



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9033	BOGIE NO	206419	/ 206420	DISPATCH DATE	04-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201679
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	1		GS	87 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	GREEN PLY				
	2	LUGGAGE RACK	HANSPAL				
	3	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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
		9033	NR	LVPHX	201679	04-MAR-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206419				206420			
ii.	Frame No.	ECBT-1414				RAIL TECH-72			
iii.	Bolster No.	AMIT-06				AMIT-04			
iv.	Axle No.	RWF - T7994		RWF - T7665		RWF - T7485		RWF - T4366	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.10	917.10	917.10	917.10	917.10	917.10	917.30	917.30
vii.	Wheel Disc No.	39432-90H5-TZ	81705-90F3-TZ	81710-9VE0-TZ	60863-9QJ9-TZ	57788-9QJ0-TZ	51868-9PJ6-TZ	60875-9QJ9-TZ	57785-9QJ0-TZ
viii.	RB Nos.	38646	45582	34823	39766	38768	42007	45541	46357
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-20-01-7349	AVADH-20-01-7328	AVADH-20-01-7289	AVADH-20-01-7321

Items traceability:				
Sno.	Item			Make
i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12	CMSTL
ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08	CMSTL
iii.	Primary Damper	03457, 03468, 03458, 03694	03494, 03679, 03512, 03513	GBEL
iv.	Secondary Damper	2298, 2700	2419, 2296	GABRIEL
v.	Lateral Damper	296744	296564	IAI
vi.	Brake cylinder & Caliper	B20020-700,B2003-700, B20018-700,B20001-700	B20009-700,B20007-700, B20014-700,B20010-700	FTI
vii.	Brake Disc			FTI
viii.	Contral arm top			KUMAR
ix.	Control arm bottom			KUMAR
x.	Top rubber Pad			AVADH
xi.	Vertical Bump Stop			AVADH
xii.	Ball Joint Control arm			AVADH
xiii.	Lateral Bump stop			AVADH
xiv.	Traction center make			EMSON
xv.	Traction lever make			TAJ
xvi.	Ball joint traction lever			AVADH
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			EMSON
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			RNG

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

LVPHX - 9033



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9033 **COACH_NO :** 201679

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 04-MAR-20

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"	M/S CHANDA & CHANDA	NIL
-----------------------	-----------------	---------------------	-----

Group Name **BOGIE NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	NIL
-----------------------	-----------------	---------------------	-----

Group Name **UNDER FRAME**

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11553
---	-----------------	--	-------

0 33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	HBL POWER SYSTEM LIMITD	NIL
--	---	-------------------------	-----

0 33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-031
--	-----------------------------------	----------------------	-------------------

0 33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33640580-0, FEEDER JUNCTION BOX	EDTS328	HIND RECTIFIERS LIMITED	NIL
-----------------------------------	---------	-------------------------	-----

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33641419-0, REGULATED BATTERY CHARGER	EDTS109	ELECTRONICS EQUIPMENT CO. PVT. LTD.	111900054
---	---------	-------------------------------------	-----------

1 33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-014
---	---------	------------------------------	-------------

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
---	--	-------------------------	-----

Group Name **COMPARTMENT**

0 45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL
--	---------	-------------------	-----

Group Name **UNDER FRAME PP SIDE**



रॉलिंग स्टॉक प्रमाणपत्र
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No PL No & Item Description		Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ		EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
Group Name UNDER FRAME NPP SIDE			
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	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9025	BOGIE NO	206437	/ 206438	DISPATCH DATE	05-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201681
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1103	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/cm2		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm2		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	1		GS	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD		TWPL			
	2	LUGGAGE RACK		HANSPAL			
	3	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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			
		9025	NR	LVPHX	201681	05-MAR-20			

11.1 Wheel & Axle Details:									
i.	Bogie No.	206437				206438			
ii.	Frame No.	FIAT LG-1564				FIAT LG-1578			
iii.	Bolster No.	AMIT-68				AMIT-21			
iv.	Axle No.	RWF - V3688		RWF - T6537		RWF - V3828		RWF - T6379	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.20	917.20	917.20	917.20	917.10	917.10	917.00	917.00
vii.	Wheel Disc No.	57117-9QL0-TZ	34304-9QI4-TZ	39434-9OH5-TZ	81708-9VE0-TZ	94683-9XG6-TZ	86284-9WK4-TZ	94685-9XG6-TZ	85534-9WK5-TZ
viii.	RB Nos.	42050	37025	37204	46388	39978	37291	46273	41887
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-20-01-7286	AVADH-20-01-7317	AVADH-20-01-7319	AVADH-20-01-7324

