



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8158	BOGIE NO	196437 / 196438	DISPATCH DATE	04-MAY-19	
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO	192751	
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 LWACCN, LGS, LWSCN, LWSCZAC, LWFAC, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1102	1104		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:	Description	Specified				
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm ²			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply			
8.	Painting Details:	Type of Paint	Make	Average Gloss Value			
	8.1	Paint	PU PAINT	NAROLACK	89 / 88		
	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	RESPONSIVE				
	4	FLOOR BOARD	TWPL				
	5	UIC VESTIBULES	POLYMER				
	6	BODY SIDE DOOR	JBM, JVR				
	7	VESTIBULE SLIDING DOOR	JBM				
	8	BIO-TOILET	RAIL TECH, OMAX				
	9	WATER TANKS	AMIT, AMIT, RAIL FAB				
	10	LAVATORY DOORS	CMT				
10.	10.1	Modification/ Trial (If any): NIL					
	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	
		8158	NR		LWACCN		192751		04-MAY-19	

11.1 Wheel & Axle Details:									
i.	Bogie No.	196437				196438			
ii.	Frame No.	SCI-FM-102				ECBT-336			
iii.	Bolster No.	SF-CA-157				SF-CA-159			
iv.	Axle No.	RWF - H-8982		RWF - K-6057		RWF - L-5991		RWF - K-5400	
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.	917.01	917.03	917.00	917.02	916.90	916.92	917.00	917.02
vii.	Wheel Disc No.	36015-8RM1-TZ	38887-8RT0-TZ	37313-8RQ3-TZ	37300-8RQ7-TZ	25757-8PN5-TZ	25758-8PN5-TZ	25759-8PN5-TZ	25755-8PN5-TZ
viii.	RB Nos.	17071	18571	16031	08456	09839	08952	09734	09125
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-18-12-1481	TAYAL-18-12-1475	TAYAL-18-12-1474	TAYAL-18-12-1472

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	RSK-17-08	RSK-17-08
	ii.	Primary inner Spring	FSK-18-07	FSK-18-07
	iii.	Primary Damper	10962, 10738, 10875, 11379	10962, 10738, 10875, 11379
	iv.	Secondary Damper	8665, 8666	8666, 8665
	v.	Lateral Damper	0163	0163
	vi.	Break cylinder & Caliper	A19359-600,A19241-600, A19355-600,A19243-600	A19302-600,A19133-600, A19299-600,A19134-600
	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		GMT
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		RNG
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		SGA
	xvii.	Traction center elastic		SB
	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 - 8158



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 : 8158 COACH_NO : 192751

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 03-MAY-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.	48/18/2020
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKPVT LTD.	291163 & 291164
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2394-A-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD 195370 & 195367
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	4548846
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL

Group Name NON-PP SIDE

2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	18081180
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2095-I-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1808831
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	30/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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	RAMYAA ELECTRO-GEAR PVT. LTD.	1902-82-30
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-604
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2180



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)
Group Name UNDER FRAME				
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-11-2229
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0197
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	MV ELECTRO SYSTEM PVT. LTD..	003/18/2019
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S MAA LAXMI INDUSTRY	196437
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	MAA LAXMI INDUSTRY	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S MAA LAXMI INDUSTRY	196438
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRIES	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	8160	BOGIE NO	196567	/ 196568	DISPATCH DATE	07-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	192754
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		1104	1104	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		NAROLACK	89 / 88	
	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		POLYMER			
	6	BODY SIDE DOOR		JBM, JVR			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RAIL TECH, OMAX			
	9	WATER TANKS		AMIT, AMIT, RAIL FAB			
	10	LAVATORY DOORS		CMT			
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8160	NR	LWACCN	192754	07-MAY-19

