



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9023	BOGIE NO	197205 / 197206	DISPATCH DATE	30-SEP-19	
2.	RAILWAY	NR	TYPE OF COACH	LWCBAC	COACH NO	197063	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	39 T					
5.	Carrying Capacity	Seating	15	Sleeping	15	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	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	BIO-TOILET	RASANDIK				
	3	FLOOR BOARD	TWPL				
	4	PVC	RESPONSIVE				
	5	UIC VESTIBULES	KRP				
	6	WATER TANKS	SHIVALIK, RAIL FAB, MANOJ				
	7	BODY SIDE DOOR	JVR, JBM				
	8	VESTIBULE SLIDING DOOR	JBM				
	9	SEAT & BEARTH	AAR KAY FOAM				
	10	LAVATORY DOORS	CENTURY				
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--SUPRESION--RESION SYSEM SUPPLIED AND COMMISSIONED BY M/S INNOVATIVE RAIL MAINTENANCE PRIVATE LIMITED. 3-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR ON SIDE WALL AREA.					
	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			
		9023	NR	LWCBAC	197063	30-SEP-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	197205				197206			
ii.	Frame No.	ECBT-775				ECBT-771			
iii.	Bolster No.	PD-CA-1873				PD-CA-1880			
iv.	Axle No.	RWF - H9072		RWF - P6645		RWF - L1829		RWF - L2194	
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.	917.11	917.10	917.10	917.10	917.01	917.01	917.11	917.10
vii.	Wheel Disc No.	57680-9QJ0-TZ	52803-9RH3-TZ	35122-8QN4-TZ	35121-8RH2-TZ	22369-8PQ0-TZ	53091-9QJ7-TZ	44868-8RS9-TZ	53090-9QJ7-TZ
viii.	RB Nos.	11217	04924	04607	07787	11254	05304	05530	11326
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-19-06-1594	TAYAL-19-06-1555	TAYAL-19-06-1507
Items traceability:				

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	GBD-18-12	GBD
	ii.	Primary inner Spring	RSK-16-04	RSK
	iii.	Primary Damper	1176, 1168, 1265, 1573	SABOHEMA
	iv.	Secondary Damper	1329, 1489	GABRIEL
	v.	Lateral Damper	1874	GABRIEL
	vi.	Break cylinder & Caliper	B4952-691,B4109-691, B4955-691,B4111-691	KBI
	vii.	Break Disc		KBI
	viii.	Contral arm top		HAPL
	ix.	Control arm bottom		HAPL
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		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		GMT
	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

LWCBAC - 9023



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB PANTRY CAR**

TYPE OF COACH : LWCBAC Shell No : 9023 COACH_NO : 197063

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 27-SEP-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.	0119141595
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	ESS ESS KAY ENGG. CO. PVT. LTD.	939/19
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.	07195916
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.	07195887
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	INTERNATIONAL SWITCHGEAR S PVT. LTD.	L & T
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	INTERNATIONAL SWITCHGEAR S PVT. LTD.	SBC-HB-1906-0057
1	33641006-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	42150037
Group Name NON-PP SIDE				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	ESS ESS KAY ENGG. CO. PVT. LTD.	938/19
Group Name PANTRY				
1	33635213-1, HOT CASE	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
2	33635213-2, DEEP FREEZER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
3	33635213-3, REFRIGERATOR 300 LTRS CAPACITY	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
4	33635213-4, GEYSER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
5	33635213-5, CHIMNEY	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
LHB PANTRY CAR				
S.No PL No & Item Description		Drawing No	Make	Item Sr.No.(if any
Group Name PANTRY				
6	33635213-6, HEATER SET	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
7	33635213-7, OWEN TESTING GRILL	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
8	33635213-8, WATER PURIFIER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
9	33635213-9, FLYING INSECT KILLERS	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-032
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197205
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197206
Group Name UNDER FRAME				
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/009/2008 (Rev.1 WITH AM-1,RCF ANNX.-A)	AMARA RAJA BATTERIES LTD.	01/2019
1	33635080-1, PUMP	EDTS186	D R AUTO WITH KAPSON	2017-03-06
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19080035
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	MAA LAXMI INDUSTRY	015
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD.	1906-8278
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-07-147
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RSI SWITCHGEAR PVT. LTD.	1902-1777
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	2018-10-5274