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12
	ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08
	iii.	Primary Damper	271132, 270652, 269714, 270596	270435, 270338, 270294, 271176
	iv.	Secondary Damper	2662, 2546	2545, 2660
	v.	Lateral Damper	296991	296956
	vi.	Brake cylinder & Caliper	B20023-700,B20021-700, B20027-700,B20043-700	B20025-700,B20040-700, B20032-700,B20022-700
	vii.	Brake 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		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		EMSON
	xv.	Traction lever make		SARITA TAJ
	xvi.	Ball joint traction lever		AVADH
	xvii.	Traction center elastic		AVADH
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		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

LVPHX - 9025



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX Shell No : 9025 COACH_NO : 201681

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 05-MAR-20

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"	M/S CHANDA & CHANDA	NIL
-----------------------	-----------------	---------------------	-----

Group Name	BOGIE NPP SIDE
------------	----------------

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	NIL
-----------------------	-----------------	---------------------	-----

Group Name	UNDER FRAME
------------	-------------

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11555
---	-----------------	--	-------

0 33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	AMARA RAJA BATTERIES LTD.	NIL
--	---	---------------------------	-----

0 33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-9KVA-047
--	-----------------------------------	----------------------	-------------------

0 33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
-----------------------------------	---------	-----------------	-----

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS	11/19/0061
---	---------	----------------	------------

1 33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	AMIT ENTERPRISES	AE-USBC-1689
---	---------	------------------	--------------

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
---	--	-------------------------	-----

Group Name	COMPARTMENT
------------	-------------

0 45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL
--	---------	-------------------	-----

Group Name	UNDER FRAME PP SIDE
------------	---------------------



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

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL
Group Name UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL
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	9029	BOGIE NO	206365 / 206366	DISPATCH DATE	05-MAR-20	
2.	RAILWAY	NR	TYPE OF COACH	LVPHX	COACH NO	201680	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	GREEN PLY				
	2	LUGGAGE RACK	HANSPAL				
	3	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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
		9029	NR	LVPHX	201680	05-MAR-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206365				206366			
ii.	Frame No.	ECBT-1419				ECBT-1400			
iii.	Bolster No.	PD-CA-2429				PD-CA-2433			
iv.	Axle No.	RWF - T8738		RWF - T4050		RWF - T6753		RWF - T8745	
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.	916.80	916.80	916.90	916.90	917.00	917.00	917.10	917.10
vii.	Wheel Disc No.	86119- 9WK4-TZ	39426- 9OH5-TZ	39425- 9OH5-TZ	79263- 9VG3-TZ	31210- 9OD5-TZ	53681- 9PG8-TZ	82107- 9VF3-TZ	91629- 9WM5-TZ
viii.	RB Nos.	42047	37474	45735	37418	45742	35892	45646	45064
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-20-01-6808	AVADH-20-01-7271	AVADH-20-01-7253	AVADH-20-01-7228

Items traceability:				
Sno.	Item	CMSTL-19-12	CMSTL-19-08	Make
i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12	CMSTL
ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08	CMSTL
iii.	Primary Damper	261661, 260694, 260894, 260681	261653, 260842, 261441, 260994	IAI
iv.	Secondary Damper	2537, 2976	2907, 2901	GABRIEL
v.	Lateral Damper	296534	296616	IAI
vi.	Brake cylinder & Caliper	A20019-700,C19027-700, L19068-700,L19045-700	A20008-700,L19026-700, F18073-700,N19004-700	FTI
vii.	Brake Disc			FTI
viii.	Contral arm top			KUMAR
ix.	Control arm bottom			KUMAR
x.	Top rubber Pad			AVADH
xi.	Vertical Bump Stop			AVADH
xii.	Ball Joint Control arm			AVADH
xiii.	Lateral Bump stop			GMT
xiv.	Traction center make			EMSON
xv.	Traction lever make			TAJ
xvi.	Ball joint traction lever			GMT
xvii.	Traction center elastic			GMT
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			EMSON
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			SARITA

