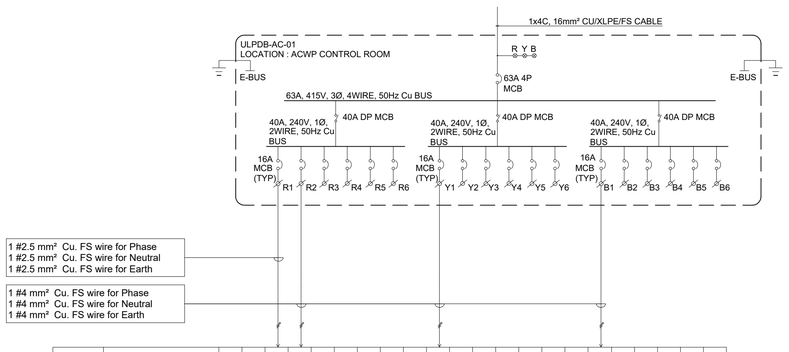
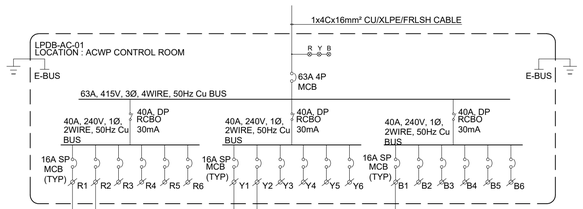
UPS DISTRIBUTION PANEL (ADMIN BLOCK)



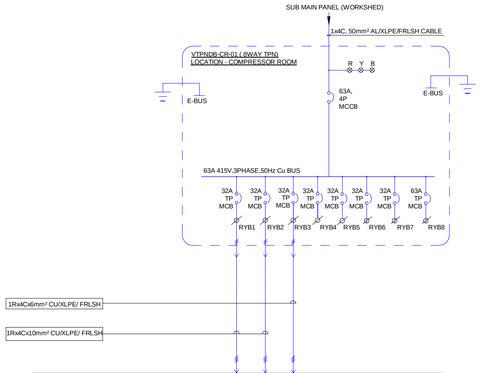
SYMBOL	DESCRIPTION	WATTAGE	TOTAL QTY	R1	R2	R3	R4	R5	R6	Y1	Y2	Y3	Y4	Y5	Y6	B1	B2	B3	B4	B5	B6
	LED BATTEN-2_IP65	36	3	3																	
	UPS 6/16A	300	2							1						1					
	UPS 6A (HOOTER)	100	1		1																
	Connected load			108	100					300						300					
	Diversity			0.9	0.3					0.3						0.3					
	Demand Load			97	30					90						90					
	Primary Point (1P)	3		1						1						1					
	Secondary Point (2P)	2		2						0						0					
	Total Connected Load	0.81 kW		0.21 kW						0.30 kW						0.30 kW					
	Total Demand Load	0.31 kW		0.13 kW						0.09 kW						0.09 kW					
	Area served			CONTROL ROOM	CONTROL ROOM	SPARE	SPARE	SPARE	SPARE	CONTROL ROOM	SPARE	SPARE	SPARE	SPARE	SPARE	CONTROL ROOM	SPARE	SPARE	SPARE	SPARE	SPARE

SUB MAIN PANEL (ADMIN BLOCK)