11.1 Wheel & Axle Details:									
i.	Bogie No.	196567				196568			
ii.	Frame No.	ECBT-419				ECBT-462			
iii.	Bolster No.	PD-CA-1475				PD-CA-1415			
iv.	Axle No.	RWF - L6065		RWF - L5883		RWF - M3533		RWF - K5398	
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.	916.44	916.44	916.70	916.70	916.85	916.85	916.00	916.00
vii.	Wheel Disc No.	36399-8RR8-TZ	43855-8RR2-TZ	17591-7OQ0-TZ	30047-8QM6-TZ	20302-7OK0-TZ	14986-7PK0-TZ	18661-7PL4-TZ	17516-7OQ5-TZ
viii.	RB Nos.	14558	16480	14781	14629	15748	15561	15626	15483
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-19-2-1195	AVADH-19-2-1220	AVADH-19-2-1185	AVADH-19-2-1233

Items traceability:						
11.3	Sno.	Item	Make			
	i.	Primary Outer Spring	RSK-19-01	RSK-18-12	RSK	
	ii.	Primary inner Spring	RSK-18-10	RSK-18-10	RSK	
	iii.	Primary Damper	214682, 214804, 214471, 214613	214632, 214453, 214748, 214672	IAI	
	iv.	Secondary Damper	8618, 8631	4248, 10746	KBI	
	v.	Lateral Damper	219406	219509	IAI	
	vi.	Break cylinder & Caliper	B3105-691,B2313-691, B3104-691,B2288-691	B2984-691,B2268-691, B2989-691,B1906-691	KBI	
	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			GMT	
	xiii.	Lateral Bump stop			GMT	
	xiv.	Traction center make			EMSON	
	xv.	Traction lever make			JI	
	xvi.	Ball joint traction lever			MTC	
	xvii.	Traction center elastic			GMT	
	xviii.	Secondary rubber pad			NA	
	xix.	Rubber spring			NA	
	xx.	Anti roll bar make			SARITA	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		

LWACCN - 8160



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 : 8160** **COACH_NO : 192754**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 06-MAY-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	KNORR	0118064520
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKPVT LTD.	291540 & 291541
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2046-H-17
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEB CD 195335 & 195339
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	4548817
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
Group Name NON-PP SIDE				
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORK PVT.LTD	CPA-6829/02/2018
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2057-H-17
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1709199
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	09/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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	RAMYAA ELECTRO-GEAR PVT. LTD.	1902-82-40
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-564
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2147



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)
Group Name UNDER FRAME				
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-11-2227
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.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0205
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	TROLEX INDIA PVT LTD.	180739
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196567
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	MAA LAXMI INDUSTRY	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196568
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRIES	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. 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	8157	BOGIE NO	196483	/ 196484	DISPATCH DATE	08-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO		192753
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 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		NAROLACK	89 / 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		RESPONSIVE			
	4	FLOOR BOARD		TWPL			
	5	UIC VESTIBULES		POLYMER			
	6	BODY SIDE DOOR		JBM, JVR			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RAIL TECH, OMAX			
	9	WATER TANKS		AMIT, AMIT, RAIL FAB			
	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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723.					
	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	
		8157	NR		LWACCN		192753		08-MAY-19	

11.1 Wheel & Axle Details:									
i.	Bogie No.	196483				196484			
ii.	Frame No.	ECBT-167				ECBT-271			
iii.	Bolster No.	PD-CA-1406				SF-CA-173			
iv.	Axle No.	RWF - K-5285		RWF - L-5992		RWF - K-5410		RWF - H-7274	
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.	916.53	916.55	916.60	916.60	916.50	916.50	916.54	916.54
vii.	Wheel Disc No.	00107-8MJ9-TZ	41190-8RQ5-TZ	36448-8RR8-TZ	37431-8RQ0-TZ	33238-7SJ1-TZ	32637-7SJ1-TZ	38834-8RQ2-TZ	38824-8RQ6-TZ
viii.	RB Nos.	15646	18536	16283	16462	16152	16219	21218	16514
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-18-11-1465	TAYAL-18-12-1492	TAYAL-18-11-1445	TAYAL-18-11-1462