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

LVPHX - 9029



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9029 **COACH_NO :** 201680

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 04-MAR-20

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"	MAA LAXMI INDUSTRIES	NIL
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRIES	NIL
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11535
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	AMARA RAJA BATTERIES LTD.	NIL
0	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-9KVA-024
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS	11/19/0023
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG	2020/02/009
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
Group Name COMPARTMENT				
0	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
Group Name UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
SSE/EL/QC		AME/WM QC/DY CQM I	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9036	BOGIE NO	206442 / 206441	DISPATCH DATE	05-MAR-20	
2.	RAILWAY	NR	TYPE OF COACH	LVPHX	COACH NO	201678	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	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 /min	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	GS	85 / 85		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	TWPL				
	2	LUGGAGE RACK	HANSPAL				
	3	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	4	ROOF CEILING	RCF MADE				
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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			
		9036	NR	LVPHX	201678	05-MAR-20			

11.1 Wheel & Axle Details:									
i.	Bogie No.	206442				206441			
ii.	Frame No.	FIAT LG-1545				KE-101			
iii.	Bolster No.	AMIT-79				AMIT-19			
iv.	Axle No.	RWF - V4594		RWF - T6896		RWF - V4528		RWF - V3703	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.10	917.10	917.20	917.20	917.00	917.10	916.60	916.60
vii.	Wheel Disc No.	94684-9XG6-TZ	85538-9WK5-TZ	60877-9QJ9-TZ	60873-9OJ9-TZ	57558-9QL0-TZ	33482-9OI3-TZ	37479-9OJ7-TZ	57559-9QL0-TZ
viii.	RB Nos.	42055	35851	400215	45556	37301	35991	45303	37022
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-20-01-7315	AVADH-20-01-7305	AVADH-20-01-7283	AVADH-20-01-7285

Items traceability:				
Sno.	Item		Make	
i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12	CMSTL
ii.	Primary inner Spring	CMSTL-19-07	CMSTL-19-07	CMSTL
iii.	Primary Damper	271174, 262059, 269744, 261630	271130, 270768, 270125, 270023	IAI
iv.	Secondary Damper	2516, 3004	2982, 3005	GABRIEL
v.	Lateral Damper	296571	296886	IAI
vi.	Brake cylinder & Caliper	B20030-700,B20025-700, B20024-700,B20011-700	B20037-700,B20023-700, B20026-700,B20024-700	FTI
vii.	Brake Disc			FTI
viii.	Contral arm top			KUMAR
ix.	Control arm bottom			KUMAR
x.	Top rubber Pad			GMT
xi.	Vertical Bump Stop			AVADH
xii.	Ball Joint Control arm			AVADH
xiii.	Lateral Bump stop			AVADH
xiv.	Traction center make			EMSON
xv.	Traction lever make			TAJ
xvi.	Ball joint traction lever			AVADH
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			EMSON
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			RNG

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

LVPHX - 9036



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9036 **COACH_NO :** 201678

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 05-MAR-20

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"	M/S CHANDA & CHANDA	NIL
-----------------------	-----------------	---------------------	-----

Group Name **BOGIE NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	NIL
-----------------------	-----------------	---------------------	-----

Group Name **UNDER FRAME**

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11441
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)	HBL POWER SYSTEM LIMITD	NIL
0 33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-032
0 33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0 33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0 33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS	12/19/056
1 33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	AMIT ENGINEERS	1670
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

Group Name **COMPARTMENT**

0 45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL
--	---------	-------------------	-----

Group Name **UNDER FRAME PP SIDE**



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
Group Name UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9037	BOGIE NO	206171	/ 206172	DISPATCH DATE	05-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201682
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	1		GS	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD		TWPL			
	2	LUGGAGE RACK		HANSPAL			
	3	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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
		9037	NR	LVPHX	201682	05-MAR-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206171				206172			
ii.	Frame No.	ECBT-1354				FIAT LG-1530			
iii.	Bolster No.	NE-42				SECPL-551			
iv.	Axle No.	RWF - T6354		RWF - T6362		RWF - T4287		RWF - T6421	
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.	917.06	917.06	916.80	916.80	917.10	917.10	917.10	917.10
vii.	Wheel Disc No.	61164-9QL1-TZ	52196-9QH2-TZ	53580-9PG8-TZ	53581-9PP3-TZ	32080-9MH8-TZ	32078-9MH8-TZ	34234-9OI6-TZ	32082-9MH6-TZ
viii.	RB Nos.	34266	33899	33016	34391	34445	34428	41614	35279
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.	RESISTO-19-11-9983	RESISTO-19-11-10119	AVADH-19-12-6660	AVADH-19-12-6661

Items traceability:

