



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2137	BOGIE NO	RCF- 236277	/ RCF- 236278	DISPATCH DATE	23-FEB-23
2.	RAILWAY	SWR	TYPE OF COACH	LVPHX		COACH NO	227005
3.	BOOKED TO	SSE/C&W/HUBLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	24 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	1098
	v)	CBC (Make)				ESCORTS	ESCORTS
	vi)	CBC (No)				0166-0173	0179-0175
	vii)	Buffer (Make)					
	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			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			NOT APPLICABLE		
	2	LUGGAGE RACK			RAIL FAB		
	3	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	4	ROOF CEILING			RAIL FAB		
	5	FIBA DEVICE			TOP GRIP		
	6	YAW DAMPER			IAI		
	7	PARTITION FRAME			NOT TRACEABLE		
	8	PILLAR ASSLY LONGI SIDE			NOT APPLICABLE		
	9	PILLAR ASSLY TRANSVERSE			NOT APPLICABLE		
	10	PARTITION FRAME TYPE			PROTECTION FRAME		
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	
			2137		SWR		LVPHX		227005		23-FEB-23	
11.1 Wheel & Axle Details:												
i.	Bogie No.	RCF-236277						RCF-236278				
ii.	Frame No.	RCF-NONAC-2998						RCF-NONAC-2997				
iii.	Bolster No.	SHIVALIK-421						SHIVALIK-422				
iv.	Axle No.	SAIL - 077646			SAIL - 06019			SAIL - 04537			SAIL - 07628	
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	917.50	917.00	917.00	917.00	917.00		
vii.	Wheel Disc No.	00462-075-RNL	00259-139-RNL	00259-148-RNL	00147-061-RNL	09501-2T17-TZ	13265-2V30-TZ	58442-2SG9-TZ	58445-2SG9-TZ			
viii.	RB Nos.	508940	508777	509626	508989	506999	416747	416139	414876			
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-140-22-01-15388			AVADH-140-22-01-15361			AVADH-140-22-02-15538			AVADH-140-22-02-15530	
Items traceability:												
11.3												
Sno.	Item										Make	
i.	Primary Outer Spring			CMSTL-22-06			CMSTL-22-06			CMSTL		
ii.	Primary inner Spring			CMSTL-22-08			CMSTL-22-02			CMSTL		
iii.	Primary Damper			AC10863, AC11653, AC10696, AC11706			AC10747, AC11342, AC11707, AC11738			IAI		
iv.	Secondary Damper			AB74289, AB74106			8181, 6784			IAI	SABOHEMA	
v.	Lateral Damper			6798			6978			ESCORTS		
vi.	Brake cylinder & Caliper			74503-2210, 74830-2120, 74501-2210, 74981-2120			74552-2210, 74836-2120, 74545-2210, 75005-2120			ESCORTS		
vii.	Brake Disc									KBI		
viii.	Control arm top									SF	SFL	
ix.	Control arm bottom									SF		
x.	Top rubber Pad									SIH		
xi.	Vertical Bump Stop									SIH		
xii.	Ball Joint Control arm									SIH		
xiii.	Lateral Bump stop									NAPL	SIH	
xiv.	Traction center make									RF		
xv.	Traction lever make									JI		
xvi.	Ball joint traction lever									NAPL	SIH	
xvii.	Traction center elastic									SIH	NAPL	
xviii.	Secondary rubber pad									NA		
xix.	Rubber spring									NA		
xx.	Anti roll bar make									EMSON		
xxi.	Ball joint roll link									EMSON		
xxii.	Fork make									RF		
11.4												
i.	Modification/Trail(if any):			NIL								
ii.	Deviations (if any):			Deviations (If any): NIL								

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY	LVPHX SWR	Shell No COUPLING TYPE	2137 CBC	COACH_NO DATE OF FITMENT	22700 23-FEB-23	
S. PL No & No. Item Description		Drawing No		Make	Item Sr.No. (if any)	
Group Name BOGIE PP SIDE						
1	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRONICS	BOGIE NO 236277	
Group Name BOGIE NPP SIDE						
2	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		DARSHAAN	BOGIE NO 236278	
Group Name UNDER FRAME						
3	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.	22000164386 -0112	
4				VIMAL TRANSFORMER	5561	
5	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.	09225168	
6	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO	LW71001,ALT-I.		UPS INTERNATIONA L	2209018	
7	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.		M B & COMPANY	202200007	
8	33641729-0, 70AH, 110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0009- 2014, REV-2, PRECHARGED.		AMAR ARAJA	10-22	
9	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.		TRINITRON CONTROL SYSTEM PVT. LTD.	23-01-0002	



