



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9032	BOGIE NO	197061 / 197062	DISPATCH DATE	18-SEP-19	
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO	194125	
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, 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 <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	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	2	SEAT & BEARTH	OVPL				
	3	PVC	PREMIER POLYFILM				
	4	FLOOR BOARD	TWPL				
	5	UIC VESTIBULES	KRP				
	6	BODY SIDE DOOR	JVR, SVARN INFRATEL, JBM				
	7	VESTIBULE SLIDING DOOR	JBM				
	8	BIO-TOILET	PD STEEL				
	9	WATER TANKS	AMIT, SHIVALIK, MANOJ				
	10	LAVATORY DOORS	CMT, HIND				
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					



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

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9032	NR	LWACCN	194125	18-SEP-19

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	197061				197062			
ii.	Frame No.	CA-983				CA-1066			
iii.	Bolster No.	PD-CA-1782				PD-CA-1608			
iv.	Axle No.	RWF - P2246		RWF - M2318		RWF - P1764		RWF - P2173	
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.	917.20	917.20	917.20	917.20	917.30	917.30	917.30	917.30
vii.	Wheel Disc No.	36306-8RP6-TZ	44684-8RP8-TZ	35136-8QN4-TZ	04582-8ML9-TZ	45911-8SI3-TZ	45914-8SI3-TZ	42278-8RP7-TZ	01587-8MK3-TZ
viii.	RB Nos.	21415	20089	19752	24442	20169	22093	20168	20135
ix.	RB Make	SKF		SKF		SKF		SKF	
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-19-05-1852	AVADH-19-05-1844	AVADH-19-05-1817	AVADH-19-05-1831

  

<b>Items traceability:</b>				
Sno.	Item	Make		
i.	Primary Outer Spring	GBD-18-12	GBD-18-12	GBD
ii.	Primary inner Spring	RSK-18-11	RSK-18-11	RSK
iii.	Primary Damper	31265, 31261, 31266, 31258	31263, 31214, 31259, 31262	KBI
iv.	Secondary Damper	1154, 1157	1047, 1050	GABRIEL
v.	Lateral Damper	1904	1903	GABRIEL
vi.	Break cylinder & Caliper	E19631-600,F19731-600, E19258-600,F19088-600	E19394-600,F19049-600, E19390-600,F19047-600	FTI
vii.	Break Disc			KBI
viii.	Contral arm top			KUMAR
ix.	Control arm bottom			KUMAR
x.	Top rubber Pad			AVADH
xi.	Vertical Bump Stop			GMT
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			GMT
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			SARITA
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			SARITA

  

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

**LWACCN - 9032**



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH : LWACCN**      **Shell No : 9032**      **COACH\_NO : 194125**

**RAILWAY : NR**      **COUPLING TYPE : CBC**      **DATE OF FITMENT: 14-SEP-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB WABCO INDIA LTD.	19/19/706
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030233/ 19030234
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19050032
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-F-1260
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.	07195908/ 07195885
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	4181940
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
<b>Group Name NON-PP SIDE</b>				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-F-1257
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19062458
1	33635330-1, HOT CASE	EDTS139	S.D.ENGINEERS	SDFS-3T-008
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	S.D.ENGINEERS	SDFS-3T-008
2	33640932-2, GPS BASED P I SYSTEM NPP SIDE	EDTS270 TYPE-II	NOT PROVIDED	NIL
<b>Group Name UNDER FRAME</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMERS	VTC-3089-LHB-946
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMERS	VTC-3089-LHB-659



