



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2248	BOGIE NO	RCF-236047	/ RCF-236048	DISPATCH DATE	13-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227758	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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		1092	1090	
	v)	CBC (Make)			FRONTIER	FRONTIER	
	vi)	CBC (No)			2571 22	2572 116	
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, SHIVALIK, RAIL FAB, RAIL TECH				
	7	COMPOSITE MODULAR TOILET	CMT				
	8	LAVATORY DOORS	CMT				
	9	SEAT & BEARTH	TWPL				
	10	BIO-TOILET	OASIS, OASIS, OASIS, OASIS				
	11	EP BRAK / BRAKE EQUIPMENT	KBI				
	12	ASPRATING SMOKE & FIRE DETECTON SYSTEM	J.K EXIM PVT LTD				
	13	ODOUR DISPENSER MAKE	ACME/DELHI				
	14	COMPARTMENT DOOR	BLNK				
	15	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	16	COMPACT DUSTBIN	CMT				
	17	FIBA DEVICE	TOP GRIP				
	18	YAW DAMPER	ESCORTS				
	19	PARTITION FRAME TYPE	HONEY COMB				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

	20	PARTITION FRAME	PUNJAB LAMINATE
	21	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	22	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
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
		2248	ECOR	LACCWX	227758	13-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-236047				RCF-236048			
ii.	Frame No.	SCI-FM-5202				RKFL-284			
iii.	Bolster No.	SHIVALIK-321				AMIT-237			
iv.	Axle No.	SAIL - L7313		SAIL - L4514		SAIL - 06425		SAIL - 07975	
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.	58339-2SG6-TZ	69759-2V60-TZ	17482-2V57-TZ	66042-2V37-TZ	19812-2SF9-TZ	18426-2T46-TZ	69761-2V60-TZ	68487-2S61-TZ
viii.	RB Nos.	17181	23930	29178	17182	28134	24538	23927	29132
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10579	AVADH-120-22-12-10572	AVADH-120-22-12-10332	AVADH-120-22-12-10243

Items traceability:					
11.3	Sno. Item				Make
i.	Primary Outer Spring	CMSTL-22-10		CMSTL-22-03	CMSTL
ii.	Primary inner Spring	CMSTL-22-05		CMSTL-21-11	CMSTL
iii.	Primary Damper	58061, 57749, 58073, 58391		57578, 57857, 57884, 58141	SABOHEMA
iv.	Secondary Damper	12984, 12145		12187, 13230	SABOHEMA
v.	Lateral Damper	8694		8407	ESCORTS
vi.	Brake cylinder & Caliper	B2928-213, B2032-213, B2930-213, B2022-213		B4834-213, B3663-213, B4763-213, B3647-213	KBI
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				EMSON
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				FS
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

LACCWX - 2248



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2248 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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	3522283131
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-570/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1521
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1324
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5197373
6	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	22071733
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO.-EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			MODERN RAIL EQUIPMENT MANUFACTURES PVT. LTD,	22/11/103
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO.-EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			MODERN RAIL EQUIPMENT MANUFACTURES PVT. LTD,	SCHALTBAU
Group Name NON-PP SIDE						



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2248 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22064478
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236047
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236048
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-682/08-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4228
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3530
15	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.	07222695
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.			UPS INTERNATIONA L	2209011
17	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.			AMARA RAJA BATTERIES LTD.	09/22



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ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2248 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		INTEG ELECTRONICS	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		RT VISION TECHNOLOGIES PVT. LTD.	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		RT VISION TECHNOLOGY PVT LTD	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		PRIME ELECTRICAL	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT. LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-144	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		PRIME ELECTRICAL	NIL	



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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2248 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23
S. No.	PL No & Item Description		Drawing No		Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX		EDTS328.Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT.LTD	NIL
SSE/EL/QC			AME/WM QC/DY CQM I			



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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2252	BOGIE NO	RCF-236005	/ RCF-236006	DISPATCH DATE	13-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227760	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
				PP Side		NPP Side	
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1102	1100	
	v)	CBC (Make)			NWFP	NWFP	
	vi)	CBC (No)			693 36P3	694 34P4	
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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 MARKETING, 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, AMEEN JI				
	4	BODY SIDE DOOR	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, SHIVALIK, RAIL FAB, RAIL TECH				
	7	COMPOSITE MODULAR TOILET	CMT				
	8	LAVATORY DOORS	CMT				
	10	BIO-TOILET	OASIS, OASIS, OASIS, OASIS				
	11	EP BRAK / BRAKE EQUIPMENT	KBI				
	12	ASPRATING SMOKE & FIRE DETECTON SYSTEM	J.K EXIM PVT LTD				
	13	ODOUR DISPENSER MAKE	ACME/DELHI				
	14	COMPARTMENT DOOR	BLNK				
	15	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	16	COMPACT DUSTBIN	CMT				
	17	FIBA DEVICE	ESCORTS				
	18	YAW DAMPER	ESCORTS				
	19	PARTITION FRAME TYPE	HONEY COMB				
	20	PARTITION FRAME	MILTON INDUSTRIES LT				



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	21	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	22	SEAT & BEARTH	TWPL
	22	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
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
		2252	ECOR	LACCWX	227760	13-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-236005				RCF-236006			
ii.	Frame No.	RKFL-339				RKFL-283			
iii.	Bolster No.	SHIVALIK-317				RCF-PP-5740			
iv.	Axle No.	SAIL - 07987		SAIL - 07488		SAIL - 01016		SAIL - 03166	
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	917.50
vii.	Wheel Disc No.	10120-2T44-TZ	10688-2T84-TZ	69976-2V56-TZ	56391-2R72-TZ	07701-2R77-TZ	10859-2T57-TZ	69701-2V31-TZ	08310-2T51-TZ
viii.	RB Nos.	28080	15648	24663	28059	29161	23954	28642	28071
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10495	AVADH-120-22-12-10490	AVADH-120-22-11-10067	AVADH-120-22-11-10065