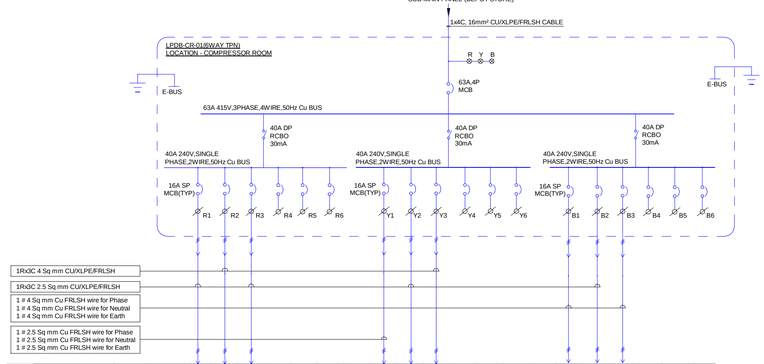
SYMBOL	DESCRIPTION	WATTAGE	TOTAL QTY	R1	R2	R3	R4	R5	R6	Y1	Y2	Y3	Y4	Y5	Y6	B1	B2	B3	B4	B5	B6
	LED BATTEN-2_IP65	36	5	5																	
	LED BULKHEAD	7	1	1																	
	Raw 6/16A	500	3		1					1						1					
	CONTROL PANEL	-	1								1										
	Connected load			187	500					500	1100					500					
	Diversity			0.2	0.3					0.3	0.84					0.3					
	Demand Load			37	150					150	924					150					
	Primary Point (1P)	5		1	1					1	1					1					
	Secondary Point (2P)	5		5	0					0	0					0					
	Total Connected Load	2.79 kW		0.69 kW						1.60 kW						0.50 kW					
	Total Demand Load	1.41 kW		0.19 kW						1.07 kW						0.15 kW					
	Area served			CONTROL ROOM	CONTROL ROOM	SPARE	SPARE	SPARE	SPARE	CONTROL ROOM	CONTROL ROOM (VEF/ G/01 & 02	SPARE	SPARE	SPARE	SPARE	CONTROL ROOM	SPARE	SPARE	SPARE	SPARE	SPARE

SUB MAIN PANEL (WORKSHED)



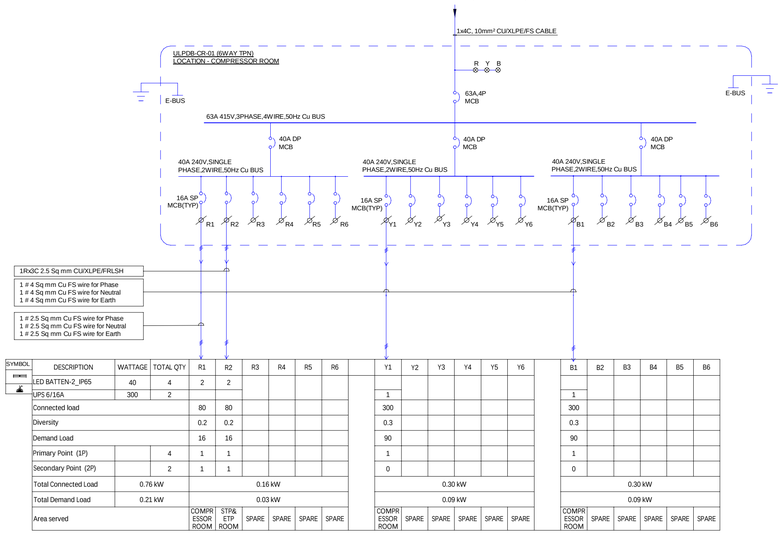
SYMBOL	DESCRIPTION	WATTAGE	TOTAL QTY	RYB1	RYB2	RYB3	RYB4	RYB5	RYB6	RYB7	RYB8
	32A Three Phase Industrial	-	3	1	1	1					
	Connected load in KW			25.00	25.00	5.00					
	Diversity			0.6	0.0	0.6					
	Demand Load in KW			15.00	0.00	3.00					
	Total Connected Load	55.00 kW		55.00 kW							
	Total Demand Load	18.00 kW		18.00 kW							
	Area served			AIR COMPRESSOR	AIR COMPRESSOR	DRYER	SPARE	SPARE	SPARE	SPARE	SPARE

SUB MAIN PANEL (DEPOT STORE)