Items traceability:					
11.3	Sno.	Item			Make
	i.	Primary Outer Spring	RSK-19-01		RSK
	ii.	Primary inner Spring	FSK-18-07		FSK
	iii.	Primary Damper	11175, 11029, 11155, 10847		GABRIEL
	iv.	Secondary Damper	8780, 8775		KBI
	v.	Lateral Damper	219602		IAI
	vi.	Break cylinder & Caliper	B3128-691,B2340-691, B2126-691,B2317-691		KBI
	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			GMT
	xiii.	Lateral Bump stop			GMT
	xiv.	Traction center make			SARITA
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			PRAG
	xvii.	Traction center elastic			SGA
	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 - 8157



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 : 8157 COACH_NO : 192753

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 07-MAY-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	KNORR	0118064525
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKPVT LTD.	290614 & 290615
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2052-H-17
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD 195342 & 195334
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	3340883
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
Group Name NON-PP SIDE				
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	1808118
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2056-H-17
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1706052
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	19/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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 TRANSFORMER CORPORATION	VTC-3089-LHB-182
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-699
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2181



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)
Group Name UNDER FRAME				
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-11-2272
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.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0243
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	HIND RECTIFIER	H-018418077
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196483
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	MAA LAXMI INDUSTRY	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196484
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRIES	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	8154	BOGIE NO	196539	/ 196540	DISPATCH DATE	14-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	192755
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 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		NAROLACK	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		RESPONSIVE			
	4	FLOOR BOARD		TWPL			
	5	UIC VESTIBULES		POLYMER			
	6	BODY SIDE DOOR		JBM, JVR			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RAIL TECH, OMAX			
	9	WATER TANKS		AMIT, RAIL FAB			
	10	LAVATORY DOORS		HIND, 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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723.					
	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	
		8154	NR		LWACCN		192755		14-MAY-19	

11.1 Wheel & Axle Details:									
i.	Bogie No.	196539				196540			
ii.	Frame No.	FIAT-CA-363				FIAT-CA-402			
iii.	Bolster No.	PD-CA-1452				PD-CA-631			
iv.	Axle No.	RWF - K-5324		RWF - K-5368		RWF - K-6064		RWF - L-5974	
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.	917.13	917.15	917.00	917.00	917.10	917.10	917.10	917.12
vii.	Wheel Disc No.	18316-70Q0-TZ	43082-8RS7-TZ	12416-7ON3-TZ	41265-8RL5-TZ	12486-7ON3-TZ	20231-7PK4-TZ	13305-7ON5-TZ	18314-70Q0-TZ
viii.	RB Nos.	14594	16342	08914	14382	16222	08763	09853	15968
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-18-10-1543	TAYAL-18-10-1539	TAYAL-18-12-1535	TAYAL-18-12-1539

Items traceability:				
Sno.	Item	CMSTL-19-01	CMSTL-19-01	Make
i.	Primary Outer Spring	CMSTL-19-01	CMSTL-19-01	CMSTL
ii.	Primary inner Spring	RSK-18-11	RSK-18-11	RSK
iii.	Primary Damper	1960, 1637, 2058, 1634	2067, 1952, 1612, 1632	GABRIEL
iv.	Secondary Damper	8532, 8530	8534, 8525	KBI
v.	Lateral Damper	219579	219588	IAI
vi.	Break cylinder & Caliper	A18470-600,A19312-600, A19471-600,A19319-600	A19411-600,A19321-600, A19409-600,A19318-600	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			GMT
xiii.	Lateral Bump stop			GMT
xiv.	Traction center make			SARITA
xv.	Traction lever make			JI
xvi.	Ball joint traction lever			MTC
xvii.	Traction center elastic			SGA
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 - 8154