11.3	Sno.	Item			Make	
	i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-07	CMSTL	
	ii.	Primary inner Spring	CMSTL-19-07	CMSTL-19-07	CMSTL	
	iii.	Primary Damper	262117, 261724, 261451, 261930	262184, 262214, 261825, 261497	IAI	
	iv.	Secondary Damper	2482, 2276	2472, 1996	GABRIEL	
	v.	Lateral Damper	271264	271262	IAI	
	vi.	Brake cylinder & Caliper	E19824-2K,F19525-2K, F19269-2K,F19553-2K	F19222-2K,F19331-2K, E19226-2K,F19332-2K	FTI	
	vii.	Brake Disc			KBI	
	viii.	Contral arm top			KUMAR	
	ix.	Control arm bottom			KUMAR	
	x.	Top rubber Pad			AVADH	
	xi.	Vertical Bump Stop			AVADH	
	xii.	Ball Joint Control arm			AVADH	
	xiii.	Lateral Bump stop			AVADH	GMT
	xiv.	Traction center make			SARITA	
	xv.	Traction lever make			TAJ	
	xvi.	Ball joint traction lever			AVADH	
	xvii.	Traction center elastic			AVADH	
	xviii.	Secondary rubber pad			NA	
	xix.	Rubber spring			NA	
	xx.	Anti roll bar make			EMSON	
	xxi.	Ball joint roll link			SARITA	
	xxii.	Fork make			EMSON	

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

LVPHX - 9037



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9037 **COACH_NO :** 201682

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 05-MAR-20

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"	MAA LAXMI INDUSTRIES	NIL
-----------------------	-----------------	----------------------	-----

Group Name **BOGIE NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
-----------------------	-----------------	-------------------	-----

Group Name **UNDER FRAME**

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11185
---	-----------------	--	-------

0 33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	HBL POWER SYSTEM LIMITD	NIL
--	---	-------------------------	-----

0 33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-011
--	-----------------------------------	----------------------	-------------------

0 33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
-----------------------------------	---------	-----------------	-----

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33641419-0, REGULATED BATTERY CHARGER	EDTS109	ELECTRONICS EQUIPMENT CO. PVT. LTD.	11900060
---	---------	-------------------------------------	----------

1 33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	AMIT ENGINEERS	AE-USBC-1692
---	---------	----------------	--------------

0 33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG WORKS	NIL
---	--	------------------	-----

Group Name **COMPARTMENT**

0 45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL
--	---------	-------------------	-----

Group Name **UNDER FRAME PP SIDE**



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL	NIL
Group Name UNDER FRAME NPP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL	NIL
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9042	BOGIE NO	206491	/ 206492	DISPATCH DATE	06-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201684
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body			23700+10/-0		
	ii)	Maximum width over Body			3240-8/+0 mm, 3050 mm (for LWSCZDAC)		
	iii)	Maximum height from Rail Level			4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)		
	iv)	CBC Height	Specified: 1105 +0/-15 mm			1105	1105
	v)	CBC (Make)				SANROK	SANROK
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm2		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	1		GS	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD			TWPL		
	2	LUGGAGE RACK			HANSPAL		
	3	EP BRAK / BRAKE EQUIPMENT			FAVELLY		
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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			
		9042	NR	LVPHX	201684	06-MAR-20			

11.1 Wheel & Axle Details:									
i.	Bogie No.	206491				206492			
ii.	Frame No.	ECBT-1433				ECBT-1459			
iii.	Bolster No.	PD-CA-2338				PD-CA-2553			
iv.	Axle No.	RWF - V4363		RWF - V3938		RWF - T8508		RWF - T7047	
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	917.04	917.04	917.10	917.10	917.00	917.00
vii.	Wheel Disc No.	94289-9WM1-TZ	84583-9VD1-TZ	34504-9OF4-TZ	97780-8XG7-TZ	39184-9OJ3-TZ	39183-9OJ3-TZ	81819-9VD9-TZ	84585-9VD1-TZ
viii.	RB Nos.	37792	45124	45168	29568	39901	33450	400863	38734
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-20-01-6861	TAYAL-20-01-6859	TAYAL-20-01-6834	TAYAL-20-01-6828