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-22-03	CMSTL-22-01
	ii.	Primary inner Spring	CMSTL-21-11	CMSTL-21-11
	iii.	Primary Damper	58024, 58169, 58479, 57746	58015, 58067, 57995, 58238
	iv.	Secondary Damper	12495, 13194	13561, 13197
	v.	Lateral Damper	8755	8403
	vi.	Brake cylinder & Caliper	B4708-213, B3673-213, B4681-213, B3380-213	B4781-213, B3742-213, B4785-213, B3697-213
	vii.	Brake Disc		KBI
	viii.	Contral arm top		SF
	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
	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		FS
	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

LACCWX - 2252



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2252 CBC	COACH_NO DATE OF FITMENT	22776 12-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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	3522232659
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-566/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1481
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1479
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5197377
6	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	22071740
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			INTERNATIONAL SWITCHGEARS	22/09/0230
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			INTERNATIONAL SWITCHGEARS	SCHALTBAU
Group Name NON-PP SIDE						



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS					QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2252 CBC	COACH_NO DATE OF FITMENT	22776 12-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22092719
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236005
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236006
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-756/09-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4230
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3483
15	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.	07222624
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.			UPS INTERNATIONA L	2209230
17	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 POWER SYSTEMS LIMITED	09/22



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2252 CBC	COACH_NO DATE OF FITMENT	22776 12-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		MEEENAKSHI	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		FIEM INDUSTRIES LTD.	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		INTEG ELECTRONICS	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		FRONTLINE	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		PRIME ELECTRICAL	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328.Rev-C, AM-7, TYPE-2.		INDO RAIL ENGINEERING SYSTEMS PVT. LTD.	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-238	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		PRIME ELECTRICAL	NIL	



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ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2252 CBC	COACH_NO DATE OF FITMENT	22776 12-JAN-23
S. No.	PL No & Item Description		Drawing No		Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX		EDTS328.Rev-C,AM-7,TYPE-2.		INDO RAIL ENGINEERING SYSTEMS PVT. LTD.	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	2244	BOGIE NO	RCF-228938	/ RCF-228939	DISPATCH DATE	16-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227761	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
						PP Side	NPP Side
	iv)	CBC Height	Specified: 1105 +0/-15 mm			1105	1095
	v)	CBC (Make)				FRONTIER	FRONTIER
	vi)	CBC (No)				2627 56	2628 106
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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, SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	WRM				
	4	BODY SIDE DOOR	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, RAIL FAB, RAIL FAB, RAIL FAB				
	7	COMPOSITE MODULAR TOILET	CMT				
	8	LAVATORY DOORS	CMT				
	9	SEAT & BEARTH	TWPL				
	10	BIO-TOILET	PD STEEL, PD STEEL, PD STEEL, PD STEEL				
	11	EP BRAK / BRAKE EQUIPMENT	KBI				
	12	ASPRATING SMOKE & FIRE DETECTON SYSTEM	SANROK				
	13	ODOUR DISPENSER MAKE	ACME/DELHI				
	14	COMPARTMENT DOOR	BLNK				
	15	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	16	COMPACT DUSTBIN	CMT				
	17	FIBA DEVICE	TOP GRIP				
	18	YAW DAMPER	ESCORTS				
	19	PARTITION FRAME TYPE	HONEY COMB				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	20	PARTITION FRAME	MILTON INDUSTRIES LT
	21	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	22	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
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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QMF 9829, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			2244		ECOR		LACCWX		227761		16-JAN-23	
11.1 Wheel & Axle Details:												
i.	Bogie No.	RCF-228938					RCF-228939					
ii.	Frame No.	ECBT-3374					ECBT-3420					
iii.	Bolster No.	NE-347					SHIVALIK-321					
iv.	Axle No.	CRRC - A50502117		CRRC - A50501891		SAIL - L4999			SAIL - 05163			
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.	61592-2T15-TZ	57522-2SF4-TZ	60286-2T03-TZ	61591-2T15-TZ	61590-2T19-TZ	57521-2SF4-TZ	60139-2S58-TZ	12529-2T47-TZ			
viii.	RB Nos.	32608	14106	3222896	3200869	32586	3200874	3201001	28120			
ix.	RB Make	SKF		SKF		SKF			SKF			
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-120-22-11-10187		AVADH-120-22-11-10173		AVADH-120-22-11-10333		AVADH-120-22-11-10254				
Items traceability:												
11.3												
Sno.	Item								Make			
i.	Primary Outer Spring		CMSTL-22-03			CMSTL-22-03			CMSTL			
ii.	Primary inner Spring		CMSTL-21-11			CMSTL-21-11			CMSTL			
iii.	Primary Damper		58134, 56444, 57897, 56709			57044, 58045, 57434, 057026			SABOHEMA			
iv.	Secondary Damper		1592, 1633			1593, 1587			GABRIEL			
v.	Lateral Damper		8712			8614			ESCORTS			
vi.	Brake cylinder & Caliper		B2666-213, B1984-213, B2652-213, B1983-213			B2971-213, B2036-213, B2972-213, B2034-213			KBI			
vii.	Brake Disc								KBI			
viii.	Contral arm top								SF		RV	
ix.	Control arm bottom								SF		RV	
x.	Top rubber Pad								SIH		NAPL	
xi.	Vertical Bump Stop								SIH			
xii.	Ball Joint Control arm								NAPL		SIH	
xiii.	Lateral Bump stop								NAPL		SIH	
xiv.	Traction center make								RF			
xv.	Traction lever make								JI			
xvi.	Ball joint traction lever								SIH			
xvii.	Traction center elastic								NAPL			
xviii.	Secondary rubber pad								NA			
xix.	Rubber spring								NA			
xx.	Anti roll bar make								FS			
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									