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY		LVPHX SWR	Shell No COUPLING TYPE	2137 CBC	COACH_NO DATE OF FITMENT	22700 23-FEB-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME						
10	33642813-3, 16 PIN CONTROL COUPLER & UIC CONTROL CABLE	EL/LVPHX VERSION 3			S. INTERNATIONALS	NIL
11	33650184-0, BATTERY BOX MOUNTING, as per Drawing : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT.	1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117			MEENAKASHI ENG. WORKS	NIL
Group Name COMPARTMENT						
12	33642837-0, LED BASED LIGHT FITTING FOR VPH COACHES TYPE-J2, WITH FIRE PROOF MEASURES TO DRG NO.CC76457, ALT-A,	RDSO/PE/SPEC/TL/0091- 2016, REV-1, WITH RCF ANNEX. 1, 2&3.			KAVERI INDUSTRIES	NIL
Group Name UNDER FRAME PP SIDE						
13	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.			MAA LAXMI INDUSTRIES	NIL
14	33642813-1, FEEDER JUNCTION BOX PP SIDE	EL/LVPHX VERSION 3			INDORAIL	NIL
Group Name UNDER FRAME NPP SIDE						
15	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.			MAA LAXMI INDUSTRIES	NIL
16	33642813-2, FEEDER JUNCTION BOX NPP SIDE	EL/LVPHX VERSION 3			INDORAIL	NIL
SSE/EL/QC			AME/WM QC/DY CQM I			



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1.	SHELL NO	2138	BOGIE NO	RCF-236319	/ RCF-236320	DISPATCH DATE	23-FEB-23
2.	RAILWAY	SWR	TYPE OF COACH	LVPHX	COACH NO	227004	
3.	BOOKED TO	SSE/C&W/HUBLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	24 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			1105	1097
	v)	CBC (Make)				SANROK	SANROK
	vi)	CBC (No)				T.1500-T.1526	T.1496-T.1503
	vii)	Buffer (Make)					
	viii)	Buffer (Height)				1108	1108
						1100	1100
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			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	NOT APPLICABLE				
	2	LUGGAGE RACK	RAIL FAB				
	3	EP BRAK / BRAKE EQUIPMENT	ESCORTS				
	4	ROOF CEILING	RAIL FAB				
	5	FIBA DEVICE	ESCORTS				
	6	YAW DAMPER	IAI				
	7	PARTITION FRAME	NOT TRACEABLE				
	8	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	9	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				
	10	PARTITION FRAME TYPE	PROTECTION FRAME				
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	
			2138		SWR		LVPHX		227004		23-FEB-23	
11.1 Wheel & Axle Details:												
i.	Bogie No.	RCF-236319					RCF-236320					
ii.	Frame No.	RCF-NONAC-3012					RCF-NONAC-3013					
iii.	Bolster No.	RCF-PP-5829					KUTEER-058					
iv.	Axle No.	SAIL - 04539			SAIL - L4114			SAIL - L7541			SAIL - 07993	
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	917.00	917.00	
vii.	Wheel Disc No.	19608-2V32-TZ	62384-2T35-TZ	62383-2T35-TZ	19750-2V59-TZ	00462-136-RNL	00462-149-RNL	10301-2V26-TZ	58444-2SG9-TZ			
viii.	RB Nos.	508116	414212	415110	506208	416222	412190	416138	507648			
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-140-22-02-15421			AVADH-140-22-02-15423			AVADH-140-22-01-15294			AVADH-140-22-02-15432	
Items traceability:												
11.3												
Sno.	Item									Make		
i.	Primary Outer Spring			CMSTL-22-06			CMSTL-22-06			CMSTL		
ii.	Primary inner Spring			CMSTL-22-02			CMSTL-22-02			CMSTL		
iii.	Primary Damper			4845, 5018, 5019, 5272			4842, 4840, 4843, 4839			GABRIEL		
iv.	Secondary Damper			AB73323, AB73405			AB73352, AB73354			IAI		
v.	Lateral Damper			03986			03988			GBEL		
vi.	Brake cylinder & Caliper			74916-2210, 73560-2120, 74919-2210, 73558-2120			75954-2210, 72038-2120, 75981-2210, 72738-2120			ESCORTS		
vii.	Brake Disc									KBI		
viii.	Contral arm top									SFL		
ix.	Control arm bottom									SF		
x.	Top rubber Pad									SIH		
xi.	Vertical Bump Stop									SIH		
xii.	Ball Joint Control arm									SIH		
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									EMSON		
xxi.	Ball joint roll link									ESSEN	SAI	
xxii.	Fork make									RF		
11.4												
i.	Modification/Trail(if any):			NIL								
ii.	Deviations (if any):			Deviations (If any): NIL								

