



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9001	BOGIE NO	206199 / 206200	DISPATCH DATE	08-FEB-20	
2.	RAILWAY	NR	TYPE OF COACH	RA	COACH NO	199534	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	0 T					
5.	Carrying Capacity	Seating	NIL	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, LWCBAC, 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	86 / 86		
	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	BODY SIDE WINDOW	AXSYS, BIRKAN				
	4	EMERGENCY WINDOW	BIRKAN				
	5	BODY SIDE DOOR	SVARN INFRATEL, JVR				
	6	WATER TANKS	SHIVALIK, MANOJ				
	7	BIO-TOILET	RAIL FAB, RAIL FAB, RAIL FAB, RAIL FAB				
	8	BIO DIGESTER/VACUUM EVACUATION SYSTEM	RAIL FAB, RAIL FAB, RAIL FAB, RAIL FAB				
	9	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
10.	10.1	Modification/ Trial (If any): 1-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.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9001	NR	RA	199534	08-FEB-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206199				206200			
ii.	Frame No.	CA-1062				BEC-65			
iii.	Bolster No.	NE-35				PD-CA-2388			
iv.	Axle No.	RWF - P7497		RWF - L2399		RWF - S9532		RWF - P7611	
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	917.10	917.10	917.30	917.30	917.20	917.20
vii.	Wheel Disc No.	84292-9VD3-TZ	84289-9VD3-TZ	57185-9QL0-TZ	84290-9VD3-TZ	79427-9WF5-TZ	20829-9PQ9-TZ	79428-9WF5-TZ	20830-9PP9-TZ
viii.	RB Nos.	33633	32200	32157	33609	32336	33447	32471	32175
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-19-12-3514	AVADH-19-12-3509	AVADH-19-11-3187	AVADH-19-11-3151

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-19-11	CMSTL-19-11
	ii.	Primary inner Spring	RSK-16-03	RSK-16-03
	iii.	Primary Damper	247748, 248993, 248933, 248640	247983, 249523, 248384, 248335
	iv.	Secondary Damper	1993, 1994	1996, 1998
	v.	Lateral Damper	271304	271305
	vi.	Brake cylinder & Caliper	A20027-600,L19032-600, N19574-600,L19031-600	L19154-2K,L19040-2K, L19152-2K,L19091-2K
	vii.	Brake Disc		KBI
	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		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		EMSON

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

RA - 9001



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

TYPE OF COACH : RA **Shell No : 9001** **COACH_NO : 199534**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 08-FEB-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	SAB WABCO INDIA LTD.	11246/01-2020
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	NIL
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	ESS ESS KAY ENGG. CO. PVT. LTD.	1376-20
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO.	2019-..
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO.	L & T

Group Name **NON-PP SIDE**

2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	ESS ESS KAY ENGG. CO. PVT. LTD.	NIL
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Group Name **BOGIE PP SIDE**

1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	206200
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Group Name **BOGIE NPP SIDE**

2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	206199
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Group Name **UNDER FRAME**

0	30716068-0, BATTERY BOX FOR 110V DC TL SYSTEM	DRG.No.CC71030 Alt.`b` QUALITY PLAN NO.QEQ 0005 VER.	NEERA ENTREPRISES	NIL
0	30727194-0, INVERTER CHANGEOVER CONTROL BOX	AW72411 ALT"c"	ELETCROWAVES	W25-KJ-191844/ W25-KJ-191843
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19050472/ 19050473
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMERS	VTC-1614
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	BHASIN PACKARD ELECTRONICS (PVT) LTD.	09199612
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2017-03-211
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY.PVT .LTD	2017-03-266