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

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"	RSI SWITCHGEAR PVT.LTD	19021757
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-08-2001
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5285
<b>Group Name COMPARTMENT</b>				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO. PVT. LTD.	2018-07-033
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO. PVT. LTD.	L & T
<b>Group Name UNDER FRAME PP SIDE</b>				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197062
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT.LTD	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	MAA LAXMI INDUSTRY	NIL
<b>Group Name UNDER FRAME NPP SIDE</b>				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197061
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT. LTD.	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	MAA LAXMI INDUSTRY	NIL
<b>SSE/EL/QC</b>			<b>AME/WM QC/DY CQM I</b>	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9033	BOGIE NO	197063	/ 197064	DISPATCH DATE	21-SEP-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	194126
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, LWCBAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1100	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 <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	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
	2	SEAT & BEARTH		OVPL			
	3	PVC		PREMIER POLYFILM			
	4	FLOOR BOARD		SRI RAM			
	5	UIC VESTIBULES		KRP			
	6	BODY SIDE DOOR		JVR, JBM			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		PD STEEL			
	9	WATER TANKS		AMIT, RAIL FAB, MANOJ			
	10	LAVATORY DOORS		CMT, HINDUSTAN			
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					



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

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		9033	NR	LWACCN	194126	21-SEP-19			

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	197063				197064			
ii.	Frame No.	CA-990				CA-992			
iii.	Bolster No.	PD-CA-1697				PD-CA-1702			
iv.	Axle No.	RWF - P2799		RWF - P2145		RWF - P2240		RWF - P2249	
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	917.20	917.20	917.20	917.20	917.10	917.10
vii.	Wheel Disc No.	37268-90J4-TZ	41299-8RM6-TZ	45913-8SI3-TZ	37210-9OE5-TZ	32274-90J4-TZ	41298-8RM6-TZ	31958-8RG7-TZ	31959-8RG7-TZ
viii.	RB Nos.	21852	19958	22119	20142	08700	08445	08432	07604
ix.	RB Make	SKF		SKF		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-19-05-1813	AVADH-19-05-1891	AVADH-19-05-1849	AVADH-19-05-1824

  

<b>Items traceability:</b>				
Sno.	Item	Make		
i.	Primary Outer Spring	GBD-18-12	GBD-18-12	GBD
ii.	Primary inner Spring	RSK-18-11	RSK-18-11	RSK
iii.	Primary Damper	31268, 31267, 31257, 31260	31274, 31273, 31282, 31272	KBI
iv.	Secondary Damper	1556, 1159	1158, 1049	GABRIEL
v.	Lateral Damper	1990	1959	GABRIEL
vi.	Break cylinder & Caliper	E19219-600,E19722-600, E19234-600,E19740-600	E19652-600,E19092-600, E19235-600,E19766-600	FTI
vii.	Break Disc			KBI
viii.	Contral arm top			KUMAR
ix.	Control arm bottom			KUMAR
x.	Top rubber Pad			GMT
xi.	Vertical Bump Stop			GMT
xii.	Ball Joint Control arm			AVADH
xiii.	Lateral Bump stop			AVADH
xiv.	Traction center make			SARITA
xv.	Traction lever make			SARITA
xvi.	Ball joint traction lever			GMT
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			SARITA
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			SARITA

  

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

**LWACCN - 9033**



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH : LWACCN**      **Shell No : 9033**      **COACH\_NO : 194126**

**RAILWAY : NR**      **COUPLING TYPE : CBC**      **DATE OF FITMENT: 21-SEP-19**

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	SAB WABCO INDIA LTD.	20/19/726
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030197/ 19030198
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19050110
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	3676-F-19
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	I.C ELECTRICAL COMPANY PVT. LTD.	08/19/0050
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	4820202
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL

**Group Name NON-PP SIDE**

1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	3675-F-19
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1908669
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	VIMAL TRANSFORMERS	VTC-3089-LHB-955
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	BHASIN PACKARD ELECTRONICS (PVT) LTD.	031999734
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	A.K.ENTERPRISE	2018-07-11
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	A.K. ENTERPRISE	2018-07-10





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**LHB 3 AC END ON GENERATION AIR BRAK**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name UNDER FRAME**

0 33641729-0, 70AH, 110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5314

**Group Name COMPARTMENT**

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-428
2 33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L & T