Items traceability:						
11.3	Sno. Item				Make	
	i. Primary Outer Spring	CMSTL-19-12		CMSTL-19-12		CMSTL
	ii. Primary inner Spring	CMSTL-19-07		CMSTL-19-07		CMSTL
	iii. Primary Damper	271018, 269890, 271148, 270742		271004, 269861, 271129, 270459		IAI
	iv. Secondary Damper	3057, 2817		3100, 2813		GABRIEL
	v. Lateral Damper	296802		296785		IAI
	vi. Brake cylinder & Caliper	B20049-700,B20051-700, B20040-700,B20045-700		B20054-700,B20026-700, B20053-700,B20047-700		FTI
	vii. Brake Disc					FTI
	viii. Contral arm top					HAPL
	ix. Control arm bottom					HAPL
	x. Top rubber Pad					AVADH
	xi. Vertical Bump Stop					GMT
	xii. Ball Joint Control arm					AVADH
	xiii. Lateral Bump stop					AVADH
	xiv. Traction center make					SARITA
	xv. Traction lever make					AEW
	xvi. Ball joint traction lever					AVADH
	xvii. Traction center elastic					AVADH
	xviii. Secondary rubber pad					NA
	xix. Rubber spring					NA
	xx. Anti roll bar make					EMSON
	xxi. Ball joint roll link					SARITA
	xxii. Fork make					RNG

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

LVPHX - 9042



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9042 **COACH_NO :** 201684

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 06-MAR-20

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"	PRIME ELECTRONICS	NIL
---	---------------------	-----------------	-------------------	-----

Group Name **BOGIE NPP SIDE**

2	33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
---	---------------------	-----------------	-------------------	-----

Group Name **UNDER FRAME**

0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11618
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	HBL POWER SYSTEM LIMITD	NIL
0	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-019
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	HIND RECTIFIERS LIMITED	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	HIND RECTIFIERS LIMITED	NIL
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	ELECTRONICS EQUIPMENT CO. PVT. LTD.	11900061
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-037
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG WORKS	NIL

Group Name **COMPARTMENT**



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF LHB VP PARCEL VAN HIGH CAPACITY COACH				
S.No PL No & Item Description		Drawing No	Make	Item Sr.No.(if any)
Group Name COMPARTMENT				
0	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL
Group Name UNDER FRAME PP SIDE				
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL	NIL
Group Name UNDER FRAME NPP SIDE				
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL	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	9045	BOGIE NO	206497 / 206498	DISPATCH DATE	06-MAR-20	
2.	RAILWAY	NR	TYPE OF COACH	LVPHX	COACH NO	201685	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1105	1105		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:	Description	Specified				
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm ²			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply			
8.	Painting Details:	Type of Paint	Make	Average Gloss Value			
	8.1	Paint	PU	GS	87 / 87		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	TWPL				
	2	LUGGAGE RACK	HANSPAL				
	3	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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
		9045	NR	LVPHX	201685	06-MAR-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206497				206498			
ii.	Frame No.	ECBT-1464				ECBT-1479			
iii.	Bolster No.	AMIT-74				AMIT-155			
iv.	Axle No.	RWF - T7666		RWF - T6760		RWF - T4353		RWF - T6426	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.00	917.00	917.20	917.20	917.40	917.40	916.50	916.50
vii.	Wheel Disc No.	35689- 9011-TZ	31705- 90D7-TZ	56528- 9P16-TZ	57739- 9QJ0-TZ	37576- 9M17-TZ	37579- 9M17-TZ	31704- 90D7-TZ	35687- 9011-TZ
viii.	RB Nos.	39758	35300	35215	39926	39578	32187	35857	35166
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-20-1-6890	TAYAL-20-1-6886	TAYAL-20-1-6903	TAYAL-20-1-6905

Items traceability:				
Sno.	Item			Make
i.	Primary Outer Spring	STLI-19-12		STLI
ii.	Primary inner Spring	STLI-19-07		STLI
iii.	Primary Damper	269777, 270286, 270248, 270664		IAI
iv.	Secondary Damper	3099, 2819		GABRIEL
v.	Lateral Damper	296970		IAI
vi.	Brake cylinder & Caliper	B20045-700,B20031-700, B20044-700,B20029-700		FTI
vii.	Brake Disc			KBI
viii.	Contral arm top			HAPL
ix.	Control arm bottom			HAPL
x.	Top rubber Pad			AVADH
xi.	Vertical Bump Stop			AVADH
xii.	Ball Joint Control arm			GMT
xiii.	Lateral Bump stop			GMT
xiv.	Traction center make			SARITA
xv.	Traction lever make			AEW
xvi.	Ball joint traction lever			AVADH
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			EMSON
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			RNG