LACCWX - 2244



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2244 CBC	COACH_NO DATE OF FITMENT	22776 16-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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	3522232664
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-572/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1368
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1497
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5197341
6	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.			IC ELECTRICALS COMPANY PVT. LTD	11/22/0001
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			ELECTRO WAVES ELECTRONICS PVT. LTD.	22/11/0128
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			ELECTRO WAVES ELECTRONICS PVT. LTD.	TECHNOTREND Z
Group Name NON-PP SIDE						



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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 AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2244 CBC	COACH_NO DATE OF FITMENT	22776 16-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22042464
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	228938
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	228939
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-796/09-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4210
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3548
15	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.	07222703
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.			UPS INTERNATIONA L	2204071
17	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.			AMARA RAJA BATTERIES LTD.	09/22



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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 AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2244 CBC	COACH_NO DATE OF FITMENT	22776 16-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		FIEM INDUSTRIES LTD.	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		INTEG ELECTRONICS	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		FRONTLINE	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT.LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-241	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2244 CBC	COACH_NO DATE OF FITMENT	22776 16-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX	EDTS328.Rev-C,AM-7,TYPE-2.			INDO RAIL ENGINEERING SYSTEMS PVT. LTD.	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	2250	BOGIE NO	RCF-236073	/ RCF-236074	DISPATCH DATE	16-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227759	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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	1104
	v)	CBC (Make)				SANROK	SANROK
	vi)	CBC (No)				2675 2664	2661 2669
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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, SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	WRM				
	4	BODY SIDE DOOR	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, RAIL FAB, RAIL FAB, RAIL TECH				
	7	COMPOSITE MODULAR TOILET	CMT				
	8	LAVATORY DOORS	CMT				
	9	SEAT & BEARTH	TWPL				
	10	BIO-TOILET	AMIT MOHALI, AMIT MOHALI, AMIT MOHALI, AMIT MOHALI				
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	12	ASPRATING SMOKE & FIRE DETECTON SYSTEM	J.K EXIM PVT LTD				
	13	ODOUR DISPENSER MAKE	ACME/DELHI				
	14	COMPARTMENT DOOR	BLNK				
	15	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	16	COMPACT DUSTBIN	CMT				
	17	FIBA DEVICE	ESCORTS				
	18	YAW DAMPER	ESCORTS				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	19	PARTITION FRAME TYPE	HONEY COMB
	20	PARTITION FRAME	MILTON INDUSTRIES LT
	21	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	22	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
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
		2250	ECOR	LACCWX	227759	16-JAN-23

11.1 Wheel & Axle Details:

i.	Bogie No.	RCF-236073				RCF-236074			
ii.	Frame No.	SCI-FM-5196				SCI-FM-5200			
iii.	Bolster No.	SHIVALIK-313				SHIVALIK-323			
iv.	Axle No.	SAIL - 07194		SAIL - 07166		SAIL - 07922		SAIL - L5258	
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.	15461-2S59-TZ	09452-2T61-TZ	67178-2S81-TZ	09719-2V26-TZ	65648-2S74-TZ	70316-2V38-TZ	15648-2T82-TZ	10877-2T29-TZ
viii.	RB Nos.	5202199	5202146	5202209	3200982	14096	24117	3200943	5202437
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10517	AVADH-120-22-12-10505	AVADH-120-22-12-10569	AVADH-120-22-12-10492

Items traceability:

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-22-10	CMSTL
	ii.	Primary inner Spring	CMSTL-22-05	CMSTL
	iii.	Primary Damper	8581, 8529, 8579, 8570	GABRIEL
	iv.	Secondary Damper	13292, 12648	SABOHEMA
	v.	Lateral Damper	8348	ESCORTS
	vi.	Brake cylinder & Caliper	1345-600,0052-600, 1347-600,0055-600	FTI
	vii.	Brake Disc		KBI
	viii.	Contral arm top		SARITA
	ix.	Control arm bottom		SARITA
	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		EMSON
	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

LACCWX - 2250



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2250 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23	
S. PL No & No. Item Description		Drawing No		Make	Item Sr.No. (if any)	
Group Name PP-SIDE						
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		FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	I-7169	
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.		LIGHT ENGG CORP	R-631/06-22	
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.		DAULAL RAM ENGG. SERVICES PVT. LTD.	1324	
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.		DAULAL RAM ENGG. SERVICES PVT. LTD.	1343	
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA (PUNJAB RADIO)	5197350	
6	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	22071737	
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.		ELECTRO WAVES ELECTRONICS PVT. LTD.	22/11/129	
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.		ELECTRO WAVES ELECTRONICS PVT. LTD.	TECHNOTREND Z	
Group Name NON-PP SIDE						



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2250 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMs PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22062482
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236074
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236073
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-768/09-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4269
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3556
15	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.	07222739
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.			UPS INTERNATIONA L	2209091
17	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.			AMARA RAJA BATTERIES LTD.	09/22



