



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9009	BOGIE NO	196809	/ 196810	DISPATCH DATE	27-JUN-19
2.	RAILWAY	NR	TYPE OF COACH	LWCBAC		COACH NO	194213
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	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	BIO-TOILET		RAIL FAB, JSL			
	3	FLOOR BOARD		TWPL			
	4	PVC		PREMIER POLYFILM			
	5	UIC VESTIBULES		POLYMER			
	6	WATER TANKS		RAIL TECH, MANOJ, RAIL FAB			
	7	BODY SIDE DOOR		JVR			
	8	VESTIBULE SLIDING DOOR		KALSI			
	9	SEAT & BEARTH		AAR KAY FOAM			
	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-SUPRESION - RESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S INNOVATIVE RAIL MAINTENANCE PRIVATE LIMITED. 3-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	
		9009	NR		LWCBAC		194213		27-JUN-19	

11.1 Wheel & Axle Details:									
i.	Bogie No.	196809				196810			
ii.	Frame No.	FIAT-CA-1077				SEW-11			
iii.	Bolster No.	PD-CA-1671				PD-CA-1563			
iv.	Axle No.	RWF - M2222		RWF - K5892		RWF - M3423		RWF - H2813	
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.	916.40	916.40	916.40	916.40	916.95	916.95	916.66	916.66
vii.	Wheel Disc No.	37214-8RM7-TZ	41683-8RP5-TZ	38483-8RL7-TZ	39526-8RS5-TZ	38479-8RL7-TZ	38463-8RN3-TZ	40969-9MG1-TZ	34541-9MI7-TZ
viii.	RB Nos.	14138	14767	14619	14402	27540	37102	37145	24455
ix.	RB Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

11.2 Secondary suspension load deflection Values:					
Description		Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i.	Make & Nos.	AVADH-19-5-1673	AVADH-19-5-1603	AVADH-19-2-1238	AVADH-19-2-1187

Items traceability:					
11.3	Sno.	Item			Make
	i.	Primary Outer Spring	RSK-18-08		RSK
	ii.	Primary inner Spring	RSK-16-06		RSK
	iii.	Primary Damper	7527, 7599, 7534, 7337		ESCORTS
	iv.	Secondary Damper	1272, 1274		GABRIEL
	v.	Lateral Damper	534		GABRIEL
	vi.	Break cylinder & Caliper	D19014-600,D19224-600, D19018-600,D19222-600		FTI
	vii.	Break Disc			FTI
	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			GMT
	xiii.	Lateral Bump stop			GMT
	xiv.	Traction center make			RNG
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			MGN
	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 - 9009



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB PANTRY CAR**

TYPE OF COACH : LWCBAC **Shell No :** 9009 **COACH_NO :** 194213
RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 24-JUN-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.	16/19/594
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-D-2315
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.	04192582
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.	04192594
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	INTERNATIONAL SWITCHGEARS	SBC-HB-1904037
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	INTERNATIONAL SWITCHGEARS	L & T
1	33641006-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	3316968

Group Name **NON-PP SIDE**

1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-D-2307
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Group Name **PANTRY**

1	33635213-1, HOT CASE	EDTS118	S.D.ENGINEERS	SDDS-HB-015
2	33635213-2, DEEP FREEZER	EDTS118	S.D.ENGINEERS	SDDS-HB-015
3	33635213-3, REFRIGERATOR 300 LTRS CAPACITY	EDTS118	S.D.ENGINEERS	SDDS-HB-015
4	33635213-4, GEYSER	EDTS118	S.D.ENGINEERS	SDDS-HB-015
5	33635213-5, CHIMNEY	EDTS118	S.D.ENGINEERS	SDDS-HB-015
6	33635213-6, HEATER SET	EDTS118	S.D.ENGINEERS	SDDS-HB-015



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	S.D.ENGINEER S SDDS-HB-015
8	33635213-8, WATER PURIFIER	EDTS118	S.D.ENGINEER S SDDS-HB-015
9	33635213-9, FLYING INSECT KILLERS	EDTS118	S.D.ENGINEER S SDDS-HB-015
Group Name BOGIE PP SIDE			
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL 196809
Group Name BOGIE NPP SIDE			
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS 196810
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 ANN.-A)	AMARA RAJA BATTERIES LTD. 09/2018
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET 18050263/ 18050264
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS 19051017
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER CORPORATION VTC-3089-LHB-681/ 662
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS 2019-01-113
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS 2019-01-113
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 2018-10-5319
Group Name COMPARTMENT			
2	33641006-2, SPEAKERS	EDTS173, TYPE-I	AHUJA BY PUNJAB RADIOS NIL
Group Name PP SIDE RIGHT HAND			



