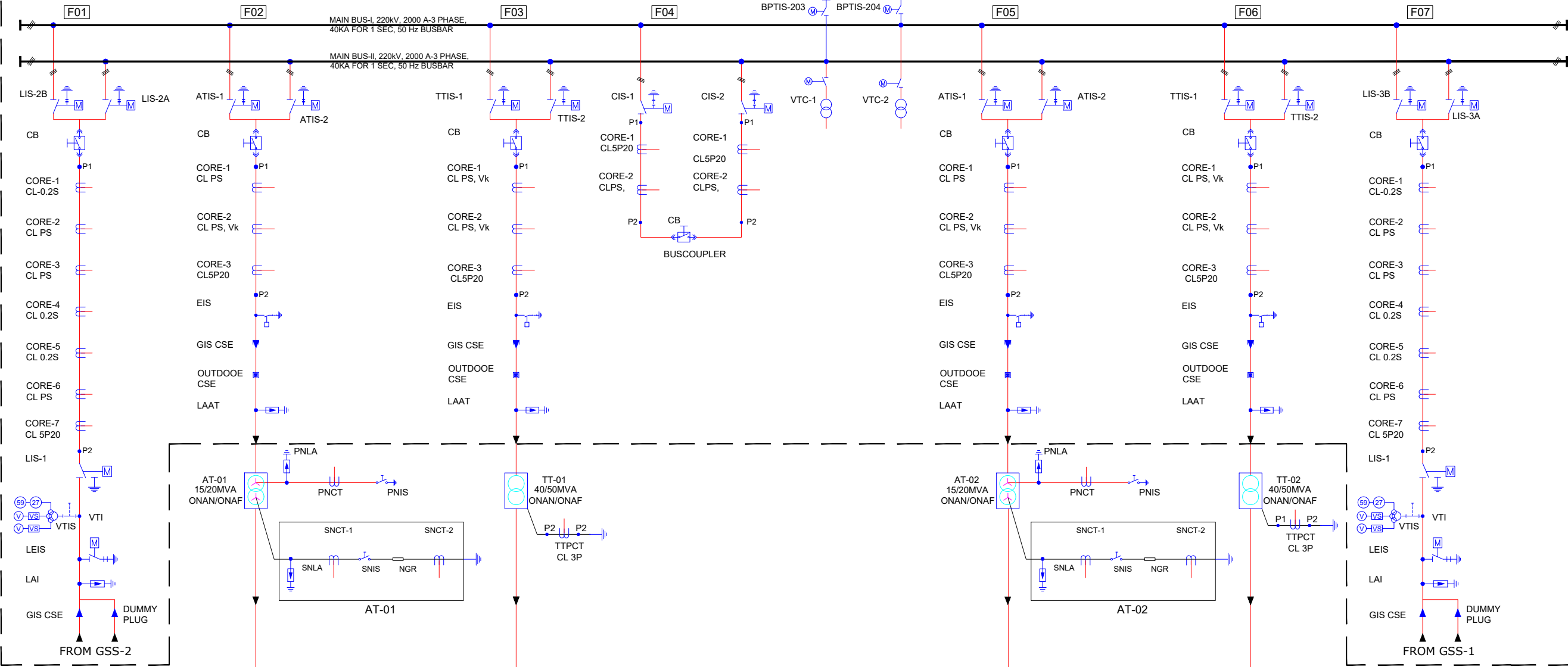
Approved

TYPE-1 RSS

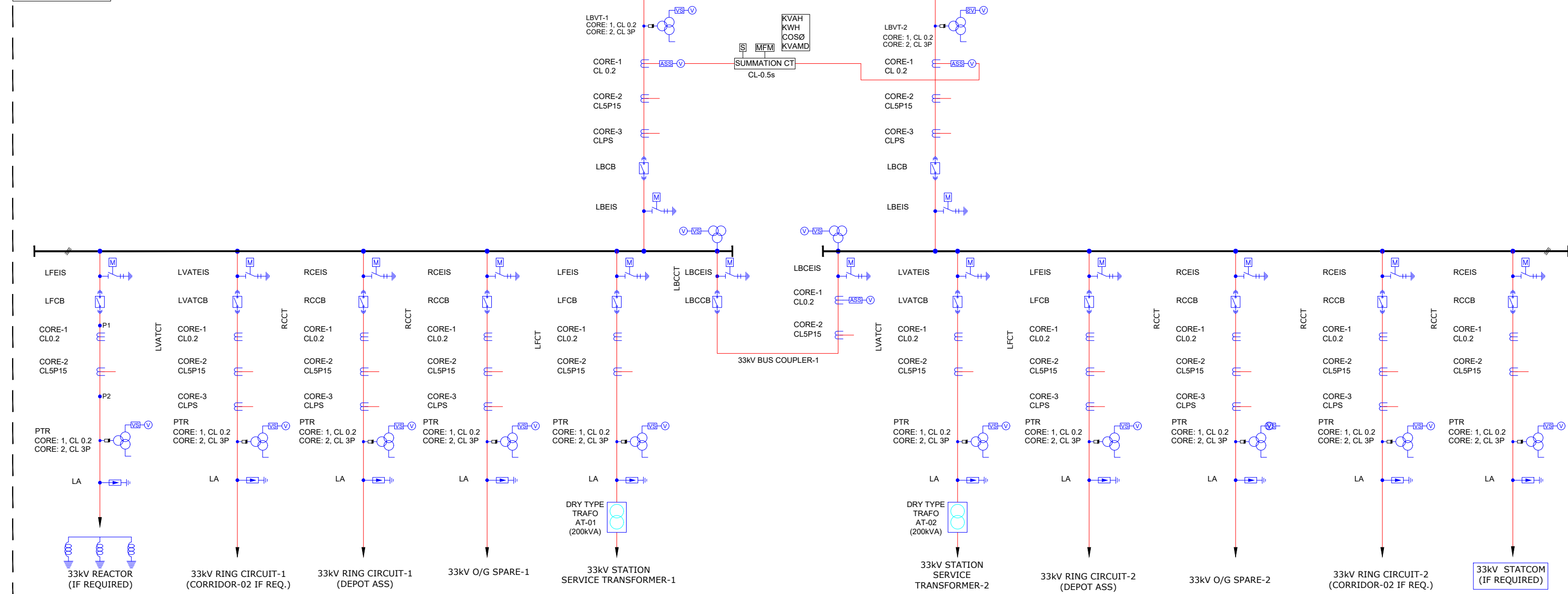
1. SOLDEVANAHALLI DEPOT RSS

220kV RSS (GIS)

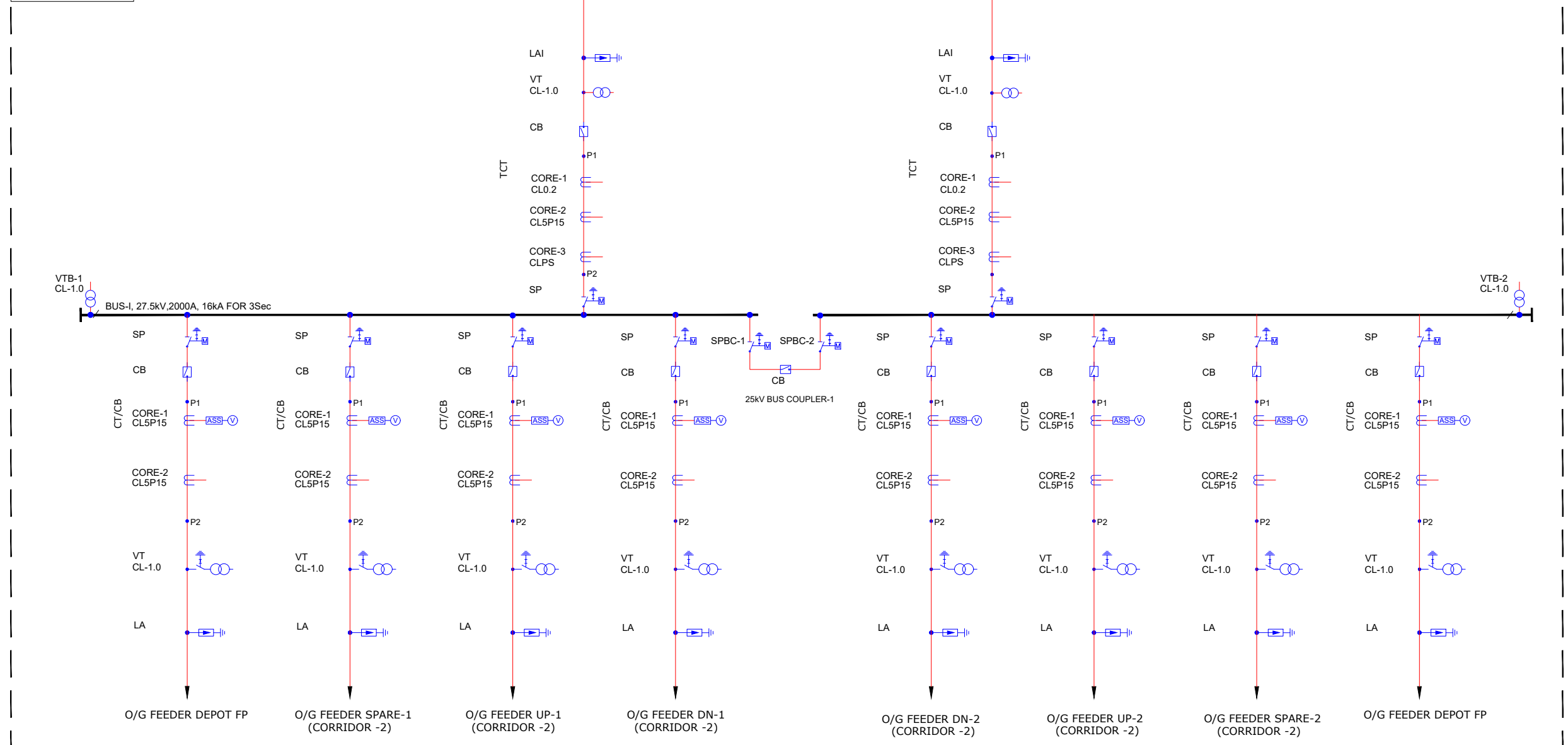
RSS-01



33kV AMS (AIS)



25kV TSS (GIS)



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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

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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 BSRP**SYSTRA**

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
10th and 11th Floor, Tower-B, 12/3, Vatika
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Faridabad, Haryana 121015

Drawn

Checked:

Approved:

K.Blaht

V. Singh

R.Kannan

S. Kumar

S. Kumar

Client:



RAIL INFRASTRUCTURE
DEVELOPMENT COMPANY
(KARNATAKA) LIMITED

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Drawing Title:
Typical Single Line Diagram Of GIS RSS CUM AMS CUM
TSS - 66/33/27.5 kV GIS Substation - Soldevanahalli
Depot RSS (Sh.2 of 2)

Project Stage:

Tender Drawing

Paper Size: A1

Discipline:

Power Supply & Traction System

Date:

08/08/2024

Scale:

TS/NTS

Drawing no.:

KRDD01-TDR-GEN-GEN-TPS-DWG-00014

Revision:

R1

FOR TENDER PURPOSE ONLY