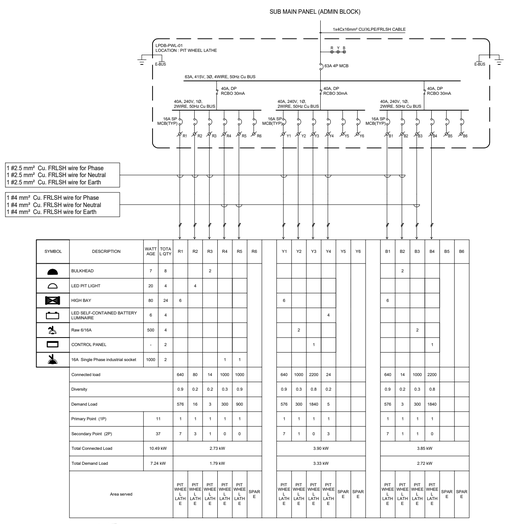
SYMBOL	DESCRIPTION	WATTAGE	TOTAL QTY	R1	R2	R3	R4	R5	R6	Y1	Y2	Y3	Y4	Y5	Y6	B1	B2	B3	B4	B5	B6
	LED BATTEN-2_IP65	40	4			2				2											
	LED BULKHEAD	7	5			4				1											
	Raw 6/16A	500	6		2							2				1		1			
	16A Single Phase (IDU/FAN)	-	3	1							1						1				
	Connected load			180	1000	108				87	550	1000				500	550	500			
	Diversity			0.67	0.2	0.2				0.2	0.8	0.8				0.3	0.8	0.30			
	Demand Load			120	200	22				17	460	800.0				150	460	150			
	Primary Point (1P)	8		1	1	1				1	1	1				1	1	1			
	Secondary Point (2P)	9		0	1	5				2	0	1				0	0	0			
	Total Connected Load	4.48 kW		1.29 kW						1.64 kW						1.55 kW					
	Total Demand Load	2.38 kW		0.34 kW						1.28 kW						0.76 kW					
	Area served			STP& ETP ROOM (VEF/G/01)	STP& ETP ROOM	STP& ETP ROOM	SPARE	SPARE	SPARE	COMPRESSOR ROOM	COMPRESSOR ROOM (VEF/G/02)	STP& ETP ROOM	SPARE	SPARE	SPARE	COMPRESSOR ROOM	COMPRESSOR ROOM (VEF/G/02)	COMPRESSOR ROOM	SPARE	SPARE	SPARE

UPS DISTRIBUTION PANEL (DEPOT STORE)



SYMBOL	DESCRIPTION	WATTAGE	TOTAL QTY	R1	R2	R3	R4	R5	R6	Y1	Y2	Y3	Y4	Y5	Y6	B1	B2	B3	B4	B5	B6
	LED BATTEN-2_IP65	40	4	2	2																
	UPS 6/16A	300	2							1						1					
	Connected load			80	80					300						300					
	Diversity			0.2	0.2					0.3						0.3					
	Demand Load			16	16					90						90					
	Primary Point (1P)	4		1	1					1						1					
	Secondary Point (2P)	2		1	1					0						0					
	Total Connected Load	0.76 kW		0.16 kW						0.30 kW						0.30 kW					
	Total Demand Load	0.21 kW		0.03 kW						0.09 kW						0.09 kW					
	Area served			COMPRESSOR ROOM	STP& ETP ROOM	SPARE	SPARE	SPARE	SPARE	COMPRESSOR ROOM	SPARE	SPARE	SPARE	SPARE	SPARE	COMPRESSOR ROOM	SPARE	SPARE	SPARE	SPARE	SPARE

SUB MAIN PANEL (ADMIN BLOCK)