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 : 8154** **COACH_NO : 192755**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 14-MAY-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	SAB WABCO INDIA LTD.	50/18/2084
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKPVT LTD.	290596 & 290597
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2264-L-17
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD 195349 & 195391
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	3090757
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
Group Name NON-PP SIDE				
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	1771212
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2264-L-17
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1809890
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	29/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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 TRANSFORMER CORPORATION	VTC-3089-LHB-201
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-636
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2243



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)
Group Name UNDER FRAME				
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-11-2397
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.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1810-198
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	MV ELECTRO SYSTEM PVT. LTD..	002/18/2019
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196540
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	MAA LAXMI INDUSTRY	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196539
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRIES	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	8161	BOGIE NO	196561 / 196562	DISPATCH DATE	15-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO	192756
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 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		NAROLACK	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	POLYMER			
	6	BODY SIDE DOOR	JBM, JVR			
	7	VESTIBULE SLIDING DOOR	JBM			
	8	BIO-TOILET	RAIL TECH, JSL			
	9	WATER TANKS	AMIT, RAIL FAB			
	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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723.				
	10.2	Deviations (If any): NIL				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8161	NR	LWACCN	192756	15-MAY-19

11.1 Wheel & Axle Details:									
i.	Bogie No.	196561				196562			
ii.	Frame No.	FIAT-CA-953				ECBT-459			
iii.	Bolster No.	PD-CA-1273				PD-CA-1417			
iv.	Axle No.	RWF - K-5425		RWF - L-8302		RWF - K-5370		RWF - L-8448	
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.	916.77	916.77	916.80	916.80	916.95	916.95	916.90	916.90
vii.	Wheel Disc No.	42524-8SI3-TZ	42524-8SI3-TZ	13728-7OL1-TZ	17281-7ON9-TZ	17283-ON9-TZ	13723-7OL1-TZ	17285-7ON9-TZ	14742-7PK2-TZ
viii.	RB Nos.	15671	16040	15710	15698	16022	16289	16410	14323
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-18-11-1599	TAYAL-18-11-1456	TAYAL-18-12-1498	TAYAL-18-12-1457

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	RSK-19-01	RSK-19-01
	ii.	Primary inner Spring	RSK-18-11	RSK-18-11
	iii.	Primary Damper	214738, 214701, 214527, 214416	214641, 214578, 214431, 214530
	iv.	Secondary Damper	10734, 10687	10759, 10691
	v.	Lateral Damper	219590	219577
	vi.	Break cylinder & Caliper	8705-691,8604-691, 8708-691,8602-691	8760-691,8517-691, 7325-691,7194-691
	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		GMT
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		SGA
	xvii.	Traction center elastic		SGA
	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 - 8161



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 : 8161** **COACH_NO : 192756**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 15-MAY-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	KNORR	0118064516
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKPVT LTD.	17050323 & 17050324
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	018041060
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2088-I-17
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD 195381 & 195351
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	309051
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	2253-I-17
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1705035
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	07/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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 TRANSFORMER CORPORATION	VTC-3089-LHB-223
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-631
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-11-2257



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)
Group Name UNDER FRAME				
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-11-2403
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.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0232
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	HIND RECTIFIER	H-018418085
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196562
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	MAA LAXMI INDUSTRY	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196561
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRIES	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. 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	8147	BOGIE NO	196551	/ 196552	DISPATCH DATE	18-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN		COACH NO	192757
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		1104	1102	
	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	89 / 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		RESPONSIVE			
	4	FLOOR BOARD		TWPL			
	5	UIC VESTIBULES		POLYMER			
	6	BODY SIDE DOOR		JVR			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RAIL FAB, JSL			
	9	WATER TANKS		AMIT, RAIL FAB			
	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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723.					
	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	
		8147	NR		LWACCN		192757		18-MAY-19	