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2250 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23	
S. No.	PL No & Item Description	Drawing No	Make	Item Sr.No. (if any)		
Group Name UNDER FRAME						
18	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	GOPAL ENGINEERING WORKS	NIL		
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.	AHUJA BY PUNJAB RADIOS	NIL		
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.	INTEG ELECTRONICS	NIL		
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.	FIEM	NIL		
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3	FRONTLINE	NIL		
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3	DHINGRA ENGINEERING WORKS	NIL		
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.	MAA LAXMI INDUSTRIES	NIL		
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.	RSI SWITCHGEAR PVT.LTD	NIL		
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.	UPS INTERNATIONAL	22-08-283		
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.	MAA LAXMI INDUSTRIES	NIL		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2250 CBC	COACH_NO DATE OF FITMENT	22775 13-JAN-23
S. No.	PL No & Item Description		Drawing No		Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX		EDTS328.Rev-C,AM-7,TYPE-2.		INDO RAIL ENGINEERING SYSTEMS PVT. LTD.	NIL
SSE/EL/QC			AME/WM QC/DY CQM I			



RAIL COACH FACTORY, KAPURTHALA
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(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	2239	BOGIE NO	RCF-236029	/ RCF-236030	DISPATCH DATE	17-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227762	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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		1105	1100	
	v)	CBC (Make)			FRONTIER	FRONTIER	
	vi)	CBC (No)			312 26P4	312 38P3	
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, SHIVALIK, AMIT MOHALI, RAIL TECH				
	7	COMPOSITE MODULAR TOILET	JSL				
	8	LAVATORY DOORS	JSL				
	9	SEAT & BEARTH	TWPL				
	10	BIO-TOILET	OASIS, OASIS, OASIS, OASIS				
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	12	ASPRATING SMOKE & FIRE DETECTON SYSTEM	SANROK				
	13	ODOUR DISPENSER MAKE	ACME/DELHI				
	14	COMPARTMENT DOOR	BLNK				
	15	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	16	COMPACT DUSTBIN	JSL				
	17	FIBA DEVICE	ESCORTS				
	18	YAW DAMPER	ESCORTS				
	19	PARTITION FRAME TYPE	HONEY COMB				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	20	PARTITION FRAME	MILTON INDUSTRIES LT
	21	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	22	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
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
		2239	ECOR	LACCWX	227762	17-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-236029				RCF-236030			
ii.	Frame No.	ECBT-3349				ECBT-3351			
iii.	Bolster No.	NE-307				NE-306			
iv.	Axle No.	SAIL - 01625		SAIL - 01626		SAIL - 05360		SAIL - 07696	
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.	09661-2V26-TZ	10431-2T40-TZ	10424-2T40-TZ	16479-2V17-TZ	08937-2T41-TZ	10552-2V26-TZ	69757-2VG0-TZ	58337-2SG6-TZ
viii.	RB Nos.	16694	16522	16677	16567	24274	47964	47943	14366
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10479	AVADH-120-22-12-10568	AVADH-120-22-12-10523	AVADH-120-22-12-10526

Items traceability:					
11.3	Sno. Item				Make
	i. Primary Outer Spring	CMSTL-22-10			CMSTL
	ii. Primary inner Spring	CMSTL-22-04			CMSTL
	iii. Primary Damper	56825, 57048, 56838, 56904			SABOHEMA
	iv. Secondary Damper	12948, 13401			SABOHEMA
	v. Lateral Damper	8400			ESCORTS
	vi. Brake cylinder & Caliper	1244-600,0017-600, 1245-600,0019-600			FTI
	vii. Brake Disc				KBI
	viii. Contral arm top				SF
	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
	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				RF

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

LACCWX - 2239



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2239 CBC	COACH_NO DATE OF FITMENT	22776 17-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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			FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	I-8257/10- 22
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-556/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1491
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1484
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5197352
6	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.			IC ELECTRICALS COMPANY PVT. LTD	11/22/0019
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			HINDUSTAN FIBRE GLASS WORKS PVT. LTD.	22/11/0106
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			HINDUSTAN FIBRE GLASS WORKS PVT. LTD.	L&T
Group Name NON-PP SIDE						



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2239 CBC	COACH_NO DATE OF FITMENT	22776 17-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMs PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA2206274
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236029
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236030
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-663/08-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4212
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3550
15	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.	07222654
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO	LW71001,ALT-I.			UPS INTERNATIONA L	2209037
17	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.			AMARA RAJA BATTERIES LTD.	09/22



