



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9005	BOGIE NO	197309 / 197310	DISPATCH DATE	31-OCT-19	
2.	RAILWAY	NR	TYPE OF COACH	LFCWACX	COACH NO	196425	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	42.5 T					
5.	Carrying Capacity	Seating	38	Sleeping	NIL	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)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1105	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 ²	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm ²			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply			
8.	Painting Details:	Type of Paint	Make	Average Gloss Value			
	8.1	Paint	PU PAINT	GS	88 / 88		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	TWPL				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	CEMCON				
	4	BODY SIDE DOOR	SVARN INFRATEL, JVR				
	5	VESTIBULE SLIDING DOOR	HANSPAL				
	6	WATER TANKS	SHIVALIK, AMIT, RELIABLE THERMOCRAFT				
	7	COMPOSITE MODULAR TOILET	CMT, HINDUSTAN				
	8	LAVATORY DOORS	CMT, HIND				
	9	SEAT & BEARTH	AAR KAY FOAM, AMIR CHAND				
	10	BIO-TOILET	CEMCON, JSL				
	11	EP BRAK / BRAKE EQUIPMENT	KBI				
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

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		9005	NR	LFCWACX	196425	31-OCT-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	197309				197310			
ii.	Frame No.	ECBT-789				SIMPLEX-38			
iii.	Bolster No.	NE-61				SECPL-112			
iv.	Axle No.	RWF - M9687		RWF - R1327		RWF - N4292		RWF - R1823	
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.	917.41	917.41	917.20	917.20	917.30	917.30	917.17	917.17
vii.	Wheel Disc No.	35225-8QM4-TZ	41359-8RM5-TZ	35183-8QL9-TZ	41365-8RM9-TZ	39623-8RQ6-TZ	44449-8RP8-TZ	34332-8PQ5-TZ	34304-8QP5-TZ
viii.	RB Nos.	03816	06025	08781	03598	05314	05801	05353	05946
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

11.2 Secondary suspension load deflection Values:				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	TAYAL-19-7-2270	TAYAL-19-8-2814	TAYAL-19-7-2264	TAYAL-19-7-2283

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	STLI-19-01	STLI-19-01
	ii.	Primary inner Spring	STLI-19-08	STLI-19-03
	iii.	Primary Damper	1220, 1397, 1419, 1142	1468, 1325, 1294, 1061
	iv.	Secondary Damper	1299, 904	895, 1184
	v.	Lateral Damper	1891	1780
	vi.	Break cylinder & Caliper	B8604-691,B7724-691, B8622-691,B7721-691	B7606-691,B6574-691, B7583-691,B6564-691
	vii.	Break Disc		FTI
	viii.	Contral arm top		HAPL
	ix.	Control arm bottom		HAPL
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		AVADH
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		AVADH
	xvii.	Traction center elastic		GMT
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		SARITA

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

LFCWACX - 9005



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC (1+2) COACH WITH AIR SPRING IN SECONDARY

TYPE OF COACH : LFCWACX Shell No : 9005 COACH_NO : 196425

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 29-OCT-19

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name PP-SIDE				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0119091270
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORKPVT LTD.	CPA-7899/01/2019
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-F-1258
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19072533
1	33640300-1, PA SYSTEM	EDTS173,TYPE-V	AHUJA BY PUNJAB RADIOS	3317075
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	19082112
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	HIREL
1	33641663-1, ANNUNCIATOR UNIT	EDTS 117	M/S V.S INSTRUMENTS	NIL
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-581
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L&T
Group Name NON-PP SIDE				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-F-1259
Group Name PANTRY				
1	33635330-1, HOT CASE	EDTS139	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	NOT PROVIDED	NIL
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197309
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197310



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S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
1	33635080-1, PUMP	EDTS186	KALSI METAL WORK PVT LTD.	300201/ 300202-01/2019
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD.	1906-82-82
0	33635328-0, 3 KVA DELTA/STAR 415/190 V TRANSFORMER	EL/EOG/4-74 WITH RCF NOTE-1	ELECTRO WAVES ELECTRONICS PVT. LTD.	WLDTSB-19504
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-03-072
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATION ALS SWITCHGEAR PVT LTD	2019-03-072
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	04/2019
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'.	MEENAKSHI ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-04-7241
Group Name COMPARTMENT				
2	33640300-2, SPEAKERS	EDTS173, TYPE-V	AHUJA BY PUNJAB RADIOS	NIL
2	33641663-2, INDICATOR UNITS	EDTS 117	M/S V.S INSTRUMENTS	NIL
Group Name UNDER FRAME PP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATION ALS SWITCHGEAR PVT.LTD	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME NPP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATION ALS SWITCHGEAR PVT LTD	NIL



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S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL
SSE/EL/QC		AME/WM QC/DY CQM I	