



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2107	BOGIE NO	RCF-228904	/ RCF-228905	DISPATCH DATE	16-JAN-23
2.	RAILWAY	ER	TYPE OF COACH	LWSLRD	COACH NO	227718	
3.	BOOKED TO	SSE/C&W/KOAA					
4.	Tare Weight of Coach	48 T					
5.	Carrying Capacity	Seating	31	Sleeping	NIL	Luggage	4 T
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body			23700+10/-0		
	ii)	Maximum width over Body			3240-8/+0 mm, 3050 mm (for LWSCZDAC)		
	iii)	Maximum height from Rail Level			4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBAC, LWLRRM), 4366 (for LWSCZDAC)		
					PP Side	NPP Side	
	iv)	CBC Height	Specified: 1105 +0/-15 mm			1100	1100
	v)	CBC (Make)				FRONTIER	SANROK
	vi)	CBC (No)				250 182P3	R3T-1448 R3T-1450
	vii)	Buffer (Make)				ATUL	
	viii)	Buffer (Height)				1104	1104
7.	Air Brake Testing:	Description			Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2			06 - 10 Sec	
			Max Pressure in BC			3.80±0.15 Kg/cm2	
			All Brake are applied			OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/mi			No brake application	
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec			Brake must apply	
8.	Painting Details:	Type of Paint			Make	Average Gloss Value	
	8.1	Paint	PU PAINT			GS	85 / 85
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Coach furnish by:	RCF	Vinyl Film Make:			EMPRISE MARKETTING, L	
10.	Underframe Make:	RCF	Side Wall Make:			RCF	
11.	Roof Make:	RCF					
12.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	MAGNUS				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	WRM				
	4	BODY SIDE DOOR	MSL, KALSI				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	BIO-TOILET	RAIL FAB, PD STEEL, RAIL FAB, RAIL FAB				
	7	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	8	WATER TANKS	AMIT MOHALI, AMIT MOHALI, RAIL FAB, RAIL FAB				
	9	COMPOSITE MODULAR TOILET	JSL				
	10	LAVATORY DOORS	JSL, CEE PEE INDUSTRIES				
	11	SEAT & BEARTH	FACE PRO				
	12	FIBA DEVICE	TOP GRIP				
	13	EP BRAK / BRAKE EQUIPMENT	KBI				
	14	YAW DAMPER	ESCORTS				
	15	COMPACT DUSTBIN	JSL				
	16	COMPARTMENT DOOR	NOT APPLICABLE				
	17	PARTITION FRAME TYPE	SS PARTITION FRAME				
	18	PARTITION FRAME	NOT TRACEABLE				
	19	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				



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	20	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE
13.	10.1	Modification/ Trial (If any): NIL	
	10.2	Deviations (If any): NIL	



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		2107	ER	LWSLRD	227718	16-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-228904				RCF-228905			
ii.	Frame No.	RCF-NONAC-2947				RCF-NONAC-2920			
iii.	Bolster No.	RCF-PP-5728				RCF-PS-5516			
iv.	Axle No.	SAIL - 06268		SAIL - 06461		SAIL - 06508		SAIL - 03169	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.00	917.00	917.50	917.00	917.00	917.00	917.00	917.00
vii.	Wheel Disc No.	59517-2T02-TZ	66745-2V36-TZ	59256-2T01-TZ	68417-2S61-TZ	09561-2T60-TZ	01682-2RD9-TZ	59622-2S79-TZ	14420-2T78-TZ
viii.	RB Nos.	506729	412972	508581	416601	416459	508030	416383	509027
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

11.2 Secondary suspension load deflection Values:				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	AVADH-140-22-02-15510	AVADH-140-22-02-15506	AVADH-140-22-01-15293	AVADH-140-22-01-15273

Items traceability:						
11.3	Sno. Item				Make	
	i. Primary Outer Spring	CMSTL-22-07		CMSTL-22-06	CMSTL	
	ii. Primary inner Spring	CMSTL-22-07		CMSTL-22-08	CMSTL	
	iii. Primary Damper	56325, 56913, 57514, 56781		56957, 56393, 56448, 56938	SABOHEMA	
	iv. Secondary Damper	06885, 06893		06882, 06887	GABRIEL	
	v. Lateral Damper	8532		8681	ESCORTS	
	vi. Brake cylinder & Caliper	B4877-214, 71965-260, B4875-214, 71964-260		B4878-214, B3894-214, B4873-214, B3895-214	KBI	
	vii. Brake Disc				KBI	
	viii. Contral arm top				RV	
	ix. Control arm bottom				RV	
	x. Top rubber Pad				NAPL	
	xi. Vertical Bump Stop				NAPL	SIH
	xii. Ball Joint Control arm				SIH	NAPL
	xiii. Lateral Bump stop				SIH	
	xiv. Traction center make				EMSON	RF
	xv. Traction lever make				JI	AEW
	xvi. Ball joint traction lever				SIH	NAPL
	xvii. Traction center elastic				NAPL	
	xviii. Secondary rubber pad				NA	
	xix. Rubber spring				NA	
	xx. Anti roll bar make				FS	CFPL
	xxi. Ball joint roll link				SAI	
	xxii. Fork make				EMSON	RF