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2239 CBC	COACH_NO DATE OF FITMENT	22776 17-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		INTEG ELECTRONICS	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		INTEG ELECTRONICS	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		RT VISION TECHNOLOGY PVT LTD	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT. LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-06-274	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2239 CBC	COACH_NO DATE OF FITMENT	22776 17-JAN-23
S. No.	PL No & Item Description		Drawing No		Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX		EDTS328.Rev-C, AM-7, TYPE-2.		INDO RAIL ENGINEERING SYSTEMS PVT. LTD.	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	2232	BOGIE NO	RCF-229016	/ RCF-229017	DISPATCH DATE	20-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227757	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
						PP Side	NPP Side
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1100	1105	
	v)	CBC (Make)			ESCORTS	ESCORTS	
	vi)	CBC (No)			2202-2022	1997-2016	
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	RAIL FAB, RAIL FAB, RAIL FAB, RAIL FAB				
	7	COMPOSITE MODULAR TOILET	CMT				
	8	LAVATORY DOORS	CMT				
	9	BIO-TOILET	PD STEEL, PD STEEL, PD STEEL, PD STEEL				
	10	EP BRAK / BRAKE EQUIPMENT	KBI				
	11	ASPRATING SMOKE & FIRE DETECTON SYSTEM	J.K EXIM PVT LTD				
	12	ODOUR DISPENSER MAKE	ACME/DELHI				
	13	COMPARTMENT DOOR	BLNK				
	14	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	15	COMPACT DUSTBIN	CMT				
	16	FIBA DEVICE	ESCORTS				
	17	YAW DAMPER	ESCORTS				
	18	PARTITION FRAME TYPE	HONEY COMB				
	19	PARTITION FRAME	PUNJAB LAMINATE				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	20	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	21	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
	22	SEAT & BEARTH	TWPL
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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QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		2232	ECOR	LACCWX	227757	20-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-229016				RCF-229017			
ii.	Frame No.	AMIT-86				RAIL TECH-1942			
iii.	Bolster No.	SHIVALIK-308				SHIVALIK-292			
iv.	Axle No.	SAIL - 05696		SAIL - 07647		SAIL - 07700		SAIL - 07447	
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.	68773-2T63-TZ	11321-2V09-TZ	10521-2T62-TZ	17069-2V33-TZ	58394-2SG9-TZ	09845-2V26-TZ	69027-2T76-TZ	68914-2T60-TZ
viii.	RB Nos.	29138	28207	10623	14793	28424	28423	10422	29816
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10522	AVADH-120-22-12-10578	AVADH-120-22-12-10583	AVADH-120-22-12-10595

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-22-03	CMSTL-22-03
	ii.	Primary inner Spring	CMSTL-21-11	CMSTL-21-11
	iii.	Primary Damper	56821, 57157, 57993, 56809	58161, 58174, 57511, 58109
	iv.	Secondary Damper	12656, 13129	12050, 12139
	v.	Lateral Damper	8695	8663
	vi.	Brake cylinder & Caliper	B4449-213, B3318-213, B4446-213, B3317-213	B4358-213, B3278-213, B4363-213, B3277-213
	vii.	Brake Disc		KBI
	viii.	Contral arm top		RV
	ix.	Control arm bottom		RV
	x.	Top rubber Pad		NAPL
	xi.	Vertical Bump Stop		SIH
	xii.	Ball Joint Control arm		SIH
	xiii.	Lateral Bump stop		NAPL
	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		FS
	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

LACCWX - 2232



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2232 CBC	COACH_NO DATE OF FITMENT	22775 20-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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	3522283083
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-563/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1336
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1367
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5174534
6	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	22071724
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			HINDUSTAN FIBRE GLASS WORKS PVT. LTD.	22/11/0118
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184-2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			HINDUSTAN FIBRE GLASS WORKS PVT. LTD.	SALZER
Group Name NON-PP SIDE						



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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 AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2232 CBC	COACH_NO DATE OF FITMENT	22775 20-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMs PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22052342
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	229017
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	229016
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-785/09-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4282
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3547
15	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.	07222713
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.			UPS INTERNATIONA L	2209279
17	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.			AMARA RAJA BATTERIES LTD.	09/22



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2232 CBC	COACH_NO DATE OF FITMENT	22775 20-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		INTEG ELECTRONICS	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		RT VISION TECHNOLOGIES PVT. LTD.	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		RT VISION TECHNOLOGY PVT LTD	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		PRIME ELECTRICAL	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT. LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-159	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		PRIME ELECTRICAL	NIL	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2232 CBC	COACH_NO DATE OF FITMENT	22775 20-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX	EDTS328.Rev-C, AM-7, TYPE-2.			RSI SWITCHGEAR PVT.LTD	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	2249	BOGIE NO	RCF-229006	/ RCF-229007	DISPATCH DATE	20-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO		227764
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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		1096	1100	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	CBC (No)			R3.2616-R3.2610	R3.2549-R3.2639	
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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, SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	WRM				
	4	BODY SIDE DOOR	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, SHIVALIK, RAIL FAB, RAIL TECH				
	7	COMPOSITE MODULAR TOILET	JSL				
	8	LAVATORY DOORS	JSL				
	9	BIO-TOILET	PD STEEL, PD STEEL, PD STEEL, PD STEEL				
	10	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	11	ASPRATING SMOKE & FIRE DETECTON SYSTEM	SANROK				
	12	ODOUR DISPENSER MAKE	ACME/DELHI				
	13	COMPARTMENT DOOR	BLNK				
	14	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	15	COMPACT DUSTBIN	JSL				
	16	FIBA DEVICE	ESCORTS				
	17	YAW DAMPER	ESCORTS				
	18	PARTITION FRAME TYPE	HONEY COMB				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	19	PARTITION FRAME	MILTON INDUSTRIES LT
	20	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	21	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
	22	SEAT & BEARTH	TWPL
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	
			2249		ECOR		LACCWX		227764		20-JAN-23	
11.1 Wheel & Axle Details:												
i.	Bogie No.	RCF-229006					RCF-229007					
ii.	Frame No.	RAIL TECH-1944					ECBT-3379					
iii.	Bolster No.	NE-327					NE-340					
iv.	Axle No.	YANTRA - 02400			SAIL - 05311		SAIL - 7292			SAIL - L5394		
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		
vii.	Wheel Disc No.	12140-2V54-TZ	18850-2T77-TZ	08306-2T51-TZ	10524-2T62-TZ	60506-2T02-TZ	09840-2T50-TZ	11092-2T66-TZ	67120-2T73-TZ			
viii.	RB Nos.	15836	32823	32555	21410	15134	15258	15228	15154			
ix.	RB Make	SKF			SKF		SKF			SKF		
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-120-22-12-10567			AVADH-120-22-012-10571		AVADH-120-22-11-10311			AVADH-120-22-11-10298		
Items traceability:												
11.3												
Sno.	Item								Make			
i.	Primary Outer Spring			CMSTL-22-03			CMSTL-22-03			CMSTL		
ii.	Primary inner Spring			CMSTL-21-11			CMSTL-21-11			CMSTL		
iii.	Primary Damper			56858, 57066, 56874, 56509			57334, 56914, 57414, 57340			SABOHEMA		
iv.	Secondary Damper			12759, 13456			13580, 13410			SABOHEMA		
v.	Lateral Damper			7115			7184			ESCORTS		
vi.	Brake cylinder & Caliper			0313-600,0301-600, 0328-600,0300-600			0424-600,0342-600, 0346-600,0337-600			FTI		
vii.	Brake Disc									KBI		
viii.	Control arm top									RV		
ix.	Control arm bottom									RV		
x.	Top rubber Pad									SIH		
xi.	Vertical Bump Stop									SIH	SI	
xii.	Ball Joint Control arm									SIH		
xiii.	Lateral Bump stop									SIH		
xiv.	Traction center make									EMSON		
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									FS		
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								