SYMBOL	DESCRIPTION	WATTAGE	TOTAL QTY	R1	R2	R3	R4	R5	R6	Y1	Y2	Y3	Y4	Y5	Y6	B1	B2	B3	B4	B5	B6
	BULKHEAD	7	8			2										2					
	LED PIT LIGHT	20	4		4																
	HIGH BAY	80	24	6						6						6					
	LED SELF-CONTAINED BATTERY LUMINAIRE	6	4										4								
	Raw 6/16A	500	4								2							2			
	CONTROL PANEL		2									1							1		
	16A Single Phase industrial socket	1000	2					1	1												
	Connected load			640	80	14	1000	1000		640	1000	2200	24			640	14	1000	2200		
	Diversity			0.9	0.2	0.2	0.3	0.9		0.9	0.3	0.8	0.2			0.9	0.2	0.3	0.8		
	Demand Load			576	16	3	300	900		576	300	1840	5			576	3	300	1840		
	Primary Point (1P)	11		1	1	1	1	1		1	1	1	1			1	1	1	1		
	Secondary Point (2P)	37		7	3	1	0	0		7	1	1	3			7	1	1	0		
	Total Connected Load	10.49 kW		2.73 kW						3.90 kW						3.85 kW					
	Total Demand Load	7.24 kW		1.79 kW						3.33 kW						2.72 kW					
	Area served			PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	SPARE	PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	SPARE	SPARE	PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	PIT WHEEL LATHE	SPARE	SPARE

LEGENDS:- LIGHTING

SYMBOL	DESCRIPTION
	7W, 750 LUMENS, IP66, IMPACT RESISTANT LED BULKHEAD LUMINAIRE COMPLETE WITH HIGH-PRESSURE DIE-CAST ALUMINIUM HOUSING, POLYCARBONATE (PMMA) DIFFUSER AND ELECTRONIC FIXED OUTPUT DRIVER.
	20W, MINIMUM 2000 LUMENS WITH SYSTEM EFFICACY OF 100 LUMEN/WATT , P65, LED PIT LIGHT FIXTURE CRI>70 WITH EXTRUDED ALUMINIUM HOUSING, POLYCARBONATE DIFFUSER, ELECTONIC FIXED OUTPUT DRIVER WITH HOT DIP GALAVNISED ROTATABLE MOUONTING BRACKET
	80W, MINIMUM 10500 LUMENS WITH SYSTEM EFFICACY OF 130 LUMEN/WATT, IP65, HIGH BAY LUMINAIRE, SYMMETRICAL LIGHT DISTRIBUTION OF 110° BEAM ANGLE COMPLETE WITH DIE CAST ALUMINUM HOUSING, TOUGHENED GLASS COVER AND ELECTRONIC FIXED OUTPUT DRIVER.
	6W, MINIMUM 660 LUMENS, IP20, NON-MAINTAINED TYPE LED EMERGENCY LIGHT WITH SELF CONTAINED BATTERY BACKUP. 3 HOUR AUTONOMY.
	6/8A,SINGLE PHASE 240V SWITCHED SOCKET OUTLET WITH 16A SWITCH
	16A 3 PIN INDUSTRIAL SOCKET OUTLET WITH 16 A DP RCBO OF 30MA SENSITIVITY, IN A POLY CARBONATE IP-65 ENCLOSURE.
	LIGHTING TRUNKING

LEGENDS:- CABLE TRAY

SYMBOL	DESCRIPTION
	CABLE TRAY LV POWER (Non.FS)
	CABLE TRAY LV POWER (FS)
	GI EARTHING STRIP
	MET / CET

LEGENDS:- LIGHTING

SYMBOL	DESCRIPTION
	6A SINGLE POLE SWITCH
	36W, MINIMUM 4400 LUMENS WITH SYSTEM EFFICACY OF 110 LUMEN/WATT,IP65, SURFACE MOUNTED / SUSPENDED LED LINEAR LUMINAIRE COMPLETE WITH POLYCARBONATE HOUSING, HIGH TRANSMISSION OPAL DIFFUSER AND ELECTRONIC FIXED OUTPUT DRIVER.
	7W, 750 LUMENS, IP66, IMPACT RESISTANT LED BULKHEAD LUMINAIRE COMPLETE WITH HIGH-PRESSURE DIE-CAST ALUMINIUM HOUSING, POLYCARBONATE (PMMA) DIFFUSER AND ELECTRONIC FIXED OUTPUT DRIVER.