11.1 Wheel & Axle Details:									
i.	Bogie No.	196551				196552			
ii.	Frame No.	ECBT-253				ECBT-258			
iii.	Bolster No.	PD-CA-1429				PD-CA-1460			
iv.	Axle No.	RWF - K-5362		RWF - L-5988		RWF - K-5275		RWF - W-2461	
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.	917.05	917.05	917.10	917.10	917.09	917.11	917.00	917.02
vii.	Wheel Disc No.	02335-7NK8-TZ	29454-7SH7-TZ	02334-7NL4-TZ	20180-7OK8-TZ	44459-8RS7-TZ	41086-RM5-TZ	31670-8QM5-TZ	36310-8RR5-TZ
viii.	RB Nos.	15632	14208	16170	15713	14425	15662	15746	15638
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-18-12-1514	TAYAL-18-12-1587	TAYAL-18-12-1524	TAYAL-18-12-1554

Items traceability:

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	RSK-19-01	CMSTL-18-12
	ii.	Primary inner Spring	RSK-18-10	RSK-18-10
	iii.	Primary Damper	1693, 1649, 1637, 1950	1648, 1647, 1817, 2086
	iv.	Secondary Damper	8538, 8522	10717, 8533
	v.	Lateral Damper	219521	219567
	vi.	Break cylinder & Caliper	A3770-691,A3380-691, A3790-691,A3378-691	8714-691,8603-691, 8712-691,8601-691
	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		GMT
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		MTC
	xvii.	Traction center elastic		SGA
	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 - 8147



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 : 8147** **COACH_NO : 192757**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 18-MAY-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	KNORR	0118054443
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKPVT LTD.	291157 & 291158-05/18
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2497-C-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD 195401 & 195397
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	4773505
2	33640993-2, SPEAKERS	EDTS173,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL

Group Name NON-PP SIDE

2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORK PVT.LTD	CPA-7219/06/18
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2499-C-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1711299
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	21/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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	RAMYAA ELECTRO-GEAR PVT. LTD.	190282-52
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-631
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-11-2256



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)
Group Name UNDER FRAME				
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-08-2061
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.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0254
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	ESS ESS KAY ENGG. CO. PVT. LTD.	2018/05/037
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196551
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 ANNX. A	MAA LAXMI INDUSTRY	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196552
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRIES	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNX. 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	9001	BOGIE NO	196611 / 196612	DISPATCH DATE	22-MAY-19	
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO	192758	
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	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 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		NAROLACK	88 / 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	POLYMER				
	6	BODY SIDE DOOR	JVR				
	7	VESTIBULE SLIDING DOOR	JBM				
	8	BIO-TOILET	RAIL FAB, JSL				
	9	WATER TANKS	AMIT, RAIL FAB				
	10	LAVATORY DOORS	HINDUSTAN, 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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723.					
	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	LWACCN	192758	22-MAY-19

11.1 Wheel & Axle Details:									
i.	Bogie No.	196611				196612			
ii.	Frame No.	ECBT-363				ECBT-361			
iii.	Bolster No.	PD-CA-1503				PD-CA-1570			
iv.	Axle No.	RWF - M3682		RWF - J2244		RWF - J1446		RWF - K6110	
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	916.00	916.00	917.00	917.00	917.00	917.00
vii.	Wheel Disc No.	19102-8PQ2-TZ	38873-8RQ7-TZ	40331-8RS4-TZ	43527-8RL5-TZ	44692-8RP3-TZ	18449-7ON1-TZ	18375-7OK4-TZ	18376-7OK4-TZ
viii.	RB Nos.	14443	16252	15874	07720	14448	07964	05932	15490
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-18-6-348	TAYAL-18-6-447	SI-18-6-1418	SI-18-6-1374