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 PP SIDE RIGHT HAND				
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19032127
Group Name UNDER FRAME PP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME NPP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRONICS	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	9010	BOGIE NO	196763 / 196764	DISPATCH DATE	28-JUN-19	
2.	RAILWAY	NR	TYPE OF COACH	LWCBAC	COACH NO	194215	
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	1103	1104		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	7.1	Air Brake Testing:	Description	Specified			
		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.	8.1	Painting Details:	Type of Paint	Make	Average Gloss Value		
		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				
	3	FLOOR BOARD	TWPL				
	4	PVC	PREMIER POLYFILM				
	5	UIC VESTIBULES	POLYMER				
	6	WATER TANKS	RAIL TECH, RAIL FAB				
	7	BODY SIDE DOOR	JVR				
	8	VESTIBULE SLIDING DOOR	KALSI				
	9	SEAT & BEARTH	AAR KAY FOAM				
	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-SUPRESION - RESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S INNOVATIVE RAIL MAINTENANCE PRIVATE LIMITED. 3-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			
		9010	NR	LWCBAC	194215	28-JUN-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	196763				196764			
ii.	Frame No.	FIAT-CA-1090				ECBT-418			
iii.	Bolster No.	PD-CA-1374				SECPL-37			
iv.	Axle No.	RWF - H8771		RWF - J9190		RWF - M2338		RWF - K5759	
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.	916.20	916.20	916.30	916.32	916.20	916.20	916.30	916.30
vii.	Wheel Disc No.	44688-8RP3-TZ	39907-8RS6-TZ	39634-8RS4-TZ	44687-8RP8-TZ	41056-8RM5-TZ	36744-8RM0-TZ	40020-8RL3-TZ	40779-8RS2-TZ
viii.	RB Nos.	14457	16431	24936	15776	06575	15706	14322	16001
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-18-5-355	TAYAL-18-6-431	TAYAL-18-6-499	TAYAL-18-6-435

Items traceability:					
11.3	Sno.	Item			Make
	i.	Primary Outer Spring	RSK-18-08	RSK-18-08	RSK
	ii.	Primary inner Spring	RSK-16-06	RSK-16-06	RSK
	iii.	Primary Damper	4161, 2163, 11588, 10972	7251, 7702, 7259, 7304	GABRIEL ESCORTS
	iv.	Secondary Damper	590, 646	681, 618	GABRIEL
	v.	Lateral Damper	464	465	GABRIEL
	vi.	Break cylinder & Caliper	B0441-691,A9716-691, B0445-691,A9796-691	A0437-691,A9812-691, B2434-691,A9792-691	KBI
	vii.	Break Disc			FTI
	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			GMT
	xiii.	Lateral Bump stop			GMT
	xiv.	Traction center make			EMSON SARITA
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			MGN
	xvii.	Traction center elastic			GMT
	xviii.	Secondary rubber pad			NA
	xix.	Rubber spring			NA
	xx.	Anti roll bar make			EMSON 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

LWCBAC - 9010



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB PANTRY CAR**

TYPE OF COACH : LWCBAC **Shell No : 9010** **COACH_NO : 194215**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 26-JUN-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.	0118255712
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	16-M-676
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.	04192575
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.	04192602
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	ESS ESS KAY ENGG. CO.	029/04/2019
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	3090760
Group Name NON-PP SIDE				
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	16-M-696
Group Name PANTRY				
1	33635213-1, HOT CASE	EDTS118	S.D.ENGINEERS	SDAS-HB-008
2	33635213-2, DEEP FREEZER	EDTS118	S.D.ENGINEERS	SDAS-HB-008
3	33635213-3, REFRIGERATOR 300 LTRS CAPACITY	EDTS118	S.D.ENGINEERS	SDAS-HB-008
4	33635213-4, GEYSER	EDTS118	S.D.ENGINEERS	SDAS-HB-008
5	33635213-5, CHIMNEY	EDTS118	S.D.ENGINEERS	SDAS-HB-008
6	33635213-6, HEATER SET	EDTS118	S.D.ENGINEERS	SDAS-HB-008
7	33635213-7, OWEN TESTING GRILL	EDTS118	S.D.ENGINEERS	SDAS-HB-008
8	33635213-8, WATER PURIFIER	EDTS118	S.D.ENGINEERS	SDAS-HB-008
9	33635213-9, FLYING INSECT KILLERS	EDTS118	S.D.ENGINEERS	SDAS-HB-008



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 BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATION AL	196766
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATION AL	196764
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 ANNEX.-A)	AMARA RAJA BATTERIES LTD.	03/2019
1	33635080-1, PUMP	EDTS186	L E CORP. KAPSONS	1905037
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	18051045
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORME R CORPORATIO N	VTC-3089-LHB-685/ 663
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2019-01-061
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-05-282
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	2019-04-7047
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	INTEC CORPORATIO N	19032149
Group Name UNDER FRAME PP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	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				