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

LVPHX - 9045



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9045 **COACH_NO :** 201685

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 06-MAR-20

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"	PRIME ELECTRONICS	NIL
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11628
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	HBL POWER SYSTEM LIMITD	NIL
0	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-049
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATION AL SWITCHGEAR PVT LTD	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	HIND RECTIFIERS LIMITED	NIL
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATION AL SWITCHGEAR PVT LTD	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS COMPANY PVT.LTD	12/19/0051
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-026
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
Group Name COMPARTMENT				
0	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
Group Name UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9034	BOGIE NO	206489	/ 206490	DISPATCH DATE	07-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201683
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body			23700+10/-0		
	ii)	Maximum width over Body			3240-8/+0 mm, 3050 mm (for LWSCZDAC)		
	iii)	Maximum height from Rail Level			4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)		
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			ESCORTS	ESCORTS	
	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	1		GS	85 / 85	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD		TWPL			
	2	LUGGAGE RACK		HANSPAL			
	3	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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
		9034	NR	LVPHX	201683	07-MAR-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206489				206490			
ii.	Frame No.	FIAT LG-1567				ECBT-1478			
iii.	Bolster No.	PD-CA-2554				AMIT-154			
iv.	Axle No.	RWF - V6318		RWF - V6070		RWF - V5680		RWF - V6292	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.30	917.30	917.00	917.00	917.00	917.00	917.30	917.30
vii.	Wheel Disc No.	35548-9MH3-TZ	35544-9MH3-TZ	38997-9OH7-TZ	34057-9OI6-TZ	79437-9WF5-TZ	38110-9OJ8-TZ	35545-9MH3-TZ	79432-9WF5-TZ
viii.	RB Nos.	38694	40024	45444	39916	37914	400546	400668	39896
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-20-02-7622	AVADH-20-02-7579	TAYAL-20-01-6842	TAYAL-20-01-6858

Items traceability:				
Sno.	Item	CMSTL-19-12	CMSTL-19-07	Make
i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12	CMSTL
ii.	Primary inner Spring	CMSTL-19-07	CMSTL-19-07	CMSTL
iii.	Primary Damper	270932, 269791, 270202, 270031	270967, 269873, 269654, 270992	IAI
iv.	Secondary Damper	2551, 2814	2555, 2811	GABRIEL
v.	Lateral Damper	296799	297000	IAI
vi.	Brake cylinder & Caliper	B20057-700,B20048-700, B20060-700,B20049-700	B20052-700,B20050-700, B20048-700,B20059-700	FTI
vii.	Brake Disc			KBI
viii.	Contral arm top			HAPL
ix.	Control arm bottom			HAPL
x.	Top rubber Pad			AVADH
xi.	Vertical Bump Stop			GMT
xii.	Ball Joint Control arm			AVADH
xiii.	Lateral Bump stop			AVADH
xiv.	Traction center make			SARITA
xv.	Traction lever make			AEW
xvi.	Ball joint traction lever			AVADH
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			EMSON
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			RNG

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

LVPHX - 9034



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9034 **COACH_NO :** 201683

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 05-MAR-20

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"	PRIME ELECTRONICS	NIL
-----------------------	-----------------	-------------------	-----

Group Name **BOGIE NPP SIDE**

2 33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
-----------------------	-----------------	-------------------	-----

Group Name **UNDER FRAME**

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11544
---	-----------------	--	-------

0 33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	HBL POWER SYSTEM LIMITD	NIL
--	---	-------------------------	-----

0 33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-017
--	-----------------------------------	----------------------	-------------------

0 33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
-----------------------------------	---------	-----------------	-----

0 33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
------------------------------------	----------------	----------------------------------	-----

0 33641419-0, REGULATED BATTERY CHARGER	EDTS109	ELECTRONICS EQUIPMENT CO. PVT. LTD.	1190062
---	---------	-------------------------------------	---------

1 33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-041
---	---------	------------------------------	-------------

0 33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG WORKS	NIL
---	--	------------------	-----

Group Name **COMPARTMENT**

0 45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL
--	---------	-------------------	-----