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
LHB PANTRY CAR				
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name COMPARTMENT				
2	33641006-2, SPEAKERS	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	NIL
Group Name PP SIDE RIGHT HAND				
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1907947
Group Name UNDER FRAME PP SIDE				
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	INTERNATIONAL	NIL
Group Name UNDER FRAME NPP SIDE				
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	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	9024	BOGIE NO	197227 / 197228	DISPATCH DATE	30-SEP-19	
2.	RAILWAY	NR	TYPE OF COACH	LWCBAC	COACH NO	197064	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	39 T					
5.	Carrying Capacity	Seating	15	Sleeping	15	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	1102	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	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	BIO-TOILET	RAIL FAB, OMAX				
	3	FLOOR BOARD	TWPL				
	4	PVC	RESPONSIVE				
	5	UIC VESTIBULES	KRP				
	6	WATER TANKS	SHIVALIK, AMIT, SHIVALIK				
	7	BODY SIDE DOOR	JVR				
	8	VESTIBULE SLIDING DOOR	JBM				
	9	SEAT & BEARTH	AAR KAY FOAM				
	10	LAVATORY DOORS	EASTERN				
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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2--SUPRESION--RESION SYSEM SUPPLIED AND COMMISSIONED BY M/S INNOVATIVE RAIL MAINTENANCE PRIVATE LIMITED. 3-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR ON SIDE WALL AREA.					
	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			
		9024	NR	LWCBAC	197064	30-SEP-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	197227				197228			
ii.	Frame No.	ECBT-824				ECBT-822			
iii.	Bolster No.	NE-42				NE-41			
iv.	Axle No.	RWF - H2750		RWF - P6766		RWF - R3035		RWF - N4298	
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.	917.08	917.08	917.00	917.00	917.20	917.20	917.20	917.20
vii.	Wheel Disc No.	54655-9QH9-TZ	30308-8QP4-TZ	33559-8QN3-TZ	13404-8MW8-TZ	42552-8RM9-TZ	33238-8RG9-TZ	28381-8QN9-TZ	33241-8RG9-TZ
viii.	RB Nos.	10043	08031	10703	10883	09667	07976	09275	08867
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-19-6-1582	TAYAL-19-6-1530	TAYAL-19-6-1561	TAYAL-19-6-1564

Items traceability:

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	GBD-18-12	GBD
	ii.	Primary inner Spring	RSK-16-3	RSK
	iii.	Primary Damper	0879, 1568, 1255, 0888	SABOHEMA
	iv.	Secondary Damper	827, 1164	GABRIEL
	v.	Lateral Damper	1819	GABRIEL
	vi.	Break cylinder & Caliper	B7574-691,B6424-691, B7608-691,B6459-691	KBI
	vii.	Break Disc		KBI
	viii.	Contral arm top		HAPL
	ix.	Control arm bottom		HAPL
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		AVADH
	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		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

LWCBAC - 9024



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB PANTRY CAR**

TYPE OF COACH : LWCBAC Shell No : 9024 COACH_NO : 197064

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)
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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	KNOOR - BREMSE INDIA PVT.LTD.	0119091269
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2769-G-19
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	ESS ESS KAY ENGG. CO.	2019-04-017
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	ESS ESS KAY ENGG. CO.	L & T
1	33641006-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	3386313
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	HHPE-1906268
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	NIL

Group Name NON-PP SIDE

1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2772-G-19
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Group Name PANTRY

1	33635213-1, HOT CASE	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-033
2	33635213-2, DEEP FREEZER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-033
3	33635213-3, REFRIGERATOR 300 LTRS CAPACITY	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-033
4	33635213-4, GEYSER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-033
5	33635213-5, CHIMNEY	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-033
6	33635213-6, HEATER SET	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-033



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF LHB PANTRY CAR			
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name PANTRY			
7	33635213-7, OWEN TESTING GRILL	EDTS118	SPECTRUM SCIENTIFIC LTD SSCS-HB-033
8	33635213-8, WATER PURIFIER	EDTS118	SPECTRUM SCIENTIFIC LTD SSCS-HB-033
9	33635213-9, FLYING INSECT KILLERS	EDTS118	SPECTRUM SCIENTIFIC LTD SSCS-HB-033
Group Name BOGIE PP SIDE			
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY 197228
Group Name BOGIE NPP SIDE			
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY 197227
Group Name UNDER FRAME			
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNX.-A)	HBL POWER SYSTEMS LTD. 04/2019
1	33635080-1, PUMP	EDTS186	L E CORP. KAPSONS 1771216
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET 19080012
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD. 1906-82103
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD. 1906-8269
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD. 2019-07-153
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RSI SWITCHGEAR PVT.LTD. 19021789
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'.	ANKUR ENGINEERING WORKS NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS 2018-10-5288
Group Name COMPARTMENT			