**Group Name UNDER FRAME PP SIDE**

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197064
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT.LTD	NIL
0 33641110-0, ZS COUPLING 500A, 750V, 3-PHASE 50HZ	EDTS105,,REV-E, AM1&2 WITH ANNEX. A	S INTERNATIONAL	NIL

**Group Name UNDER FRAME NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197063
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT. LTD.	NIL
0 33641110-0, ZS COUPLING 500A, 750V, 3-PHASE 50HZ	EDTS105,,REV-E, AM1&2 WITH ANNEX. A	S INTERNATIONAL	NIL

**SSE/EL/QC**

**AME/WM QC/DY CQM I**





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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9031	BOGIE NO	197089	/ 197090	DISPATCH DATE	24-SEP-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	194127
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, 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 <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	EP BRAK / BRAKE EQUIPMENT			KBI		
	2	SEAT & BEARTH			OVPL		
	3	PVC			PREMIER POLYFILM		
	4	FLOOR BOARD			TWPL		
	5	UIC VESTIBULES			KRP		
	6	BODY SIDE DOOR			JVR, JBM		
	7	VESTIBULE SLIDING DOOR			JBM		
	8	BIO-TOILET			RAIL FAB, OMAX		
	9	WATER TANKS			SHIVALIK, RAIL FAB, MANOJ		
	10	LAVATORY DOORS			HIND		
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					



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

**QMF 9829, VER:1.00**

11.	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9031	NR	LWACCN	194127	24-SEP-19

**11.1 Wheel & Axle Details:**

i.	Bogie No.	197089				197090			
ii.	Frame No.	CA-989				CA-976			
iii.	Bolster No.	PD-CA-1683				PD-CA-1691			
iv.	Axle No.	RWF - L2640		RWF - P2212		RWF - N9329		RWF - N9381	
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.	917.10	917.10	917.10	917.10	917.10	917.10	917.10	917.10
vii.	Wheel Disc No.	32403-8QN8-TZ	35018-8QN8-TZ	32172-8QP0-TZ	32173-8QP0-TZ	33231-8RG9-TZ	30518-8RG0-TZ	30517-8RG0-TZ	33229-8RG9-TZ
viii.	RB Nos.	09229	05844	05337	07517	09347	05951	08772	09016
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

**11.2 Secondary suspension load deflection Values:**

Description		Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i.	Make & Nos.	AVADH-19-05-1915	AVADH-19-05-1850	AVADH-19-05-1922	AVADH-19-07-1990

**Items traceability:**

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	GBD-18-12	GBD
	ii.	Primary inner Spring	RSK-18-10	RSK
	iii.	Primary Damper	41312, 40959, 41179, 41165	KBI
	iv.	Secondary Damper	942, 1058	GABRIEL
	v.	Lateral Damper	1771	GABRIEL
	vi.	Break cylinder & Caliper	B4570-691,B3916-691, B4730-691,B3911-691	KBI
	vii.	Break Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		GMT
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		SARITA
	xvi.	Ball joint traction lever		MGN
	xvii.	Traction center elastic		PRAG
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		SARITA
	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

**LWACCN - 9031**



RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (LHB)

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH :** LWACCN      **Shell No :** 9031      **COACH\_NO :** 194127

**RAILWAY :** NR      **COUPLING TYPE :** CBC      **DATE OF FITMENT:** 24-SEP-19

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0119201978
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030221/ 19030222
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19050077
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2837-G-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	I.C ELECTRICAL COMPANY PVT. LTD.	08/19/0033
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	4486265
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
<b>Group Name NON-PP SIDE</b>				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2839-G-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1904393
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
<b>Group Name UNDER FRAME</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMERS	VTC-3089-LHB-995
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDTSB-19518
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-1991



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name UNDER FRAME**

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RSI SWITCHGEAR PVT. LTD.	19021823
0 33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5326

**Group Name COMPARTMENT**

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-365
2 33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L & T

**Group Name UNDER FRAME PP SIDE**

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197089
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT.LTD	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	S INTERNATIONAL	NIL

