



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9102	BOGIE NO	206449 / 206450	DISPATCH DATE	19-MAR-20	
2.	RAILWAY	NR	TYPE OF COACH	LACCNX	COACH NO	202310	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1103	1105		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm <sup>2</sup>		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm <sup>2</sup> /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm <sup>2</sup> /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	87 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	POLYMER				
	4	BODY SIDE DOOR	JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	COMPOSITE MODULAR TOILET	CMT, HIND, HIND, CMT				
	7	LAVATORY DOORS	CMT, HIND, HIND, CMT				
	8	WATER TANKS	AMIT, AMIT, MANOJ				
	9	SEAT & BEARTH	ADVANCE SILICON				
	10	BIO-TOILET	MK, MRC, MK, MRC				
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	MK, MRC, MK, MRC				
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.					
	10.2	Deviations (If any): NIL					



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**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9102	NR	LACCNX	202310	19-MAR-20

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	206449				206450			
ii.	Frame No.	KE-74				KE-55			
iii.	Bolster No.	AMIT-111				AMIT-110			
iv.	Axle No.	RWF - T8437		RWF - T7175		RWF - T7569		RWF - V4148	
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.	917.30	917.30	917.10	917.10	916.20	916.20	917.10	917.10
vii.	Wheel Disc No.	35263-9OH9-TZ	81042-9WE5-TZ	37836-9OK8-TZ	34307-9OI4-TZ	37496-9OJ7-TZ	37498-9OJ7-TZ	32780-9OF6-TZ	32779-9OF6-TZ
viii.	RB Nos.	39470	36473	39832	36431	38472	39401	39692	39633
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

  

<b>11.2 Secondary suspension load deflection Values:</b>				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	AVADH-19-12-3661	AVADH-19-12-3617	AVADH-19-12-3613	AVADH-19-12-3656

  

<b>Items traceability:</b>				
<b>11.3</b>	<b>Sno.</b>	<b>Item</b>	<b>Make</b>	
	i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12
	ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08
	iii.	Primary Damper	269910, 270905, 270320, 270759	269885, 270506, 271069, 270950
	iv.	Secondary Damper	1982, 2055	1465, 1407
	v.	Lateral Damper	296917	297056
	vi.	Brake cylinder & Caliper	B20182-600,B20275-600, B20183-600,B20065-600	B20140-600,B20277-600, B20136-600,B20082-600
	vii.	Brake Disc		FTI
	viii.	Contral arm top		HAPL
	ix.	Control arm bottom		HAPL
	x.	Top rubber Pad		GMT
	xi.	Vertical Bump Stop		AVADH
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		EMSON
	xv.	Traction lever make		TAJ
	xvi.	Ball joint traction lever		AVADH
	xvii.	Traction center elastic		AVADH
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		RNG

  

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

**LACCNX - 9102**



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**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB AC 3 TIER AIR SPRING COACH**

**TYPE OF COACH : LACCNX**      **Shell No : 9102**      **COACH\_NO : 202310**

**RAILWAY : NR**      **COUPLING TYPE : CBC**      **DATE OF FITMENT: 18-MAR-20**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name PP-SIDE**

0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11195-02-2020
1	33635080-1, PUMP	EDTS186	KALSI METAL WORK PVT LTD.	302790/ 302791
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORK PVT LTD.	CPA-8072/04-2019
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENG.	4785-B-20
1	33640932-1, GPS BASED P I SYSTEM PP SIDE	EDTS270 TYPE-II	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	4592239
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	HHPE-20012598

**Group Name NON-PP SIDE**

1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENG.	4783-B-20
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENG.	AE-2001332
1	33635330-1, HOT CASE	EDTS139	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	NOT PROVIDED	NIL
2	33640932-2, GPS BASED P I SYSTEM NPP SIDE	EDTS270 TYPE-II	NOT PROVIDED	NIL

**Group Name UNDER FRAME**

0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD.	1909-82-..
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	BHASIN PACKARD ELECTRONICS (PVT) LTD.	11193976



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S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name UNDER FRAME</b>				
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD.	2019-06-087
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY.PVT .LTD	2019-08-762
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	HBL	05/2019
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TABLE-1	NEC SWITCHGEAR S & CONTROLS	2019-05-8075
<b>Group Name COMPARTMENT</b>				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-964
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L & T
<b>Group Name UNDER FRAME PP SIDE</b>				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	206450
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	NEC SWITCHGEAR AND CONTROL	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRICAL	NIL
<b>Group Name UNDER FRAME NPP SIDE</b>				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	206449
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	S INTERNATIONAL	NIL
<b>SSE/EL/QC</b>			<b>AME/WM QC/DY CQM I</b>	