Items traceability:					
11.3	Sno.	Item			Make
	i.	Primary Outer Spring	RSK-19-01		RSK
	ii.	Primary inner Spring	RSK-18-11		RSK
	iii.	Primary Damper	2214, 2031, 2029, 1856		GABRIEL
	iv.	Secondary Damper	8733, 8743		KBI
	v.	Lateral Damper	219582		IAI
	vi.	Break cylinder & Caliper	A5237-691,A4709-691, A5204-691,A4773-691		B2393-691,B1570-691, B2415-691,B1611-691
	vii.	Break Disc			KBI
	viii.	Contral arm top			KUMAR
	ix.	Control arm bottom			KUMAR
	x.	Top rubber Pad			SGA
	xi.	Vertical Bump Stop			GMT
	xii.	Ball Joint Control arm			GMT
	xiii.	Lateral Bump stop			GMT
	xiv.	Traction center make			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			SARITA
	xxi.	Ball joint roll link			SARITA
	xxii.	Fork make			EMSON

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

LWACCN - 9001



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 : 9001** **COACH_NO : 192758**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 21-MAY-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	KNORR	0118084687
1	33635080-1, PUMP	EDTS186	KALSI METAL WORK PVT.LTD	291542/ 291543 - 05/18
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORK PVT.LTD	CPA-7179-06/18
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2518-C-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD-195399/ 195380
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	3340716
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	2519-C-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1709170
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	27/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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 TRANSFORMER CORPORATION	VTC-3089-LHB-206
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-771



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)
Group Name UNDER FRAME				
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-11-2268
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-09-2165
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.	09/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0277
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB-485
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196633
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	LIGHT ENGG. CORP.	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"	M/S CHANDA & CHANDA	196640
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	HIND RECTIFIERS LIMITED	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	8162	BOGIE NO	196569	/ 196570	DISPATCH DATE	29-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO		192760
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 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	SEAT & BEARTH		OVPL			
	3	PVC		RESPONSIVE			
	4	FLOOR BOARD		TWPL			
	5	UIC VESTIBULES		POLYMER			
	6	BODY SIDE DOOR		JBM			
	7	VESTIBULE SLIDING DOOR		JBM			
	8	BIO-TOILET		RAIL FAB, JSL			
	9	WATER TANKS		AMIT, RAIL FAB			
	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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-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	
		8162	NR		LWACCN		192760		29-MAY-19	

11.1 Wheel & Axle Details:									
i.	Bogie No.	196569				196570			
ii.	Frame No.	ECBT-086				ECBT-448			
iii.	Bolster No.	SF-CA-740				PD-CA-1428			
iv.	Axle No.	RWF - L-5949		RWF - K-6022		RWF - K-5666		RWF - L-5982	
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	917.00	917.00	917.10	917.10
vii.	Wheel Disc No.	40329-8RR5-TZ	16664-70Q2-TZ	17671-70Q0-TZ	16665-70Q2-TZ	40482-8RL3-TZ	40484-8RM4-TZ	40085-8RL9-TZ	40083-8RL9-TZ
viii.	RB Nos.	15701	14223	14652	15571	14532	14535	14561	14428
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-19-02-1207	AVADH-19-02-1215	AVADH-19-02-1212	AVADH-19-02-1214

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	RSK-19-01	RSK-19-01
	ii.	Primary inner Spring	RSK-18-10	RSK-18-10
	iii.	Primary Damper	1757, 1629, 1985, 11557	1941, 11212, 1698, 2056
	iv.	Secondary Damper	8630, 8633	8628, 8619
	v.	Lateral Damper	219488	219392
	vi.	Break cylinder & Caliper	7323-691,7115-691, 7222-691,7116-691	B2987-691,B2349-691, B3090-691,B2358-691
	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		GMT
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		EMSON
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		SGA
	xvii.	Traction center elastic		GMT
	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 - 8162



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 : 8162 COACH_NO : 192760

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 27-MAY-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	KNORR	0118074591
1	33635080-1, PUMP	EDTS186	KALSI METAL WORK PVT.LTD	291107/ 291108-05/18
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	18041021
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2421-B-18
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES ELECTRONICS PVT. LTD.	WEBCD- 195391/ 195371
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	4548646
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	2423-B-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1708147
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	11/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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 TRANSFORMER CORPORATION	VTC-3089-LHB-238
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-797
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-11-2241



