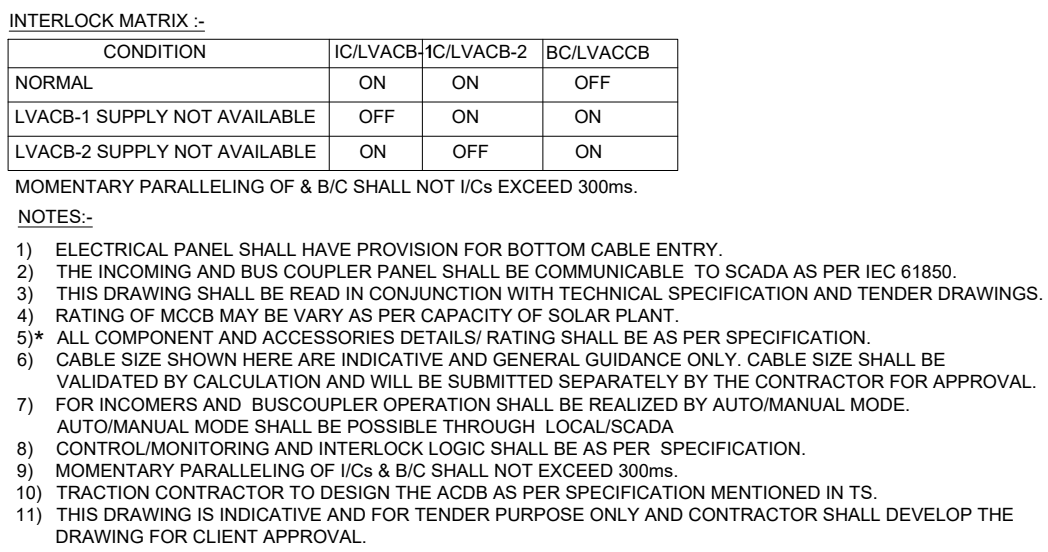




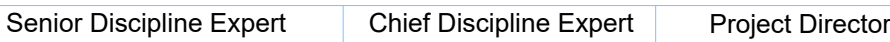
LEGENDS:-			PROTECTION LEGEND:-		
SL. NO.	SYMBOL	ITEM DESCRIPTION	SL. NO.	SYMBOL	ITEM DESCRIPTION
1.		ACB	1.		INSTANTANEOUS O/C RELAY
2.		MCCB	2.		INSTANTANEOUS E/F RELAY
3.		MCB	3.		INVERSE TIME O/C RELAY
4.		HRC FUSE	4.		INVERSE TIME E/F RELAY
5.		INDICATING LAMP	5.		UNDER VOLTAGE RELAY
6.		VOLTMETER			
7.		AMMETER			
8.		VOLTMETER SELECTION SWITCH			
9.		AMMETER SELECTION SWITCH			
10.		20KA, 33KV/15V, Dyn11 AUXILIARY STATION TRANSFORMER SST			

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.

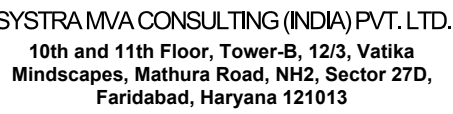
R0	08-08-2024	FIRST SUBMISSION	KB	VS/RK	SK
REV	DATE	DESCRIPTION	Originator	Checked	Approved

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



Senior Discipline Expert	Chief Discipline Expert	Project Director
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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



Drawn	Checked:	Approved:
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V. Singh			S. Kumar		S. H. A. N.
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Client:



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

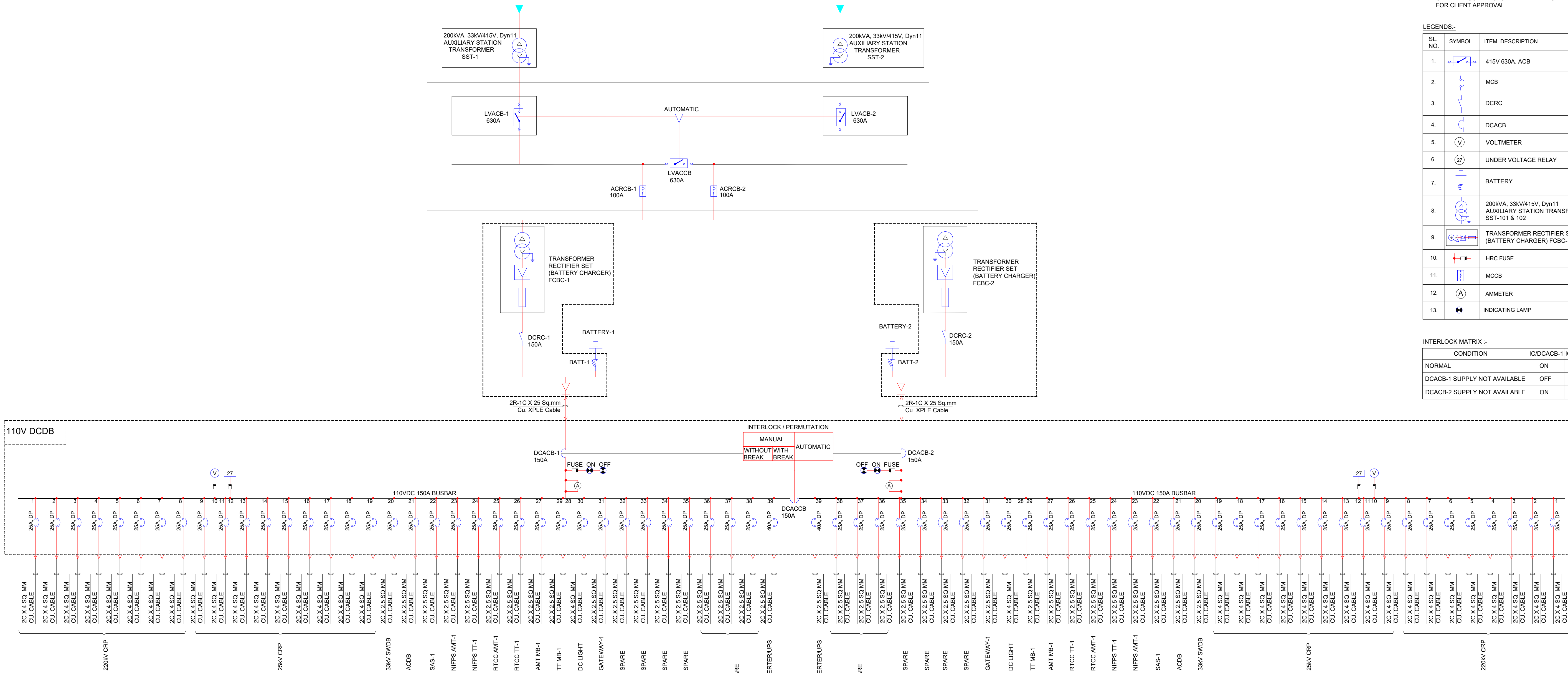
Corridor-1, 2, 3 & 4

Drawing Title:
TYPICAL AUXILIARY 415V AC DISTRIBUTION
SINGLE LINE DIAGRAM FOR RSS
Sh. 1 of 2

Project Stage:

Paper Size: A1	Discipline: Power Supply & Traction System	Date: 09/09/2024	Scale: TS/NTS
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AT	Power Supply & Traction System	08/08/2024	TS/NTS
Drawing no.: KRDD01-TDR-GEN-GEN-TPS-DWG-00015			Revision: R0



- NOTES:-
- 1) THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATION AND TENDER DRAWINGS.
 - 2) THE BODY OF CB SHALL BE BERTHYED BY THE SUITABLE SIZES OF CABLES/CONNECTIONS.
 - 3) THE CAPACITY OF BATTERY SHALL BE DETERMINED BASED ON BATTERY SIZING CALCULATIONS.
 - 4) ALL COMPONENT AND ACCESSORIES DETAILS/ RATING SHALL BE AS PER SPECIFICATION.
 - 5) CABLE SIZE SHOWN HERE ARE INDICATIVE AND GENERAL GUIDANCE ONLY. CABLE SIZE SHALL BE VALIDATED BY CALCULATION SHALL BE SUBMITTED BY CONTRACTOR SEPARATELY.
 - 6) CONTROL/MONITORING AND INTERLOCK LOGIC SHALL BE AS PER SPECIFICATION.
 - 7) GIS DC SUPPLY SHALL BE LOOPED FROM RESPECTIVE CRP.
 - 8) TRACTION CONTRACTOR TO DESIGN THE ACDB AS PER SPECIFICATION MENTIONED IN TS.
 - 9) THIS DRAWING IS INDICATIVE AND FOR TENDER PURPOSE ONLY AND CONTRACTOR SHALL DEVELOP THE DRAWING FOR CLIENT APPROVAL.

LEGENDS:-

SL. NO.	SYMBOL	ITEM DESCRIPTION
1.		415V 630A, ACB
2.		MCB
3.		DCRC
4.		DCACB
5.		VOLT METER
6.		UNDER VOLTAGE RELAY
7.		BATTERY
8.		200kVA, 33kV/415V, Dyn11 AUXILIARY STATION TRANSFORMER SST-101 & 102
9.		TRANSFORMER RECTIFIER SET (BATTERY CHARGER) FCBC-1 & 2
10.		HRC FUSE
11.		MCCB
12.		AMMETER
13.		INDICATING LAMP

INTERLOCK MATRIX :-

CONDITION	IC/DCACB-1	IC/DCACB-2	BC/DCACCB
NORMAL	ON	ON	OFF
DCACB-1 SUPPLY NOT AVAILABLE	OFF	ON	ON
DCACB-2 SUPPLY NOT AVAILABLE	ON	OFF	ON

- 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.
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RO	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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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

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Drawn: K.Bisht Checked: V. Singh, R.Kannan Approved: S. Kumar, S. Kumar

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-1, 2, 3 & 4

Drawing Title:
TYPICAL AUXILIARY 110V DC DISTRIBUTION
SINGLE LINE DIAGRAM FOR 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-00015 Revision: R0