LACCWX - 2249



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2249 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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			FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	I-8297/11- 22
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-540/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1345
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1503
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5174884
6	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.			IC ELECTRICALS COMPANY PVT. LTD	11/22/0008
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			ELECTRO WAVES ELECTRONICS PVT. LTD.	22/11/121
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			ELECTRO WAVES ELECTRONICS PVT. LTD.	TECHNOTREND Z
Group Name NON-PP SIDE						



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2249 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.		DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22052336	
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		DARSAHN ENTERPRISES	229006	
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1		DARSAHN ENTERPRISES	229007	
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.		LIGHT ENGG CORP.	R-683/08-22	
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)		VIMAL TRANSFORMER CORPORATION	VTC-4208	
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.		VIMAL TRANSFORMER (5KVA)	VTC-3532	
15	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.	07222665	
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.		UPS INTERNATIONA L	2209063	
17	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.		AMARA RAJA BATTERIES LTD.	09/22	



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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 AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2249 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		INTEG ELECTRONICS	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1,2&3.		RT VISION TECHNOLOGIES PVT. LTD.	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1,2&3		RT VISION TECHNOLOGY PVT LTD	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1,2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT. LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-247	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	



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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2249 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23
S. No.	PL No & Item Description		Drawing No		Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX		EDTS328.Rev-C, AM-7, TYPE-2.		INDO RAIL ENGINEERING SYSTEMS PVT. LTD.	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	2251	BOGIE NO	RCF-236013	/ RCF-236014	DISPATCH DATE	20-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227763	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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			1102	1100
	v)	CBC (Make)				SANROK	SANROK
	vi)	CBC (No)				2606-2655	2591-2592
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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, SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	WRM				
	4	BODY SIDE DOOR	KALSI				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, SHIVALIK, RAIL FAB, RAIL FAB				
	7	COMPOSITE MODULAR TOILET	JSL				
	8	LAVATORY DOORS	JSL				
	9	BIO-TOILET	AMIT MOHALI, AMIT MOHALI, AMIT MOHALI, AMIT MOHALI				
	10	EP BRAK / BRAKE EQUIPMENT	KBI				
	11	ASPRATING SMOKE & FIRE DETECTON SYSTEM	SANROK				
	12	ODOUR DISPENSER MAKE	ACME/DELHI				
	13	COMPARTMENT DOOR	BLNK				
	14	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	15	COMPACT DUSTBIN	JSL				
	16	FIBA DEVICE	ESCORTS				
	17	YAW DAMPER	IAI				
	18	PARTITION FRAME TYPE	HONEY COMB				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	19	PARTITION FRAME	MILTON INDUSTRIES LT
	20	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	21	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
	22	SEAT & BEARTH	TWPL
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
		2251	ECOR	LACCWX	227763	20-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-236013				RCF-236014			
ii.	Frame No.	SCI-FM-5163				SCI-FM-5164			
iii.	Bolster No.	NE-318				NE-301			
iv.	Axle No.	SAIL - 07461		SAIL - 01664		SAIL - 05456		SAIL - 01206	
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.	10735-2V20-TZ	10288-2T55-TZ	10705-2V26-TZ	58982-2SF9-TZ	09947-2T62-TZ	18776-2T62-TZ	10734-2T66-TZ	10736-2V20-TZ
viii.	RB Nos.	28075	23937	24869	15452	29657	29859	24872	29176
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10535	AVADH-120-22-12-10508	AVADH-120-22-12-10514	AVADH-120-22-12-10551

Items traceability:					
11.3	Sno. Item				Make
	i. Primary Outer Spring	CMSTL-22-10		CMSTL-22-10	CMSTL
	ii. Primary inner Spring	CMSTL-22-05		CMSTL-22-05	CMSTL
	iii. Primary Damper	58286, 57771, 58258, 57532		57841, 58112, 57013, 57503	SABOHEMA
	iv. Secondary Damper	12701, 13450		12076, 12935	SABOHEMA
	v. Lateral Damper	8675		8439	ESCORTS
	vi. Brake cylinder & Caliper	B4701-213, B3676-213, B4770-213, B3674-213		B4729-213, B3685-213, B4682-213, B3694-213	KBI
	vii. Brake Disc				KBI
	viii. Contral arm top				RV
	ix. Control arm bottom				RV
	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				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