**Group Name UNDER FRAME NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197090
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT. LTD.	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	S INTERNATIONAL	NIL

**SSE/EL/QC**

**AME/WM QC/DY CQM I**



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9014	BOGIE NO	197077	/ 197078	DISPATCH DATE	26-SEP-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	194128
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, 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 <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	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	2	SEAT & BEARTH	OVPL				
	3	PVC	PREMIER POLYFILM				
	4	FLOOR BOARD	TWPL				
	5	UIC VESTIBULES	KRP				
	6	BODY SIDE DOOR	JVR, JBM				
	7	VESTIBULE SLIDING DOOR	JBM				
	8	BIO-TOILET	PD STEEL, MK				
	9	WATER TANKS	AMIT, RAIL FAB, MANOJ				
	10	LAVATORY DOORS	HINDUSTAN				
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					



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

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway		Type	Coach No.	Dispatch Date		
		9014	NR		LWACCN	194128	26-SEP-19		

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	197077				197078			
ii.	Frame No.	ECBT-676				ECBT-675			
iii.	Bolster No.	PD-CA-1743				PD-CA-1670			
iv.	Axle No.	RWF - L2055		RWF - N5026		RWF - P2583		RWF - N8886	
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.	917.20	917.20	917.20	917.20	917.10	917.10	917.10	917.10
vii.	Wheel Disc No.	42936-8RR4-TZ	42532-8RL5-TZ	44205-8RM2-TZ	37732-8RR1-TZ	41090-8RM4-TZ	20379-8PQ1-TZ	37734-8RR1-TZ	37731-8RR1-TZ
viii.	RB Nos.	08565	05369	03771	08746	04646	02971	09050	09318
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-19-05-1895	AVADH-19-05-1888	AVADH-19-05-1886	AVADH-19-05-1889

  

<b>Items traceability:</b>				
<b>11.3</b>	<b>Sno.</b>	<b>Item</b>	<b>Make</b>	
	i.	Primary Outer Spring	GBD-18-12	GBD-18-12
	ii.	Primary inner Spring	RSK-18-11	RSK-18-11
	iii.	Primary Damper	31956, 31137, 31958, 31132	31955, 31957, 31953, 31959
	iv.	Secondary Damper	1048, 1051	755, 754
	v.	Lateral Damper	1842	1936
	vi.	Break cylinder & Caliper	E19815-600,E19720-600, E19401-600,E19706-600	E19809-600,E19744-600, E19829-600,E19741-600
	vii.	Break Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		GMT
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		JI SARITA
	xvi.	Ball joint traction lever		GMT SGA
	xvii.	Traction center elastic		AVADH
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		SARITA
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		SARITA

  

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

**LWACCN - 9014**



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH : LWACCN      Shell No : 9014      COACH\_NO : 194128**

**RAILWAY : NR      COUPLING TYPE : CBC      DATE OF FITMENT: 24-SEP-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB WABCO INDIA LTD.	09/19/3111
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030175/ 19030176
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19080023
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	3356-B-19
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	I.C ELECTRICAL COMPANY PVT. LTD.	08/19/3111
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	4108257
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
<b>Group Name NON-PP SIDE</b>				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	3363-B-19
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1904396
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
<b>Group Name UNDER FRAME</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMERS	VTC-3089-LHB-954
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDTSB-19509
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2043





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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF  
LHB 3 AC END ON GENERATION AIR BRAK**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name UNDER FRAME**

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-07-707
0 33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5333

**Group Name COMPARTMENT**

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-458
2 33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L & T

**Group Name UNDER FRAME PP SIDE**

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197076
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT.LTD	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	MAA LAXMI INDUSTRY	NIL

**Group Name UNDER FRAME NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197077
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT. LTD.	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	MAA LAXMI INDUSTRY	NIL