11.4	i. Modification/Trail(if any):	NIL		
	ii. Deviations (if any):	Deviations (If any): NIL		

LWSLRD - 2107



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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB SLR COACH WITH 31 SEAT & 04 NOS.LAVA						
TYPE OF COACH RAILWAY		LWSLRD ER	Shell No COUPLING TYPE	2107 CBC	COACH_NO DATE OF FITMENT	22771 14-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME						
1	33501427-0, SUPPLY OF ITEM AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing/Spec. No. : RDSO	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015			KNORR-BREMSE INDIA PVT LTD	3522232666
2	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS 6V EACH OR 2V,57 INDIVIDUAL CELLS IN MS MODUL	RDSO/PE/Spec./AC/0009/2014(Rev.2)			AMARA RAJA	NIL
3	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE//SPEC/TL/0158-2010,REV-0,TYPE-1			VIMAL TRANSFORMER	5520
4	33635067-1, BOGIE 1	EDTS101,REV-C,AM-2,COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	228904
5	33635067-2, BOGIE 2	EDTS101,REV-C,AM-2,COR-7.RCF ANNEXURE 1			DARHAN ENTERPRISES	228905
6	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDSO/PE/SPEC/AC/0177-2013,Rev-1 WITH RCF ANNEX.A.			MAA LAXMI INDUSTRY	NIL
7	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDSO/PE/SPEC/AC/0177-2013,Rev-1 WITH RCF ANNEX.A.			MAA LAXMI INDUSTRY	NIL
8	33640178-0, BATTERY FUSE BOX -VE, as per Drawing/Specification: LW71002,ALT-J., Packing Instruction: SUITABLY CO	LW71002,ALT-J.			BHASIN PACKARD ELECTRONICS (PVT) LTD.	07222730
9	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO	LW71001,ALT-I.			UPS INTERNATIONAL	2209119
10	33641419-0, EMERGENCY BATTERY CHARGER 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED FOR LHB COACHES., as per	RDSO/PE/SPEC/AC/0183-2018,REV-1.			PI ENGINEERING WORKS	22-09-1843



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TYPE OF COACH RAILWAY		LWSLRD ER	Shell No COUPLING TYPE	2107 CBC	COACH_NO DATE OF FITMENT	22771 14-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME						
11	33642631-0, SET OF PANEL FOR LHB NAC COACHES,WITHOUT LV PANEL, as per Drawing/ Spec. No.: EDTS355,REV-1,AM3., Pa	EDTS355,REV-1,AM-1-4&6.			MAA LAXMI INDUSTRY	048-11-22
12	33642795-1, SWITCH BOARD CABINET FOR HOG COMPLIANT LSLRD COACH	EL/LSLRD/HOG VERSION 1			TRINTRON CONTROL SYSTEMS PVT. LTD.	22-10-0125-049
13	33642795-4, 16 PIN CONTROL COUPLER & UIC CONTROL CABLE	EL/LSLRD/HOG VERSION 1			SCHALBAU	NIL
14	45980980-0, UNIVERSAL BATTERY BOX COMPLETE FOR SG AC COACHES WITHOUT STOPPER ASSLY TO DRG. NO.MI004567,MI004568	MI004534 Alt.'c' WITHOUT ITEM NO. 17,18 & 19			GOPAL ENGG	NIL
Group Name COMPARTMENT						
15	33642497-0, LED LIGHT FITTING FOR CORRIDOR, DOORWAY GANGWAY AREA FOR CONVENTIONAL AC/NON AC LHB NON AC COACH	RDS0/PE/SPEC/TL/0091-2016,REV-1, AS PER DRG NO. CC76453, TYPE-"B1" (9 WATT), RCF, ANNEX-1,2&3			KAVERI INDUSTRIES	NIL
16	33642631-0, SET OF PANEL FOR LHB NAC COACHES,WITHOUT LV PANEL, as per Drawing/ Spec. No.: EDTS355,REV-1,AM3., Pa	EDTS355,REV-1,AM-1-4&6.			MAA LAXMI INDUSTRY	CUBICAL
17	33642795-2, FEEDER JUNCTION BOX FOR LHB NON AC LSLRD COACHES	EL/LSLRD/HOG VERSION 1			RSI	NIL
18	33642795-3, FEEDER JUNCTION BOX FOR LHB NON AC LSLRD COACHES	EL/LSLRD/HOG VERSION 1			RSI	NIL
19	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE WITH FAN GUARD DRG NO ICF/SK-7-6-158,ALT-'G', as per	RDS0/PE/SPEC/TL/0021/2005, REV-3,AM-1.			ELECTRO WAVES ELECTRONICS PVT.LTD.	NIL



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SSE/EL/QC

AME/WM QC/DY CQM I