LACCWX - 2251



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2251 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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	3522232671
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-603/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1500
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	1328
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	4795130
6	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.			IC ELECTRICALS COMPANY PVT.LTD	11/22/0010
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO.- EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			MODERN RAIL EQUIPMENT MANUFACTURES PVT. LTD,	22/11/109
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO.- EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			MODERN RAIL EQUIPMENT MANUFACTURES PVT. LTD,	SCHALTBAU
Group Name NON-PP SIDE						



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2251 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMs PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	-----
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236014
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236013
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-825/09-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4233
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3472
15	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.	07222707
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001,ALT-I., Packing Instruction: SUITABLY CO	LW71001,ALT-I.			UPS INTERNATIONA L	2209130
17	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.			AMARA RAJA BATTERIES LTD.	09/22



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2251 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		FIEM INDUSTRIES LTD.	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		INTEG ELECTRONICS	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		FRONTLINE	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT.LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-153	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2251 CBC	COACH_NO DATE OF FITMENT	22776 20-JAN-23
S. No.	PL No & Item Description		Drawing No		Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX		EDTS328.Rev-C, AM-7, TYPE-2.		SIDWAL REFRIGERATIO N INDUSTRIES PVT. LTD	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	2243	BOGIE NO	RCF-236023	/ RCF-236024	DISPATCH DATE	21-JAN-23
2.	RAILWAY	ECOR	TYPE OF COACH	LACCWX	COACH NO	227765	
3.	BOOKED TO	SSE/C&W/BBS					
4.	Tare Weight of Coach	41.6 T					
5.	Carrying Capacity	Seating	54	Sleeping	54	Luggage	NIL
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, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)		
					PP Side	NPP Side	
	iv)	CBC Height	Specified: 1105 +0/-15 mm			1100	1097
	v)	CBC (Make)				FRONTIER	FRONTIER
	vi)	CBC (No)				314-65P3	315-23P3
	vii)	Buffer (Make)					
	viii)	Buffer (Height)					
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	83 / 83
	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	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	WATER TANKS	SHIVALIK, SHIVALIK, RAIL FAB, RAIL FAB				
	7	COMPOSITE MODULAR TOILET	JSL				
	8	LAVATORY DOORS	JSL				
	9	BIO-TOILET	OASIS, OASIS, OASIS, OASIS				
	10	EP BRAK / BRAKE EQUIPMENT	KBI				
	11	ASPRATING SMOKE & FIRE DETECTON SYSTEM	SANROK				
	12	ODOUR DISPENSER MAKE	ACME/DELHI				
	13	COMPARTMENT DOOR	BLNK				
	14	PRESSURIZE FLUSHING SYSTEM	SPAC, SPAC, SPAC, SPAC				
	15	COMPACT DUSTBIN	JSL				
	16	FIBA DEVICE	TOP GRIP				
	17	YAW DAMPER	ESCORTS				
	18	PARTITION FRAME TYPE	HONEY COMB				
	19	PARTITION FRAME	MILTON INDUSTRIES LT				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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	20	PILLAR ASSLY LONGI SIDE	NOT TRACEABLE
	21	PILLAR ASSLY TRANSVERSE	NOT TRACEABLE
	22	SEAT & BEARTH	TWPL
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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QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		2243	ECOR	LACCWX	227765	21-JAN-23

11.1 Wheel & Axle Details:									
i.	Bogie No.	RCF-236023				RCF-236024			
ii.	Frame No.	SCI-FM-5221				SCI-FM-5169			
iii.	Bolster No.	NE-373				NE-374			
iv.	Axle No.	SAIL - L4997		SAIL - 03589		SAIL - 05649		SAIL - 02403	
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.	65077-2S74-TZ	68101-2V03-TZ	68533-2S81-TZ	10743-2V20-TZ	08936-2T55-TZ	10546-2T55-TZ	08964-2T41-TZ	14155-2T56-TZ
viii.	RB Nos.	29127	29894	29107	24656	28064	17535	15983	29175
ix.	RB Make	SKF		SKF		SKF		SKF	
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-120-22-12-10592	AVADH-120-22-12-10589	AVADH-120-22-12-10600	AVADH-120-22-012-10539

Items traceability:						
11.3	Sno. Item				Make	
	i. Primary Outer Spring	CMSTL-22-10			CMSTL-22-10	CMSTL
	ii. Primary inner Spring	CMSTL-22-05			CMSTL-22-05	CMSTL
	iii. Primary Damper	57205, 58360, 57338, 56959			56710, 58031, 57078, 56313	SABOHEMA
	iv. Secondary Damper	13489, 12447			13475, 12150	SABOHEMA
	v. Lateral Damper	8700			8467	ESCORTS
	vi. Brake cylinder & Caliper	1155-600, 1168-600, 1339-600, 1538-600			0158-600, 1401-600, 0163-600, 1268-600	FTI
	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					FS
	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		

LACCWX - 2243



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2243 CBC	COACH_NO DATE OF FITMENT	22776 21-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name PP-SIDE						
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			FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	I-8259
2	33635080-1, PUMP	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP	R-615/06-22
3	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	22B1325
4	33635237-1, RMPU	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	22B1344
5	33640300-1, PA SYSTEM	EDTS173, REV-B, COR-2, TYPE-V.			AHUJA (PUNJAB RADIO)	5197023
6	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	22071755
7	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			RAMYAA ELECTROGEAR	22/10/117/5 4
8	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184- 2015, REV-I, WITH RDSO L.NO. - EL/7.1.108/SBC/MAIN, DATED 7/1/2022.			RAMYAA ELECTROGEAR	SCHALTBAU
Group Name NON-PP SIDE						