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

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
LHB PANTRY CAR				
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name COMPARTMENT				
2	33641006-2, SPEAKERS	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	NIL
Group Name PP SIDE RIGHT HAND				
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1904403
Group Name UNDER FRAME PP SIDE				
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	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME NPP SIDE				
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	9025	BOGIE NO	197215 / 197216	DISPATCH DATE	30-SEP-19	
2.	RAILWAY	NR	TYPE OF COACH	LWCBAC	COACH NO	197065	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	39 T					
5.	Carrying Capacity	Seating	15	Sleeping	15	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	1100	
	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	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	BIO-TOILET		RAIL FAB, OMAX			
	3	FLOOR BOARD		TWPL			
	4	PVC		RESPONSIVE			
	5	UIC VESTIBULES		KRP			
	6	WATER TANKS		SHIVALIK, AMIT, SHIVALIK			
	7	BODY SIDE DOOR		JVR			
	8	VESTIBULE SLIDING DOOR		JBM			
	9	SEAT & BEARTH		AAR KAY FOAM			
	10	LAVATORY DOORS		EASTERN			
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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2--SUPRESION--RESION SYSEM SUPPLIED AND COMMISSIONED BY M/S INNOVATIVE RAIL MAINTENANCE PRIVATE LIMITED. 3-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR ON SIDE WALL AREA.					
	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			
		9025	NR	LWCBAC	197065	30-SEP-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	197215				197216			
ii.	Frame No.	ECBT-783				ECBT-757			
iii.	Bolster No.	PD-CA-1906				PD-CA-1872			
iv.	Axle No.	RWF - L2420		RWF - P7885		RWF - J1201		RWF - L2622	
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.	916.90	916.90	917.30	917.30	917.00	917.00	917.20	917.20
vii.	Wheel Disc No.	20352-8PQ1-TZ	35315-8QN4-TZ	30409-9MH2-TZ	31321-9OD9-TZ	30358-8QP7-TZ	51593-9PJ5-TZ	30361-8QP7-TZ	55176-9PG8-TZ
viii.	RB Nos.	08756	09547	06023	05631	10497	09608	09419	09535
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-19-05-1079	TAYAL-19-06-1596	TAYAL-19-06-1938	TAYAL-19-06-1554

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	GBD-18-12	GBD-18-12
	ii.	Primary inner Spring	RSK-14-05	RSK-18-12
	iii.	Primary Damper	0847, 1404, 1161, 1416	1353, 1048, 1572, 1531
	iv.	Secondary Damper	1163, 1509	1161, 1268
	v.	Lateral Damper	1873	1872
	vi.	Break cylinder & Caliper	B4663-691,B4037-691, B4959-691,B4033-691	B4877-691,B4030-691, B4879-691,B4024-691
	vii.	Break 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		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		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

LWCBAC - 9025



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB PANTRY CAR**

TYPE OF COACH : LWCBAC **Shell No : 9025** **COACH_NO : 197065**
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)
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.	011836066
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	3560-E-19
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	ESS ESS KAY ENGG. CO.	2019-04-026
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	ESS ESS KAY ENGG. CO.	L & T
1	33641006-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	4486310
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	1908-2079
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	NIL
Group Name NON-PP SIDE				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	3559-E-19
Group Name PANTRY				
1	33635213-1, HOT CASE	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
2	33635213-2, DEEP FREEZER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
3	33635213-3, REFRIGERATOR 300 LTRS CAPACITY	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
4	33635213-4, GEYSER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
5	33635213-5, CHIMNEY	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
6	33635213-6, HEATER SET	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
LHB PANTRY CAR				
S.No PL No & Item Description		Drawing No	Make	Item Sr.No.(if any
Group Name PANTRY				
7	33635213-7, OWEN TESTING GRILL	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
8	33635213-8, WATER PURIFIER	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
9	33635213-9, FLYING INSECT KILLERS	EDTS118	SPECTRUM SCIENTIFIC LTD	SSCS-HB-031
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197215
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197216
Group Name UNDER FRAME				
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	HBL POWER SYSTEMS LTD.	04/2019
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19070451/19070452
2	33635080-2, PUMP CONTROLLER	EDTS186	KAPSON (KIND) PUMP SET	19080043
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-1380
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	RAMYAA ELECTRO-GEAR PVT. LTD.	1906-8290
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-07-131
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RADIANT ELECTRICAL & ALLIED INDUSTRIES	2019-03-3011
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'.	ANKUR ENGINEERING WORKS	NIL



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB PANTRY CAR			
S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME			
1 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5342
Group Name COMPARTMENT			
2 33641006-2, SPEAKERS	EDTS173, TYPE-I	AHUJA BY PUNJAB RADIOS	NIL
Group Name PP SIDE RIGHT HAND			
2 33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1902249
Group Name UNDER FRAME PP SIDE			
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			
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	