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 NPP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRONICS	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	9011	BOGIE NO	196805 / 196806	DISPATCH DATE	29-JUN-19	
2.	RAILWAY	NR	TYPE OF COACH	LWCBAC	COACH NO	194216	
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	1096		
	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	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	2	BIO-TOILET	RAIL FAB				
	3	FLOOR BOARD	TWPL				
	4	PVC	PREMIER POLYFILM				
	5	UIC VESTIBULES	POLYMER				
	6	WATER TANKS	RAIL TECH, RAIL FAB				
	7	BODY SIDE DOOR	JVR				
	8	VESTIBULE SLIDING DOOR	KALSI				
	9	SEAT & BEARTH	AAR KAY FOAM				
	10	LAVATORY DOORS	CMT				
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 SYSTEM SUPPLIED AND COMMISSIONED BY M/S INNOVATIVE RAIL MAINTENANCE PRIVATE LIMITED. 3-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			
		9011	NR	LWCBAC	194216	29-JUN-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	196805				196806			
ii.	Frame No.	FIAT LG-1192				FIAT-CA-1076			
iii.	Bolster No.	AMIT-CA-106				PD-CA-1672			
iv.	Axle No.	RWF - K5963		RWF - K5472		RWF - H9250		RWF - M7281	
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.	916.40	916.40	916.25	916.25	916.50	916.50	916.20	916.20
vii.	Wheel Disc No.	00228-8MJ8-TZ	00226-8MJ7-TZ	03789-8MH7-TZ	02403-8MK4-TZ	38528-8RS5-TZ	40600-8RL4-TZ	02404-8MK4-TZ	03790-8MH7-TZ
viii.	RB Nos.	25719	25225	25692	25539	24459	24363	25405	34781
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-19-2-1239	AVADH-19-2-1206	AVADH-19-2-1190	AVADH-19-5-1605

Items traceability:				
Sno.	Item	STLI-19-02	STLI-19-02	STLI
ii.	Primary Outer Spring	RSK-16-03	RSK-16-03	RSK
iii.	Primary inner Spring	4342, 4107, 4106, 4195	4058, 4059, 4055, 4054	GABRIEL
iv.	Primary Damper	591, 535	642, 620	GABRIEL
v.	Secondary Damper	530	535	GABRIEL
vi.	Lateral Damper	D19177-600,D19190-600, D19176-600,D19193-600	D19027-600,D19101-600, D19034-600,D19281-600	FTI
vii.	Break cylinder & Caliper			FTI
viii.	Break Disc			KUMAR
ix.	Contral arm top			KUMAR
x.	Control arm bottom			GMT
xi.	Top rubber Pad			GMT
xii.	Vertical Bump Stop			GMT
xiii.	Ball Joint Control arm			GMT
xiiii.	Lateral Bump stop			GMT
xv.	Traction center make			RNG
xvi.	Traction lever make			JI
xvii.	Ball joint traction lever			MGN
xviii.	Traction center elastic			GMT
xix.	Secondary rubber pad			NA
xx.	Rubber spring			NA
xxi.	Anti roll bar make			EMSON
xxii.	Ball joint roll link			SARITA
xxiii.	Fork make			SARITA

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

LWCBAC - 9011



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB PANTRY CAR**

TYPE OF COACH : LWCBAC Shell No : 9011 COACH_NO : 194216

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 29-JUN-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 WEBCO	13/19/524
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	ESS ESS K-(AMIT MAKE)	880-19
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.	04192544
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.	04192555
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	INTERNATIONAL SWITCHGEAR S	L & T
0	33640695-0, SWITCH BOARD CABINET FOR HOT BUFFET COACH	EDTS-134 REV-A	INTERNATIONAL SWITCHGEAR S	19040039
1	33641006-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-I	AHUJA BY PUNJAB RADIOS	NA

Group Name NON-PP SIDE

2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	ESS ESS K-(AMIT MAKE)	881/19
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Group Name PANTRY

1	33635213-1, HOT CASE	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
2	33635213-2, DEEP FREEZER	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
3	33635213-3, REFRIGERATOR 300 LTRS CAPACITY	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
4	33635213-4, GEYSER	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
5	33635213-5, CHIMNEY	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
6	33635213-6, HEATER SET	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027



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	SDAS-HB-027
8	33635213-8, WATER PURIFIER	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
9	33635213-9, FLYING INSECT KILLERS	EDTS118	SPECTRUM SCIENTIFIC LTD	SDAS-HB-027
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	196805
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	196806
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 ANNEX.-A)	AMARA RAJA BATTERIES LTD.	03/2019
1	33635080-1, PUMP	EDTS186	KIND (KAPSON INDUS.)	18050325 & 18050326
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	1905105
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-672/704
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2019-01-076
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-05-286
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	2019-04-7029
Group Name COMPARTMENT				
2	33641006-2, SPEAKERS	EDTS173, TYPE-I	AHUJA BY PUNJAB RADIOS	NIL
Group Name PP SIDE RIGHT HAND				



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 PP SIDE RIGHT HAND				
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGG	1810942
Group Name UNDER FRAME PP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	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	MAA LAXMI INDUSTRY	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	PRIME ELECTRONICS	NIL
SSE/EL/QC		AME/WM QC/DY CQM I		