**SSE/EL/QC**

**AME/WM QC/DY CQM I**



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9034	BOGIE NO	197081	/ 197082	DISPATCH DATE	28-SEP-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	194129
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, LWCBAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1103	
	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	85 / 85	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		KBI			
	2	SEAT & BEARTH		OVPL			
	3	PVC		RESPONSIVE			
	4	FLOOR BOARD		TWPL			
	5	UIC VESTIBULES		KRP			
	6	BODY SIDE DOOR		JVR, JBM			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RASANDIK			
	9	WATER TANKS		SHIVALIK, AMIT, SHIVALIK			
	10	LAVATORY DOORS		CMT, HIND			
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					



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

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9034	NR	LWACCN	194129	28-SEP-19

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	197081				197082			
ii.	Frame No.	CA-1111				CA-1110			
iii.	Bolster No.	PD-CA-1677				PD-CA-1703			
iv.	Axle No.	RWF - N9196		RWF - N9109		RWF - P2503		RWF - P2420	
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.	917.10	917.10	917.10	917.10	916.95	916.95	917.10	917.10
vii.	Wheel Disc No.	35011-8QN8-TZ	32174-8QP2-TZ	29099-8RG4-TZ	29098-8RG4-TZ	36353-8RR3-TZ	31548-8QN2-TZ	36061-8RP3-TZ	12181-8MQ4-TZ
viii.	RB Nos.	08623	08819	08960	07515	05436	0997	03855	07655
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-19-05-1893	AVADH-19-07-1989	AVADH-19-05-1839	AVADH-19-05-1963

  

<b>Items traceability:</b>					
<b>11.3</b>	<b>Sno. Item</b>				<b>Make</b>
	i. Primary Outer Spring	GBD-18-12			GBD
	ii. Primary inner Spring	RSK-18-10			RSK
	iii. Primary Damper	41180, 41135, 41393, 41348			KBI
	iv. Secondary Damper	756, 1038			GABRIEL
	v. Lateral Damper	1832			GABRIEL
	vi. Break cylinder & Caliper	B4757-691,B3867-691, B4745-691,B3865-691			KBI
	vii. Break Disc				KBI
	viii. Contral arm top				KUMAR
	ix. Control arm bottom				KUMAR
	x. Top rubber Pad				AVADH
	xi. Vertical Bump Stop				GMT
	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				MGN
	xvii. Traction center elastic				PRAG
	xviii. Secondary rubber pad				NA
	xix. Rubber spring				NA
	xx. Anti roll bar make				SARITA
	xxi. Ball joint roll link				SARITA
	xxii. Fork make				SARITA

  

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

**LWACCN - 9034**



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH : LWACCN      Shell No : 9034      COACH\_NO : 194129**

**RAILWAY : NR      COUPLING TYPE : CBC      DATE OF FITMENT: 26-SEP-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name      PP-SIDE</b>				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0118265868
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030165/ 19030166
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19080025
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2977-J-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	I.C ELECTRICAL COMPANY PVT. LTD.	06/19/0012
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	4820166
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
<b>Group Name      NON-PP SIDE</b>				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2978-J-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	1908676
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
<b>Group Name      UNDER FRAME</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD.	1906-8287
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDTSB-19501
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2004



RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (LHB)

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name UNDER FRAME**

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY PVT.LTD	2019-07-135
0 33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5293

**Group Name COMPARTMENT**

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	MODERN RAIL EQUIPMENT MANUFACTUR ES PVT. LTD,	MREM-184002
2 33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	MODERN RAIL EQUIPMENT MANUFACTUR ES PVT. LTD,	L & T

**Group Name UNDER FRAME PP SIDE**

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197081
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	MAA LAXMI INDUSTRY	NIL

**Group Name UNDER FRAME NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197082
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATION AL 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



