



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2109	BOGIE NO	RCF-236021	/ RCF-236022	DISPATCH DATE	17-JAN-23
2.	RAILWAY	SWR	TYPE OF COACH	LWSLRD	COACH NO		227719
3.	BOOKED TO	SSE/C&W/MAO					
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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)			
				PP Side		NPP Side	
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1100	1098	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	CBC (No)			1453 1408	1451 1452	
	vii)	Buffer (Make)				ATUL	
	viii)	Buffer (Height)				1101	1102
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:		TECHNO EXPERT, JUC		
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	KALSI, MSL				
	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	ESCORTS				
	14	YAW DAMPER	ESCORTS				
	15	COMPACT DUSTBIN	JSL				
	16	COMPARTMENT DOOR	RAIL TECH				
	17	PARTITION FRAME TYPE	SS PARTITION FRAME				
	18	PARTITION FRAME	NOT TRACEABLE				
	19	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	20	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				



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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	
			2109		SWR		LWSLRD		227719		17-JAN-23	
11.1 <u>Wheel & Axle Details:</u>												
	i.	Bogie No.	RCF-236021				RCF-236022					
	ii.	Frame No.	RCF-NONAC-2933				RCF-NONAC-2961					
	iii.	Bolster No.	RCF-PP-5759				RCF-PP-5748					
	iv.	Axle No.	SAIL - 04823		SAIL - 07823		SAIL - 05436		SAIL - 07250			
	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	917.00	917.00	917.00	917.00	917.00	917.00		
	vii.	Wheel Disc No.	58341-2SG6-TZ	69698-2V31-TZ	16999-2V10-TZ	09948-2T40-TZ	12808-2T44-TZ	70359-2V38-TZ	18701-2T57-TZ	57455-2S43-TZ		
	viii.	RB Nos.	10521	28436	13809	28454	15744	10545	17363	24230		
	ix.	RB Make	SKF		SKF		SKF		SKF			
	x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2 <u>Secondary suspension load deflection Values:</u>												
Description			Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side			
i.	Make & Nos.		ASHIKA-140-21-07-4710		ASHIKA-140-21-07-4673		ASHIKA-140-21-07-4711		ASHIKA-140-21-07-4730			
<u>Items traceability:</u>												
11.3												
	Sno.	Item								Make		
	i.	Primary Outer Spring			CMSTL-22-06		CMSTL-22-06			CMSTL		
	ii.	Primary inner Spring			CMSTL-21-08		CMSTL-22-07			CMSTL		
	iii.	Primary Damper			57532, 56403, 57941, 57940		57220, 56786, 58462, 57634			SABOHEMA		
	iv.	Secondary Damper			06892, 06886		06884, 06883			GABRIEL		
	v.	Lateral Damper			8716		8713			ESCORTS		
	vi.	Brake cylinder & Caliper			63751-2210, 64065-2121, 63741-2210, 64056-2121		63740-2210, 65255-2120, 63780-2210, 65260-2120			ESCORTS		
	vii.	Brake Disc								KBI		
	viii.	Control arm top								RV		SFL
	ix.	Control arm bottom								RV		SF
	x.	Top rubber Pad								SIH		
	xi.	Vertical Bump Stop								SIH		
	xii.	Ball Joint Control arm								SIH		NAPL
	xiii.	Lateral Bump stop								SIH		
	xiv.	Traction center make								RF		
	xv.	Traction lever make								JI		
	xvi.	Ball joint traction lever								SIH		
	xvii.	Traction center elastic								SIH		
	xviii.	Secondary rubber pad								NA		
	xix.	Rubber spring								NA		
	xx.	Anti roll bar make								CFPL		
	xxi.	Ball joint roll link								SAI		
	xxii.	Fork make								EMSON		
11.4												
	i.	Modification/Trail(if any):			NIL							
	ii.	Deviations (if any):			Deviations (If any): NIL							

LWSLRD - 2109



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB SLR COACH WITH 31 SEAT & 04 NOS.LAVA						
TYPE OF COACH RAILWAY	LWSLRD SWR	Shell No COUPLING TYPE	2109 CBC	COACH_NO DATE OF FITMENT	22771 17-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		ESCORTS LTD.	20001643860 523	
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	5549	
4	33635067-1, BOGIE 1	EDTS101,REV-C,AM-2,COR-7.RCF ANNEXURE 1		DARSAHN ENTERPRISES	286021	
5	33635067-2, BOGIE 2	EDTS101,REV-C,AM-2,COR-7.RCF ANNEXURE 1		DARHAN ENTERPRISES	296022	
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.	07222702	
9	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO	LW71001,ALT-I.		UPS INTERNATIONAL	2209336	
10	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1.		PI ENGINEERING WORKS	22091842	



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LHB SLR COACH WITH 31 SEAT & 04 NOS.LAVA						
TYPE OF COACH RAILWAY		LWSLRD SWR	Shell No COUPLING TYPE	2109 CBC	COACH_NO DATE OF FITMENT	22771 17-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	045
12	33642795-1, SWITCH BOARD CABINET FOR HOG COMPLIANT LSLRD COACH	EL/LSLRD/HOG VERSION 1			TRINTRON CONTROL SYSTEMS PVT. LTD.	22-10-0145- 0044
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 ELECRTONICS PVT.LTD.	NIL



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SSE/EL/QC

AME/WM QC/DY CQM I