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY		LVPHX SWR	Shell No COUPLING TYPE	2138 CBC	COACH_NO DATE OF FITMENT	22700 23-FEB-23
S. PL No & No. Item Description		Drawing No			Make	Item Sr.No. (if any)
Group Name BOGIE PP SIDE						
1	33635067-1, BOGIE 1		EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRONICS	BOGIE NO 236319
Group Name BOGIE NPP SIDE						
2	33635067-2, BOGIE 2		EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRICAL	BOGIE NO 236320
Group Name UNDER FRAME						
3	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.	22000164386 004
4					VIMAL TRANSFORMER	5544
5	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.	09225129
6	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO		LW71001,ALT-I.		UPS INTERNATIONA L	2209055
7	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.		M B & COMPANY	102200011
8	33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9		RDSO/PE/SPEC/AC/0009- 2014, REV-2, PRECHARGED.		AMAR ARAJA	10-22
9	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.		TRINITRON CONTROL SYSTEM PVT. LTD.	23-01-0008



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ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY	LVPHX SWR	Shell No COUPLING TYPE	2138 CBC	COACH_NO DATE OF FITMENT	22700 23-FEB-23	
S. PL No & No. Item Description		Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
10	33642813-3, 16 PIN CONTROL COUPLER & UIC CONTROL CABLE	EL/LVPHX VERSION 3		S. INTERNATIONALS	NIL	
11	33650184-0, BATTERY BOX MOUNTING, as per Drawing : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT.	1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117		MEENAKASHI ENG. WORKS	NIL	
Group Name COMPARTMENT						
12	33642837-0, LED BASED LIGHT FITTING FOR VPH COACHES TYPE-J2, WITH FIRE PROOF MEASURES TO DRG NO.CC76457, ALT-A,	RDSO/PE/SPEC/TL/0091- 2016, REV-1, WITH RCF ANNEX. 1, 2&3.		INTEG	NIL	
Group Name UNDER FRAME PP SIDE						
13	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
14	33642813-1, FEEDER JUNCTION BOX PP SIDE	EL/LVPHX VERSION 3		INDORAIL	NIL	
Group Name UNDER FRAME NPP SIDE						
15	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
16	33642813-2, FEEDER JUNCTION BOX NPP SIDE	EL/LVPHX VERSION 3		INDORAIL	NIL	
SSE/EL/QC			AME/WM QC/DY CQM I			



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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO 2134	BOGIE NO	RCF- 236315	/ RCF- 236316	DISPATCH DATE	24-FEB-23
2.	RAILWAY SWR	TYPE OF COACH	LVPHX	COACH NO		227003
3.	BOOKED TO	SSE/C&W/HUBLI				
4.	Tare Weight of Coach	33.5 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage 24 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		1096	1102
	v)	CBC (Make)			ESCORTS	ESCORTS
	vi)	CBC (No)			0152-0168	0140-0151
	vii)	Buffer (Make)				
	viii)	Buffer (Height)			1100	1100
					1105	1105
7.	Air Brake Testing:	Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec	
			Max Pressure in BC		3.80±0.15 Kg/cm ²	
			All Brake are applied		OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application	
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply	
8.	Painting Details:	Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU	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	NOT APPLICABLE			
	2	LUGGAGE RACK	RAIL FAB			
	3	EP BRAK / BRAKE EQUIPMENT	ESCORTS			
	4	ROOF CEILING	RAIL FAB			
	5	FIBA DEVICE	TOP GRIP			
	6	YAW DAMPER	IAI			
	7	PARTITION FRAME	NOT TRACEABLE			
	8	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE			
	9	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE			
	10	PARTITION FRAME TYPE	PROTECTION FRAME			
13.	10.1	Modification/ Trial (If any): NIL				
	10.2	Deviations (If any): NIL				



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		2134	SWR	LVPHX	227003	24-FEB-23

11.1 Wheel & Axle Details:

i.	Bogie No.	RCF-236315				RCF-236316			
ii.	Frame No.	RCF-NONAC-3016				RCF-NONAC-3074			
iii.	Bolster No.	AMIT-693				RCF-BI-5818			
iv.	Axle No.	SAIL - 07429		SAIL - 04535		SAIL - 08179		SAIL - 07673	
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	917.50	917.00	917.00	917.00
vii.	Wheel Disc No.	61370-2T08-TZ	61368-2T08-TZ	14127-2V15-TZ	08203-2T51-TZ	11185-2T55-TZ	58440-2S69-TZ	00258-120-RNL	00258-107-RNL
viii.	RB Nos.	418531	415751	414875	413542	418515	418595	509176	417478
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-140-22-01-15242	AVADH-140-22-01-15287	AVADH-140-22-01-15381	AVADH-140-22-01-15379