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS		
ROLLING STOCK CERTIFICATE OF		
LHB 3 AC END ON GENERATION AIR BRAK		
SSE/EL/QC	AME/WM QC/DY CQM I	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9035	BOGIE NO	197097	/ 197098	DISPATCH DATE	30-SEP-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	194130
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, LWCBAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1104	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	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		KBI			
	2	SEAT & BEARTH		OVPL			
	3	PVC		RESPONSIVE			
	4	FLOOR BOARD		TWPL			
	5	UIC VESTIBULES		KRP			
	6	BODY SIDE DOOR		JVR, JBM			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RAIL FAB, OMAX			
	9	WATER TANKS		SHIVALIK, AMIT, SHIVALIK			
	10	LAVATORY DOORS		HIND			
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					





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

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9035	NR	LWACCN	194130	30-SEP-19

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	197097				197098			
ii.	Frame No.	CA-982				CA-980			
iii.	Bolster No.	PD-CA-1752				PD-CA-1828			
iv.	Axle No.	RWF - P2146		RWF - L1789		RWF - K6092		RWF - L2259	
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.	917.10	917.10	917.10	917.10	917.10	917.10	917.10	917.10
vii.	Wheel Disc No.	29125-8QN5-TZ	30335-8QP4-TZ	30334-8QM5-TZ	28282-8QN9-TZ	45682-8RS1-TZ	41089-8RM4-TZ	28281-8QN9-TZ	30336-8QL7-TZ
viii.	RB Nos.	08479	06085	08999	08957	09279	05511	05451	36352
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-19-07-1969	AVADH-19-05-1976	AVADH-19-05-1926	AVADH-19-05-1966

  

<b>Items traceability:</b>					
<b>11.3</b>	<b>Sno. Item</b>				<b>Make</b>
	i. Primary Outer Spring	GBD-18-12			GBD
	ii. Primary inner Spring	RSK-18-10			RSK
	iii. Primary Damper	41043, 41035, 41130, 41123			KBI
	iv. Secondary Damper	998, 960			GABRIEL
	v. Lateral Damper	1899			GABRIEL
	vi. Break cylinder & Caliper	B4632-691,B3945-691, B4721-691,B3948-691			KBI
	vii. Break Disc				KBI
	viii. Contral arm top				HAPL
	ix. Control arm bottom				HAPL
	x. Top rubber Pad				AVADH
	xi. Vertical Bump Stop				GMT
	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				SGA
	xvii. Traction center elastic				PRAG
	xviii. Secondary rubber pad				NA
	xix. Rubber spring				NA
	xx. Anti roll bar make				SARITA
	xxi. Ball joint roll link				SARITA
	xxii. Fork make				SARITA

  

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

**LWACCN - 9035**



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH : LWACCN      Shell No : 9035      COACH\_NO : 194130**

**RAILWAY : NR      COUPLING TYPE : CBC      DATE OF FITMENT: 28-SEP-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name      PP-SIDE</b>				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0118326087
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030167/ 19030168
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19030021
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2975-J-18
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	4486307
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	HHPL-19082071
<b>Group Name      NON-PP SIDE</b>				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2975-J-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1904372
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
<b>Group Name      UNDER FRAME</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMERS	VTC-3089-LHB-945
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDTSB-19491
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-07-158



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name UNDER FRAME**

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RSI SWITCHGEAR PVT. LTD.	19021819
0 33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5340

**Group Name COMPARTMENT**

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-530
2 33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L & T

**Group Name UNDER FRAME PP SIDE**

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197098
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT.LTD	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	MAA LAXMI INDUSTRY	NIL

**Group Name UNDER FRAME NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197097
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT. LTD.	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	MAA LAXMI INDUSTRY	NIL

**SSE/EL/QC**

**AME/WM QC/DY CQM I**



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9036	BOGIE NO	197093 / 197094	DISPATCH DATE	30-SEP-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO	194131
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, 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 <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	85 / 85
	8.2	Application of PCN-123	SATISFACTORY			
	8.3	Insulation	SATISFACTORY			
9.	Traceability of Furnishing Items:					
	1	EP BRAK / BRAKE EQUIPMENT	KBI			
	2	SEAT & BEARTH	OVPL			
	3	PVC	RESPONSIVE			
	4	FLOOR BOARD	TWPL			
	5	UIC VESTIBULES	KRP			
	6	BODY SIDE DOOR	JVR, JBM			
	7	VESTIBULE SLIDING DOOR	JBM			
	8	BIO-TOILET	PD STEEL, PD STEEL			
	9	WATER TANKS	SHIVALIK, AMIT, SHIVALIK			
	10	LAVATORY DOORS	HINDUSTAN			
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				