LEGENDS:- POWER

SYMBOL	DESCRIPTION
	6/6A,SINGLE PHASE 240V SWITCHED SOCKET OUTLET WITH 16A SWITCH
	16A,SINGLE PHASE 240V SOCKET OUTLET (IDU / FAN)
	6/16A,SINGLE PHASE 240V SWITCHED SOCKET OUTLET WITH 16A SWITCH (UPS)
	3 PHASE INDUSTRIAL SOCKET OUTLET WITH TPN RCBO OF 30MA SENSITIVITY, IN A POLY CARBONATE IP-65 ENCLOSURE,

TENDER DRAWING

1. THIS DRAWING IS FOR INFORMATION AND REFERENCE AS A GENERAL GUIDANCE ONLY.
2. ALL DEPOT FACILITIES, PLANTS & MACHINERIES, ACCOMMODATION FACILITIES, SYSTEM WIDE REQUIREMENTS ETC.SHALL BE VERIFIED FOR MAINTENANCE REQUIREMENT OF ROLLING STOCK AND INFRASTRUCTURE FACILITIES.
3. ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE AND TO BE READ ONLY NOT MEASURED
4. ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM APPROVED ALIGNMENT DRAWINGS.
5. STRUCTURE SYSTEM SHOWN IS INDICATIVE. ALL STRUCTURE MEMBER SIZES TO BE DETAILED BY DESIGNER AT LATER STAGE.
6. THIS DRAWINGS HAVE BEEN DEVELOPED IN CONFORMITY TO DPR, SOD, BSRP& OTHER CODAL REQUIREMENTS.
7. SYSTEM ROOM SIZES, HEIGHTS, DOOR SIZE, FLOOR HEIGHT AND CUTOUT DIMENSIONS TO BE VERIFIED BY RELEVANT DISCIPLINES OF ENGINEERING.
8. SHAFTS FOR ELECTRICAL, S&T, PLUMBING, DRAINAGE, SEWAGE DISPOSAL, RAIN WATER HARVESTING, FIRE AND OTHER SYSTEMS SHALL BE PROVIDED AS PER SYSTEM AND MEP REQUIREMENTS.
9. ALL FINISHES ARE SUBJECT TO K-RIDE APPROVAL.
10. SPACE CONSIDERED FOR ELECTRICAL & S&T CABLE TRENCH, DURING THE DETAILED DESIGN STAGE ELECTRICAL & S&T CABLE TRENCH WILL BE PROVIDED BASED ON DESIGN.
11. 1 IN 8.5 TURNOUTS PROVIDED IN THE DEPOT.
12. FM DISTANCE PROVIDED AT 4.25M METERS.

BARSYL we innovate
BALAJI RAILROAD SYSTEMS (P) LIMITED.

REV.NO	DESCRIPTION	DESIGNED	CHECKED	REVIEWED	APPROVED
R0	TENDER DRAWING	AGP 19/09/24	SVH 19/09/24	KLP 19/09/24	VGR 19/09/24

RAMCHANDRA REDDY (AGP) · VENKATESH SVH · LINGA PRASAD. K (KLP) · GOPALA REDDY (VGR)

GENERAL CONSULTANT		K RIDE	
PROJECT DIRECTOR		GM / PLANNING	
SR.ALIGNMENT EXPERT		GM / CIVIL / DEPOT	
CHIEF TRACK EXPERT		GM / ROLLING STOCK	
CHIEF SIGNALLING EXPERT		GM / TRACTION	
CHIEF TRACTION EXPERT		GM / SIGNALLING	
CHIEF TELECOM EXPERT			
SR.ROLLING STOCK ENGINEER			

DIRECTOR PROJECT PLANNING · DIRECTOR SYSTEM

K RIDE — RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

PROJECT I. D: 2388

TITLE:

AUTO COACH WASH , COMPRESSOR ROOM, PIT WHEEL LATHE - ELECTRICAL SYSTEM DISTRIBUTION BOARD SCHEMATIC DIAGRAM

CONSULTANT : BARSYL we innovate — BALAJI RAILROAD SYSTEMS (P) LIMITED.

SCALE	SHEET NO.	DRG NO.K/RIDE_BSRP_RS_DEPOT_SDVL	REV
1:25	1 OF 1		05