Items traceability:

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-22-06	CMSTL
	ii.	Primary inner Spring	CMSTL-22-02	CMSTL
	iii.	Primary Damper	AC11395, AC10727, AC11662, AC11756	IAI
	iv.	Secondary Damper	AB74174, AB73499	IAI
	v.	Lateral Damper	L7021	ESCORTS
	vi.	Brake cylinder & Caliper	7440-2210, 74833-2120, 74401-2210, 74962-2120	ESCORTS
	vii.	Brake Disc		KBI
	viii.	Contral arm top		SFL
	ix.	Control arm bottom		SFL
	x.	Top rubber Pad		SIH
	xi.	Vertical Bump Stop		SIH
	xii.	Ball Joint Control arm		SIH
	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		EMSON
	xxi.	Ball joint roll link		ESSEN
	xxii.	Fork make		RF

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

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ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY	LVPHX SWR	Shell No COUPLING TYPE	2134 CBC	COACH_NO DATE OF FITMENT	22700 24-FEB-23	
S. PL No & No. Item Description		Drawing No		Make	Item Sr.No. (if any)	
Group Name BOGIE PP SIDE						
1	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRONICS	BOGIE NO 236315	
Group Name BOGIE NPP SIDE						
2	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRONICS	BOGIE NO 236316	
Group Name UNDER FRAME						
3	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.	22000164386 0469	
4				VIMAL TRANSFORMER	5566	
5	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.	092225167	
6	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO	LW71001,ALT-I.		UPS INTERNATIONA L	2209074	
7	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.		M B & COMPANY	10220012	
8	33641729-0, 70AH, 110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0009- 2014, REV-2, PRECHARGED.		AMAR ARAJA	10-22	
9	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.		TRINITRON CONTROL SYSTEM PVT. LTD.	23-01-0011	



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ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY		LVPHX SWR	Shell No COUPLING TYPE	2134 CBC	COACH_NO DATE OF FITMENT	22700 24-FEB-23
S. PL No & No. Item Description		Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME						
10	33642813-3, 16 PIN CONTROL COUPLER & UIC CONTROL CABLE		EL/LVPHX VERSION 3		INDORAIL	NIL
11	33650184-0, BATTERY BOX MOUNTING, as per Drawing : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT.		1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117		MEENAKASHI ENG. WORKS	NIL
Group Name COMPARTMENT						
12	33642837-0, LED BASED LIGHT FITTING FOR VPH COACHES TYPE-J2, WITH FIRE PROOF MEASURES TO DRG NO.CC76457, ALT-A,		RDSO/PE/SPEC/TL/0091- 2016, REV-1, WITH RCF ANNEX. 1, 2&3.		INTEG	NIL
Group Name UNDER FRAME PP SIDE						
13	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A		RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL
14	33642813-1, FEEDER JUNCTION BOX PP SIDE		EL/LVPHX VERSION 3		INDORAIL	NIL
Group Name UNDER FRAME NPP SIDE						
15	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A		RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL
16	33642813-2, FEEDER JUNCTION BOX NPP SIDE		EL/LVPHX VERSION 3		INDORAIL	NIL
SSE/EL/QC			AME/WM QC/DY CQM I			



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2139	BOGIE NO	RCF- 236265	/ RCF- 236266	DISPATCH DATE	28-FEB-23
2.	RAILWAY	SWR	TYPE OF COACH	LVPHX		COACH NO	227006
3.	BOOKED TO	SSE/C&W/HUBLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	24 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			1105	1105
	v)	CBC (Make)				SANROK	SANROK
	vi)	CBC (No)				T.1521-T.1497	T.1491-T.1505
	vii)	Buffer (Make)					
	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			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			NOT APPLICABLE		
	2	LUGGAGE RACK			RAIL FAB		
	3	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	4	ROOF CEILING			RAIL FAB		
	5	FIBA DEVICE			ESCORTS		
	6	YAW DAMPER			IAI		
	7	PARTITION FRAME			NOT TRACEABLE		
	8	PILLAR ASSLY LONGI SIDE			NOT APPLICABLE		
	9	PILLAR ASSLY TRANSVERSE			NOT APPLICABLE		
	10	PARTITION FRAME TYPE			SS PROTECTION FRAME		
13.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		2139	SWR	LVPHX	227006	28-FEB-23