Group Name **UNDER FRAME PP SIDE**



रॉलिंग स्टॉक प्रमाणपत्र
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No PL No & Item Description		Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ		EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
Group Name UNDER FRAME NPP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ		EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL 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	9041	BOGIE NO	206495	/ 206496	DISPATCH DATE	07-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201688
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU		GS	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD		TWPL			
	2	LUGGAGE RACK		HANSPAL			
	3	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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
		9041	NR	LVPHX	201688	07-MAR-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	206495				206496			
ii.	Frame No.	ECBT-1458				ECBT-1476			
iii.	Bolster No.	PD-CA-2438				AMIT-146			
iv.	Axle No.	RWF - T7756		RWF - V4294		RWF - T8178		RWF - T7830	
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.	916.60	916.60	917.15	917.15	917.00	917.00	917.30	917.30
vii.	Wheel Disc No.	52740-9QH5-TZ	38851-9OF3-TZ	57735-9QJ0-TZ	57114-9QL0-TZ	38853-9OF3-TZ	38861-9OF3-TZ	36886-9OD3-TZ	35688-9011-TZ
viii.	RB Nos.	39132	45799	45648	38893	39746	45677	45645	38176
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-20-2-7590	AVADH-20-2-7593	TAYAL-20-1-6904	TAYAL-20-1-6935

Items traceability:				
Sno.	Item		Make	
i.	Primary Outer Spring	STLI-19-12	STLI-19-12	STLI
ii.	Primary inner Spring	STLI-19-07	STLI-19-07	STLI
iii.	Primary Damper	269652, 269677, 271142, 270032	270636, 270937, 270784, 271146	IAI
iv.	Secondary Damper	2818, 2557	2812, 2815	GABRIEL
v.	Lateral Damper	296745	262456	IAI
vi.	Brake cylinder & Caliper	B20058-700,B20054-700, B20059-700,B20060-700	B20042-700,B20053-700, B20039-700,B20055-700	FTI
vii.	Brake Disc			KBI
viii.	Contral arm top			KUMAR
ix.	Control arm bottom			KUMAR
x.	Top rubber Pad			AVADH
xi.	Vertical Bump Stop			AVADH
xii.	Ball Joint Control arm			GMT
xiii.	Lateral Bump stop			AVADH
xiv.	Traction center make			EMSON
xv.	Traction lever make			SARITA
xvi.	Ball joint traction lever			AVADH
xvii.	Traction center elastic			AVADH
xviii.	Secondary rubber pad			NA
xix.	Rubber spring			NA
xx.	Anti roll bar make			EMSON
xxi.	Ball joint roll link			SARITA
xxii.	Fork make			RF

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

LVPHX - 9041



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9041 **COACH_NO :** 201688

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 07-MAR-20

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"	PRIME ELECTRONICS	NIL
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11203
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	AMARA RAJA BATTERIES LTD.	NIL
0	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-020
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS COMPANY PVT.LTD	12/19/0062
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-035
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
Group Name COMPARTMENT				
0	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL



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

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No PL No & Item Description		Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ		EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL
Group Name UNDER FRAME NPP SIDE			
0 33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ		EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9044	BOGIE NO	206493	/ 206494	DISPATCH DATE	07-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201686
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm2		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU		GS	87 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD		TWPL			
	2	LUGGAGE RACK		HANSPAL			
	3	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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	
		9044	NR		LVPHX		201686		07-MAR-20	

11.1 Wheel & Axle Details:									
i.	Bogie No.	206493				206494			
ii.	Frame No.	ECBT-1456				ECBT-1457			
iii.	Bolster No.	PD-CA-2475				AMIT-138			
iv.	Axle No.	RWF - T7295		RWF - V5307		RWF - T7117		RWF - V5279	
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	916.90	916.90	916.90	916.90	917.00	917.00
vii.	Wheel Disc No.	32198-9015-TZ	34520-90G1-TZ	39399-90E5-TZ	35691-9011-TZ	52741-9QH5-TZ	57736-9QJ0-TZ	35543-9MH3-TZ	39393-90E5-TZ
viii.	RB Nos.	38618	401589	40623	38627	39919	45856	45639	34967
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-20-2-7567	AVADH-20-2-7564	AVADH-20-2-7569	AVADH-20-2-7562

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	STLI-19-12	STLI-19-12
	ii.	Primary inner Spring	STLI-19-07	STLI-19-07
	iii.	Primary Damper	271133, 269640, 271120, 270193	269660, 269956, 271162, 270653
	iv.	Secondary Damper	2816, 3056	3107, 2556
	v.	Lateral Damper	296903	271270
	vi.	Brake cylinder & Caliper	B20006-700,B20043-700, B20050-700,B20056-700	B20046-700,B20036-700, B20047-700,B20046-700
	vii.	Brake Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		AVADH
	xii.	Ball Joint Control arm		GMT
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		SARITA
	xvi.	Ball joint traction lever		AVADH
	xvii.	Traction center elastic		AVADH
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		RF

