



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8011	BOGIE NO	187456	/ 187457	DISPATCH DATE	22-MAR-19
2.	RAILWAY	CR	TYPE OF COACH	LWFAC	COACH NO		191114
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	43.65 T					
5.	Carrying Capacity	Seating	24	Sleeping	24	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		1102	1104	
	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		VIBGYOR	86 / 89	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
	2	BIO-TOILET		AMIT, JSL			
	3	FLOOR BOARD		TWPL			
	4	PVC		RESPONSIVE			
	5	UIC VESTIBULES		KRP			
	6	LAVATORY DOORS		HINDUSTAN			
	7	WATER TANKS		AMIT, RAIL TECH			
	8	BODY SIDE DOOR		JBM			
	9	VESTIBULE SLIDING DOOR		HANSPAL			
	10	SEAT & BEARTH		AAR KAY FOAM			
10.	10.1	Modification/ Trial (If any): NIL					
	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
		8011	CR	LWFAC	191114	22-MAR-19

11.1 Wheel & Axle Details:									
i.	Bogie No.	187456				187457			
ii.	Frame No.	ECBT-116				ECBT-115			
iii.	Bolster No.	PD-CA-1137				PD-CA-1139			
iv.	Axle No.	H- 3366		H- 8754		G- 8967		G- 8913	
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	916.00	916.00	916.00	916.00	916.00	916.00
vii.	Wheel Disc No.	34967-8RH2-TZ	29875-8QM1-TZ	31967-7TG1-TZ	19444-8MT5-TZ	33288-7SH9-TZ	31630-7SG6-TZ	05903-7OH4-TZ	19445-8MT5-TZ
viii.	RB Nos.	25350	24395	24188	26608	25543	29964	24187	36371
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.	TAYAL-18-4-113	TAYAL-18-4-157	TAYAL-18-4-071	TAYAL-18-4-059

Items traceability:					
11.3	Sno.	Item	Make		
	i.	Primary Outer Spring	GBD-17-12	GBD-17-12	GBD
	ii.	Primary inner Spring	GBD-17-12	GBD-17-12	GBD
	iii.	Primary Damper	00295, 00298, 00364, 00363	00351, 00303, 00300, 00301	GBEL
	iv.	Secondary Damper	216443, 216380	219298, 216342	IAI
	v.	Lateral Damper	209564	209596	IAI
	vi.	Break cylinder & Caliper	M18327-600,M18259-600, M18340-600,K18559-600	K18171-600,M18222-600, M18349-600,K18561-600	FTI
	vii.	Break Disc			FTI
	viii.	Contral arm top			RV
	ix.	Control arm bottom			RV
	x.	Top rubber Pad			GMT
	xi.	Vertical Bump Stop			GMT
	xii.	Ball Joint Control arm			GMT
	xiii.	Lateral Bump stop			GMT
	xiv.	Traction center make			RNG
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			GMT
	xvii.	Traction center elastic			GMT
	xviii.	Secondary rubber pad			NIL
	xix.	Rubber spring			NIL
	xx.	Anti roll bar make			SARITA
	xxi.	Ball joint roll link			SARITA
	xxii.	Fork make			EMSON

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

LWFAC - 8011



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB 1ST AC END ON GENERATION AIR BRAKE

TYPE OF COACH : LWFAC **Shell No : 8011** **COACH_NO : 191114**

RAILWAY : CR **COUPLING TYPE : CBC** **DATE OF FITMENT: 20-MAR-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	SA B WABCO	47/18/1915
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND)	18090095
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2079-I-17
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2084-I-17
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	BHASIN PACKARD ELECTRONICS PVT. LTD.	02197238
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	BHASIN PACKARD ELECTRONICS PVT. LTD.	02197240
1	33641535-1, PA SYSTEM	EDTS-173,TYPE-IV	AHUJA BY PUNJAB RADIOS	4548813
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-509
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L&T
Group Name NON-PP SIDE				
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE 18013731
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	187456
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	187457
Group Name UNDER FRAME				
1	33635080-1, PUMP	EDTS186	KALSI METAL WORK PVT.LTD	293176/293177
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	M/S VIMAL TRANSFORMER	VTC-3089-LHB-6965
1	33635330-1, HOT CASE	EDTS139	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	NOT PROVIDED	NIL



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S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
0	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366, Ren-Nil	VIMAL TRANSFORMER (5KVA)	VTC-3089-LHB-675
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG	2017-11-061
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2017-07-317
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	08/2018
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
Group Name COMPARTMENT				
2	33641535-2, SPEAKERS	EDTS-173, TYPE-IV	AHUJA BY PUNJAB RADIOS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TABLE-1	INTERNATIONAL SWITCHGEAR S PVT. LTD.	CB-RCF-18060185
Group Name UNDER FRAME PP SIDE				
0	33640154-0, HIGH CAPACITY INTERVEHICAL COUPLER (Z S COUPLING) 500A, 750V FOR LHB EOG AC COACHES WITHOUT POLYAMID	EDTS105, REV-E, AMDT-1	MAA LAXMI INDUSTRIES	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	NEC SWITCHGEAR & CONTROL	NIL
2	33641663-2, INDICATOR UNITS	EDTS 117	M/S V.S INSTRUMENTS	NIL
1	N3052489-1, GEYSER 35 LTRS (HAVELLS OR EQUIVALENT MAKE)	MONZA EC-H 35 LTR	VANYA INDUSTRIAL EQUIPMENTS	NIL
Group Name UNDER FRAME NPP SIDE				
0	33640154-0, HIGH CAPACITY INTERVEHICAL COUPLER (Z S COUPLING) 500A, 750V FOR LHB EOG AC COACHES WITHOUT POLYAMID	EDTS105, REV-E, AMDT-1	MAA LAXMI INDUSTRIES	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	NEC SWITCHGEAR & CONTROL	NIL



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S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME NPP SIDE			
1	N3052488-1, WATER GEYSER ASSEMBLY (U/S 50LTRS WITH SS HOUSING)	LA72208	VANYA INDUSTRIAL EQUIPMENTS
SSE/EL/QC		AME/WM QC/DY CQM I	