भारतीय रेलवे  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9036	NR	LWACCN	194131	30-SEP-19

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	197093				197094			
ii.	Frame No.	CA-1032				ECBT-569			
iii.	Bolster No.	PD-CA-1689				PD-CA-1463			
iv.	Axle No.	RWF - P1752		RWF - L8791		RWF - P7358		RWF - P7435	
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	917.30	917.30	917.30	917.30	917.10	917.10
vii.	Wheel Disc No.	42346-8RP7-TZ	28433-8QN9-TZ	43720-8RN1-TZ	44006-8RP4-TZ	33226-8RG9-TZ	28435-8RG1-TZ	45645-8RR4-TZ	45643-8RR4-TZ
viii.	RB Nos.	07720	07551	08390	05474	04009	08710	04956	08842
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-19-07-1977	AVADH-19-05-1854	AVADH-19-05-1923	AVADH-19-05-1920

  

<b>Items traceability:</b>				
11.3	Sno. Item			Make
	i. Primary Outer Spring	GBD-18-12	GBD-18-12	GBD
	ii. Primary inner Spring	RSK-18-10	RSK-18-10	RSK
	iii. Primary Damper	41341, 41359, 41171, 41235	41002, 41008, 41023, 41351	KBI
	iv. Secondary Damper	0241, 0204	1059, 1061	SABOHEMA GABRIEL
	v. Lateral Damper	1835	1788	GABRIEL
	vi. Break cylinder & Caliper	A4703-691,B3968-691, B4711-691,B3965-691	B4910-691,B4052-691, B4912-691,B4065-691	KBI
	vii. Break Disc			KBI
	viii. Contral arm top			HAPL
	ix. Control arm bottom			HAPL
	x. Top rubber Pad			AVADH
	xi. Vertical Bump Stop			GMT
	xii. Ball Joint Control arm			AVADH
	xiii. Lateral Bump stop			AVADH
	xiv. Traction center make			SARITA
	xv. Traction lever make			SARITA JI
	xvi. Ball joint traction lever			SGA MGN
	xvii. Traction center elastic			PRAG
	xviii. Secondary rubber pad			NA
	xix. Rubber spring			NA
	xx. Anti roll bar make			SARITA
	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

LWACCN - 9036



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

**TYPE OF COACH : LWACCN**      **Shell No : 9036**      **COACH\_NO : 194131**

**RAILWAY : NR**      **COUPLING TYPE : CBC**      **DATE OF FITMENT: 30-SEP-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	011825578
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030281/ 19030282
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	19041287
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2583-D-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	I.C ELECTRICAL COMPANY PVT. LTD.	06/19/0013
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	..
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
<b>Group Name NON-PP SIDE</b>				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2577-D-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	1904406
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
<b>Group Name UNDER FRAME</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RISHAB INDUSTRIES	1903-60-0013
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDTSB-19642
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-07-144



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

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**

**LHB 3 AC END ON GENERATION AIR BRAK**

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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**Group Name UNDER FRAME**

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RSI SWITCHGEAR PVT. LTD.	19021772
0 33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	03/2019
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 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	S INTERNATIONAL	29-02-2017

**Group Name COMPARTMENT**

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO. PVT. LTD.	2018-10-098
2 33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO. PVT. LTD.	L & T

**Group Name UNDER FRAME PP SIDE**

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197093
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT.LTD	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	MAA LAXMI INDUSTRY	NIL

**Group Name UNDER FRAME NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197094
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR PVT. LTD.	NIL
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	MAA LAXMI INDUSTRY	NIL

**SSE/EL/QC**

**AME/WM QC/DY CQM I**