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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 AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2243 CBC	COACH_NO DATE OF FITMENT	22776 21-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name NON-PP SIDE						
9	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIAL NOTE:-BELLOW ARRANGEMENT FOR RETURN /SUPPLY/FRESH AIR DUCT AS PER RELEVANT RDSO/RCF DRG SHALL BE PREINSPECTED BY NOMINATED INSPECTION AGENCY FOR EACH LOT OF RMPU AT OEMS PREMISES OF BELLOW.			DAULAL RAM ENGG. SERVICES PVT. LTD.	SA22053252
Group Name BOGIE PP SIDE						
10	33635067-1, BOGIE 1	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236023
Group Name BOGIE NPP SIDE						
11	33635067-2, BOGIE 2	EDTS101, REV-C, AM-2, COR-7.RCF ANNEXURE 1			DARSAHN ENTERPRISES	236024
Group Name UNDER FRAME						
12	33635080-2, PUMP CONTROLLER	EDTS186, REV-A, AM-2, COR-1&2 WITH ANNEX.1.			LIGHT ENGG CORP.	R-817/08-22
13	33635183-0, 60KVA TRANSFORMER, as per Drawing/Specification : RDSO/PE/SPEC/AC/0080- 2007, (REV-2), Packing Instru	RDSO/PE/SPEC/AC/0080- 2007, (REV-2)			VIMAL TRANSFORMER CORPORATION	VTC-4275
14	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing/Specification : EDTS366, REV-N	EDTS366, REV-Nil, COR-2.			VIMAL TRANSFORMER (5KVA)	VTC-3504
15	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.	07222782
16	33640786-0, BATTERY FUSE BOX +VE, as per Drawing/specification: LW71001, ALT-I., Packing Instruction: SUITABLY CO	LW71001, ALT-I.			UPS INTERNATIONA L	2209090
17	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.			EXIDE INDUSTRIES	09/22



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FOR ELECTRICAL ITEMS						QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF						
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY	LACCWX ECOR	Shell No COUPLING TYPE	2243 CBC	COACH_NO DATE OF FITMENT	22776 21-JAN-23	
S. No.	PL No & Item Description	Drawing No		Make	Item Sr.No. (if any)	
Group Name UNDER FRAME						
18	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		GOPAL ENGINEERING WORKS	NIL	
Group Name COMPARTMENT						
19	33640300-2, SPEAKERS	EDTS173, REV-B, COR-2, TYPE-V.		AHUJA BY PUNJAB RADIOS	NIL	
20	33642102-0, EMERGENCY LIGHTING SYSTEM FOR EOG TYPE LHB COACHES, as per Drawing/spec: RDS0/PE/SPEC/AC/0180-2016,R	RDS0/PE/SPEC/AC/0180-2016, REV-0, TYPE-2.		FIEM INDUSTRIES LTD.	NIL	
21	33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES, as per Drawing/Specification : RDS	RDS0/PE/SPEC/TL/0091-2016, REV-1, AS PER DRG LW76099 ALT-B, TYPE-N (9 WATT), RCF, ANNEX-1, 2&3.		INTEG ELECTRONICS	NIL	
22	33642448-0, LED LIGHT FITTING WITH NIGHT LIGHT (CORRIDOR AREA) FOR LHB AC COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76091, ALT-B, TYPE-"M" (9 WATT+1 WATT), RCF, ANNEX-1, 2&3		FRONTLINE	NIL	
23	33642450-0, LED LIGHT FITTING FOR PASSANGER AREA (CABIN) FOR LHB AC TYPE COACHES, as per Drawing/Specification:	RDS0/PE/SPEC/TL/0091-2016, REV-1 AS PER DRG LW76090, ALT-B, TYPE-"L" (18 WATT), RCF, ANNEX-1, 2&3		DHINGRA ENGINEERING WORKS	NIL	
Group Name UNDER FRAME PP SIDE						
24	33640154-1, UNDERFRAME PP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	
25	33640580-1, FEEDR JUNCTION BOX	EDTS328. Rev-C, AM-7, TYPE-2.		RSI SWITCHGEAR PVT.LTD	NIL	
26	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.		UPS INTERNATIONAL	22-08-324	
Group Name UNDER FRAME NPP SIDE						
27	33640154-2, UNDERFRAME NPP SIDE HIGH CAPACITY IVC COUPLER 500A	RDS0/PE/SPEC/AC/0177-2013, Rev-1 WITH RCF ANNEX.A.		MAA LAXMI INDUSTRIES	NIL	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

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FOR ELECTRICAL ITEMS						QEF 0650
ROLLING STOCK CERTIFICATE OF						VER 1.0
LHB AC 2 TIER COACH AIR SPRING IN SECONDARY						
TYPE OF COACH RAILWAY		LACCWX ECOR	Shell No COUPLING TYPE	2243 CBC	COACH_NO DATE OF FITMENT	22776 21-JAN-23
S. No.	PL No & Item Description	Drawing No			Make	Item Sr.No. (if any)
Group Name UNDER FRAME NPP SIDE						
28	33640580-2, FEEDR JUNCTION BOX	EDTS328.Rev-C, AM-7, TYPE-2.			RSI SWITCHGEAR PVT.LTD	NIL
SSE/EL/QC			AME/WM QC/DY CQM I			