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME			
0	45178215-0, LOW MAINTENANCE , LEAD ACID BATTERY 110V,10X5 CELL UNIT,90AH,5 HRS RATE WITH PPCP CONTAINER ONLY	IS:7660-88.	BHARAT BATTERY
Group Name UNDER FRAME PP SIDE			
0		NEERA ENTERPRISES	NIL
0		MAA LAXMI INDUSTRY	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TABLE-1	NEC SWITCHGEAR S & CONTROLS
Group Name UNDER FRAME NPP SIDE			
0		NEERA ENTERPRISES	NIL
0		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	9002	BOGIE NO	206197 / 206198	DISPATCH DATE	08-FEB-20	
2.	RAILWAY	NR	TYPE OF COACH	RA	COACH NO	199533	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	0 T					
5.	Carrying Capacity	Seating	NIL	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	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	BODY SIDE WINDOW	AXSYS, BIRKAN				
	4	EMERGENCY WINDOW	BIRKAN				
	5	BODY SIDE DOOR	SVARN INFRATEL				
	6	WATER TANKS	RAIL TECH, MANOJ				
	7	BIO-TOILET	RAIL FAB, RAIL FAB, RAIL FAB, RAIL FAB				
	8	BIO DIGESTER/VACUUM EVACUATION SYSTEM	RAIL FAB, RAIL FAB, RAIL FAB, RAIL FAB				
	9	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
10.	10.1	Modification/ Trial (If any): 1-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.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9002	NR	RA	199533	08-FEB-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206197				206198			
ii.	Frame No.	BEC-67				BEC-73			
iii.	Bolster No.	NE-34				PD-CA-2447			
iv.	Axle No.	RWF - S9116		RWF - T4100		RWF - D8067		RWF - S8419	
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	917.01	917.01	917.40	917.40	917.20	917.20
vii.	Wheel Disc No.	55133-9PG8-TZ	55150-9PG8-TZ	34422-9OF1-TZ	34424-9OF1-TZ	55615-9QK1-TZ	57539-9QK6-TZ	77299-9WF2-TZ	79409-9VC3-TZ
viii.	RB Nos.	33046	43023	43818	43080	32300	43722	35058	34355
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-19-12-3573	AVADH-19-12-3513	AVADH-19-11-3118	AVADH-19-11-3166

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-19-11	CMSTL-19-11
	ii.	Primary inner Spring	RSK-16-03	RSK-16-03
	iii.	Primary Damper	247742, 249321, 248666, 249376	249725, 249041, 249732, 249430
	iv.	Secondary Damper	1991, 1995	1992, 1997
	v.	Lateral Damper	271284	271318
	vi.	Brake cylinder & Caliper	H19349-600,L19023-600, H19201-600,L19061-600	L19063-2K,L19066-2K, L19231-2K,L19035-2K
	vii.	Brake Disc		KBI
	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		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		EMSON

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

RA - 9002



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

TYPE OF COACH : RA Shell No : 9002 COACH_NO : 199533

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 08-FEB-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.	12232/04-2020
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	NIL
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	ESS ESS KAY ENGG. CO. PVT. LTD.	1377-20
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO.	2019-07-112
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO.	L & T

Group Name NON-PP SIDE

2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	ESS ESS KAY ENGG. CO. PVT. LTD.	NIL
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Group Name BOGIE PP SIDE

1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	206198
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Group Name BOGIE NPP SIDE

2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	206197
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Group Name UNDER FRAME

0	30716068-0, BATTERY BOX FOR 110V DC TL SYSTEM	DRG.No.CC71030 Alt.`b` QUALITY PLAN NO.QEQ 0005 VER.	NEERA ENTREPRISES	NIL
0	30727194-0, INVERTER CHANGEOVER CONTROL BOX	AW72411 ALT"c"	ELETCROWAVES	W25-K-1191842/ W25-K-19142
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19050330/ 19050331
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMERS	VTC-1935
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	BHASIN PACKARD ELECTRONICS (PVT) LTD.	09199613
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2017-03-240
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY.PVT .LTD	2017-03-245



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME			
0	45178215-0, LOW MAINTENANCE , LEAD ACID BATTERY 110V,10X5 CELL UNIT,90AH,5 HRS RATE WITH PPCP CONTAINER ONLY	IS:7660-88.	BHARAT BATTERY
Group Name UNDER FRAME PP SIDE			
0		UPS INTERNATION AL	NIL
0		MAA LAXMI INDUSTRY	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TABLE-1	NEC SWITCHGEAR S & CONTROLS
Group Name UNDER FRAME NPP SIDE			
0		NEERA ENTERPRISES	NIL
0		MAA LAXMI INDUSTRY	NIL
SSE/EL/QC		AME/WM QC/DY CQM I	