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"	INTEG ELECTRONICS	2018-11-2392
0 33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	09/2018
0 33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0202

Group Name COMPARTMENT

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	NEC SWITCHGEAR S & CONTROLS	2017-12-5150
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Group Name UNDER FRAME PP SIDE

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196570
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	SIDWAL REFRIGERATION INDUSTRIES 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"	M/S CHANDA & CHANDA	196569
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	LIGHT ENGG. CORP.	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	8163	BOGIE NO	196441 / 196442	DISPATCH DATE	30-MAY-19
2.	RAILWAY	NR	TYPE OF COACH	LWACCN	COACH NO	192759
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 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	SEAT & BEARTH	OVPL			
	3	PVC	PREMIER POLYFILM			
	4	FLOOR BOARD	TWPL			
	5	UIC VESTIBULES	CEMCON			
	6	BODY SIDE DOOR	JBM			
	7	VESTIBULE SLIDING DOOR	JBM			
	8	BIO-TOILET	RAIL FAB			
	9	WATER TANKS	AMIT, RAIL FAB			
	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.00, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-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			
		8163	NR	LWACCN	192759	30-MAY-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	196441				196442			
ii.	Frame No.	SCI-FM-95				ECBT-216			
iii.	Bolster No.	SF-CA-161				SF-CA-148			
iv.	Axle No.	RWF-J-2326		RWF-J-1550		RWF-J-9092		RWF-K-6017	
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.	916.00	916.00	916.00	916.00	916.95	916.97	917.00	917.00
vii.	Wheel Disc No.	25511-8MR1-TZ	22506-8PQ0-TZ	22505-8PN6-TZ	25514-8MR1-TZ	41239-RR0-TZ	41234-8RM4-TZ	41267-8RL5-TZ	37676-8RP4-TZ
viii.	RB Nos.	09556	09907	21166	08690	08229	09034	09869	09229
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-18-12-1485	TAYAL-18-12-1478	TAYAL-18-12-1544	TAYAL-18-12-1532

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	RSK-18-07	RSK-18-07
	ii.	Primary inner Spring	FSK-18-07	FSK-18-07
	iii.	Primary Damper	10658, 11474, 11346, 10770	11402, 11295, 11012, 10659
	iv.	Secondary Damper	8670, 8669	8672, 8668
	v.	Lateral Damper	156	155
	vi.	Break cylinder & Caliper	A19468-600,A19252-600, A19469-600,A19254-600	A19294-600,A19115-600, A19293-600,A19116-600
	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		GMT
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		EMSON
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		SGA
	xvii.	Traction center elastic		SGA
	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 - 8163



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 : 8163** **COACH_NO : 192759**

RAILWAY : NR **COUPLING TYPE : CBC** **DATE OF FITMENT: 30-MAY-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.	13/19/507
1	33635080-1, PUMP	EDTS186	KALSI METAL WORK PVT.LTD	291187/ 291188
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORK PVT.LTD	CPA-7207-06/18
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	2432-B-18
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.	04192535/ 04192557
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	4548647
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	2422-B-18
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	AMIT ENGINEERS	AE-1711271
1	33635330-1, HOT CASE	EDTS139	VISHAL GAS SERVICES	32/07/2018
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	VISHAL GAS SERVICES	07/2018
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 TRANSFORMER CORPORATION	VTC-3089-LHB-232
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER	EDTS366,Ren-Nil	VIMAL TRANSFORMER CORPORATION	VTC-3089-LHB-797



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 33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-11-2226
0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	2018-11-2420
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.	09/2018
0 33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	GOPAL ENGINEERING WORKS	NIL
1 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1811-0248

Group Name COMPARTMENT

1 33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	MV ELECTRO SYSTEM PVT. LTD.	012-18/19
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Group Name UNDER FRAME PP SIDE

1 33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196441
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	SIDWAL REFRIGERATION INDUSTRIES 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

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	196442
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	LIGHT ENGG. CORP.	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