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

LVPHX - 9044



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9044 **COACH_NO :** 201686

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 07-MAR-20

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"	PRIME ELECTRONICS	NIL
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11534
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	AMARA RAJA BATTERIES LTD.	NIL
0	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-013
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS COMPANY PVT.LTD	12/19/0073
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-027
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
Group Name COMPARTMENT				
0	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF LHB VP PARCEL VAN HIGH CAPACITY COACH			
S.No	PL No & Item Description	Drawing No	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
Group Name UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL NIL
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9039	BOGIE NO	206513	/ 206514	DISPATCH DATE	12-MAR-20
2.	RAILWAY	NR	TYPE OF COACH	LVPHX		COACH NO	201687
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	33.5 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	CBC (Make)			SANROK	SANROK	
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU		GS	88 / 88	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	TWPL				
	2	LUGGAGE RACK	HANSPAL				
	3	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
10.	10.1	Modification/ Trial (If any): 1.VINYL FILM 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			
		9039	NR	LVPHX	201687	12-MAR-20			

11.1 Wheel & Axle Details:									
i.	Bogie No.	206513				206514			
ii.	Frame No.	ECBT-1509				ECBT-1503			
iii.	Bolster No.	AMIT-156				AMIT-126			
iv.	Axle No.	RWF - T7446		RWF - T7709		RWF - V6421		RWF - T7759	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.20	917.20	917.40	917.40	917.00	917.00	917.10	917.10
vii.	Wheel Disc No.	31706-90D7-TZ	34409-90F1-TZ	37577-9MI7-TZ	57737-9QJ0-TZ	39388-90H6-TZ	39398-9015-TZ	32202-9015-TZ	90280-9WL9-TZ
viii.	RB Nos.	40624	40100	37877	400777	37691	37687	44311	40464
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-20-1-6854	TAYAL-20-1-6872	TAYAL-20-1-6822	TAYAL-20-1-6824

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	STLI-19-12	STLI-19-12
	ii.	Primary inner Spring	STLI-19-07	STLI-19-07
	iii.	Primary Damper	270237, 270026, 270362, 270050	270440, 270717, 269859, 270470
	iv.	Secondary Damper	2694, 2552	3060, 2904
	v.	Lateral Damper	296536	296665
	vi.	Brake cylinder & Caliper	B20064-700,B20032-700, B20055-700,B20033-700	B20065-700,B20034-700, B20056-700,B20035-700
	vii.	Brake Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		AVADH
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		SARITA
	xvi.	Ball joint traction lever		AVADH
	xvii.	Traction center elastic		AVADH
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		RNG

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

LVPHX - 9039



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB VP PARCEL VAN HIGH CAPACITY COACH

TYPE OF COACH : LVPHX **Shell No :** 9039 **COACH_NO :** 201687

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 07-MAR-20

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"	PRIME ELECTRONICS	NIL
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	11611
0	33614477-0, 110V, 120AH, VRLA, SMF BATTERY SET WITH 19 MONO BLOCKS (6V MONO BLOCK EACH) PRECHARGED WITH INTER CE	RDSO/PE/Spec./AC/0009/2008 (Rev.1 WITH AM-1,RCF ANNEX.-A)	AMARA RAJA BATTERIES LTD.	NIL
0	33635043-0, 9KVA 750V/415V/190V AC, 3-PHASE,STAR-STAR-STAR, DRY TYPE,AIR COOLED POWER DISTRIBUTION TRANSFORMER F	RDSO/PE/TL/0158-2010,REV-0,TYPE-1	MAA LAXMI INDUSTRIES	MLI-TRAN-6KVA-038
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	S INTERNATIONAL	NIL
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTERNATIONAL SWITCHGEAR PVT LTD	NIL
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	IC ELECTRICALS COMPANY PVT.LTD	12/19/0069
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	ABROL ENGG.COMPA NY PVT.LTD.	2020-02-022
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
Group Name COMPARTMENT				
0	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	KAVERI INDUSTRIES	NIL



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF LHB VP PARCEL VAN HIGH CAPACITY COACH				
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME PP SIDE				
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRICAL	NIL
Group Name UNDER FRAME NPP SIDE				
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	S INTERNATION AL	NIL
SSE/EL/QC		AME/WM QC/DY CQM I		