11.1 Wheel & Axle Details:

i.	Bogie No.	RCF-236265				RCF-236266			
ii.	Frame No.	RCF-NONAC-3008				RCF-NONAC-3005			
iii.	Bolster No.	SHIVALIK-403				SHIVALIK-410			
iv.	Axle No.	SAIL - 06090		SAIL - L7368		SAIL - 07258		SAIL - 07593	
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	917.50	917.00	917.00	917.00
vii.	Wheel Disc No.	00462-146-RNL	00158-007-RNL	00258-136-RNL	00258-121-RNL	00260-206-RNL	00258-281-RNL	00258-180-RNL	00258-142-RNL
viii.	RB Nos.	418467	509249	417597	509125	418416	418181	508509	509214
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-140-22-01-15284	AVADH-140-22-01-15269	AVADH-140-22-01-15311	AVADH-140-22-01-15296

Items traceability:

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-22-06	CMSTL
	ii.	Primary inner Spring	CMSTL-22-08	CMSTL
	iii.	Primary Damper	AC11842, AC11194, AC11778, AC11697	IAI
	iv.	Secondary Damper	AB74259, AB74121	IAI
	v.	Lateral Damper	71107	ESCORTS
	vi.	Brake cylinder & Caliper	75967-2210, 74982-2120, 75966-2210, 74979-2120	ESCORTS
	vii.	Brake Disc		KBI
	viii.	Contral arm top		SFL
	ix.	Control arm bottom		SF
	x.	Top rubber Pad		SIH
	xi.	Vertical Bump Stop		SIH
	xii.	Ball Joint Control arm		SIH
	xiii.	Lateral Bump stop		SIH
	xiv.	Traction center make		RF
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		NAPL
	xvii.	Traction center elastic		NAPL
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		CFPL
	xxi.	Ball joint roll link		SAI
	xxii.	Fork make		RF

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

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY		LVPHX SWR	Shell No COUPLING TYPE	2139 CBC	COACH_NO DATE OF FITMENT	22700 28-FEB-23
S. PL No & No. Item Description		Drawing No			Make	Item Sr.No. (if any)
Group Name BOGIE PP SIDE						
1	33635067-1, BOGIE 1		EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRONICS	BOGIE NO 236265
Group Name BOGIE NPP SIDE						
2	33635067-2, BOGIE 2		EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		PRIME ELECTRICAL	BOGIE NO 236266
Group Name UNDER FRAME						
3	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.	210300- 636508-0014
4					VIMAL TRANSFORMER	5551
5	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.	09225177
6	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO		LW71001,ALT-I.		UPS INTERNATIONA L	2209083
7	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.		M B & COMPANY	102200010
8	33641729-0, 70AH, 110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9		RDSO/PE/SPEC/AC/0009- 2014, REV-2, PRECHARGED.		HBL	10-22
9	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.		TRINITRON CONTROL SYSTEM PVT. LTD.	23-01-0013



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB VP PARCEL VAN HIGH CAPACITY COACH						
TYPE OF COACH RAILWAY		LVPHX SWR	Shell No COUPLING TYPE	2139 CBC	COACH_NO DATE OF FITMENT	22700 28-FEB-23
S. PL No & No. Item Description		Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME						
10	33642813-3, 16 PIN CONTROL COUPLER & UIC CONTROL CABLE		EL/LVPHX VERSION 3		S. INTERNATIONALS	NIL
11	33650184-0, BATTERY BOX MOUNTING, as per Drawing : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT.		1 10113.0.76.700.005 EXCEPT ITEM NO. 5, 22, 23, 25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117		MEENAKASHI ENG. WORKS	NIL
Group Name COMPARTMENT						
12	33642837-0, LED BASED LIGHT FITTING FOR VPH COACHES TYPE-J2, WITH FIRE PROOF MEASURES TO DRG NO.CC76457, ALT-A,		RDSO/PE/SPEC/TL/0091- 2016, REV-1, WITH RCF ANNEX. 1, 2&3.		R.T. VISION	NIL
Group Name UNDER FRAME PP SIDE						
13	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A		RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL
14	33642813-1, FEEDER JUNCTION BOX PP SIDE		EL/LVPHX VERSION 3		INDORAIL	NIL
Group Name UNDER FRAME NPP SIDE						
15	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A		RDSO/PE/SPEC/AC/0177- 2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL
16	33642813-2, FEEDER JUNCTION BOX NPP SIDE		EL/LVPHX VERSION 3		INDORAIL	NIL
SSE/EL/QC			AME/WM QC/DY CQM I			