



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	<b>4009</b>	DISPATCH DATE			<b>09.05.2015</b>	
2.	Railway	<b>NFR</b>	Type	<b>LWLRRM</b>	Coach No.	<b>14855</b>	
3.	Booked to	<b>SSE/C&amp;W/GHY</b>					
4.	Tare Weight of Coach	<b>53.4 T</b>					
5.	Carrying Capacity	Seating	<b>NIL</b>	<b>Sleeping</b>	<b>NIL</b>	Luggage	<b>3.9 T</b>
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105	
	v)	Buffer/CBC (Make )	<b>FAIVELEY</b>		<b>Fiba Device</b>	<b>NA</b>	
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>89</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			<b>KBI</b>		
	iii.	CDTS			<b>DARSHAN</b>		
	iv.	SEATS/S&B			<b>RCF</b>		
	v.	BODY SIDE DOOR			<b>JBM</b>		
	vi.	VESTIBULE SLIDING DOOR			<b>KALSI</b>		
	vii.	CREW-GEN & GUARD ROOM DOOR			<b>JBM/JBM</b>		
	viii.	WATER TANKS			<b>SHIVALIK</b>		
	ix	FUEL TANK			<b>GAURAV</b>		
	x	UIC VESTIBULE			<b>ELASTOMER</b>		
	XI	FLOOR BOARD			<b>TAYAL</b>		
	XII	PVC			<b>RESPONSIVE</b>		
10.							
	10.1	Modification / Trail (if any):				<b>NIL</b>	
	10.2	Deviations if any:				<b>NIL</b>	



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12.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			4009	NFR	LWLRRM	14855	11-8-2014			
12.1	<b>Wheel &amp; Axle Details:</b>		<b>LPC-1 PP Side(Guard )</b>				<b>LPC-II NPP Side (Non guard )</b>			
	i.	<b>Bogie No.</b>	146484				146485			
	ii.	<b>Frame No.</b>	FIAT-3295				FIAT-3033			
	iii.	<b>Bolster No.</b>	116-HEI				126-HEI			
	iv.	<b>Axle No.</b>	128780/990		128824/990		125796/473		114508/370	
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.00	916.00	917.00	917.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	231-11600	160-11607	250-10570	316-11605	155-11600	335-10559	104-11600	253-10559
	vii.	<b>R.B. Nos.</b>	36221	36173	36147	36339	36300	36376	36165	36010
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	DN-12-06-284	DN-12-02-335	DN-12-06-271	DN-12-02-354	G-13-4-0599	DN-12-2-212	G-13-4-0617	DN-12-3-173	
ii.	<b>Ht. attest load</b>	506	459	506	459	513	468	512	462	
iii.	<b>Align .deviation</b>	4	2	1	4	17	14	18	11	
12.3	<b>Items traceability:</b>									
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>	
	i.	Primary Outer Spring			L&S-05-12		L&S-05-12		L&S	
	ii.	Primary inner Spring			L&S-05-12		L&S-05-12		L&S	
	iii.	Primary Damper							KONI	
	iv.	Secondary damper							SACHS	
	v.	Lateral Damper							SACHS	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							EMSON	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITA	
12.4	i.	<b>Modification / Trial (if any):</b>			NIL					
	ii.	<b>Deviations (if any):</b>			NIL					

**LPC-4009**



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4033	DISPATCH DATE			<b>14.05.2015</b>
2.	Railway	<b>NFR</b>	Type	<b>LWLRRM</b>	Coach No.	<b>14854</b>
3.	Booked to	<b>SSE/C&amp;W/GHY</b>				
4.	Tare Weight of Coach	<b>53.4 T</b>				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')					
6.1	Leading Dimensions:					
i)	Maximum length over Body	23700+10/-0 mm				
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm			1105	1105
v)	Buffer/CBC (Make )	<b>ESCORTS</b>		<b>Fiba Device</b>	<b>NA</b>	
7.	Air Brake Testing:		Description		Specified	Observed
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00
			All Brake are applied		OK	OK
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>87</b>	
8.2	APPLICATION OF PCN-123		<b>SATISFACTORY</b>			
8.3	INSUALTION		<b>SATISFACTORY</b>			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			<b>KBI</b>		
iii.	CDTS			<b>DARSHAN</b>		
iv.	SEATS/S&B			<b>RCF</b>		
v.	BODY SIDE DOOR			<b>JBM</b>		
vi.	VESTIBULE SLIDING DOOR			<b>KALSI</b>		
vii.	CREW-GEN & GUARD ROOM DOOR			<b>JBM/JBM</b>		
viii.	WATER TANKS			<b>SHIVALIK</b>		
ix	FUEL TANK			<b>GAURAV</b>		
x	UIC VESTIBULE			<b>ELASTOMER</b>		
XI	FLOOR BOARD			<b>TAYAL</b>		
XII	PVC			<b>RESPONSIVE</b>		
10.						
10.1	Modification / Trail (if any):				NIL	
10.2	Deviations if any:				NIL	



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12.	<b>Bogie Details:</b>		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4033		NFR		LWLRRM		14854		16-7-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard )						LPC-II NPP Side (Non guard )			
	i.	Bogie No.	146621						146620			
	ii.	Frame No.	FIAT-3282						FIAT-2997			
	iii.	Bolster No.	3792-GT						3737-P			
	iv.	Axle No.	Z-3271		128232/991		125834/477		Z-3654			
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	916.50	916.00	917.00	916.50		
	vi.	Wheel Disc No.	089-10570	246-11607	017-11600	278-11607	023-11600	147-10568	356-10559	300-11607		
	vii.	R.B. Nos.	36384	35781	36281	36609	35807	35830	36440	36575		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	<b>Secondary suspension load deflection Values:</b>											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	DN-13-4-392	DN-12-2-4309	DN-13-4-341	DN-12-2-266	DN-13-5-1634	DN-13-5-303	DN-13-5-1574	DN-13-5-322			
ii.	Ht. attest load	506	459	509	459	514	467	514	470			
iii.	Align .deviation	4	4	4	4	7	12	7	15			
12.3	<b>Items traceability:</b>											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-05-12		L&S-05-12		L&S			
	ii.	Primary inner Spring			G-5-12		G-5-12		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							SGA			
	x.	Lateral Bump stop							GMT			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							GMT			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
12.4	i.	Modification / Trial (if any):				NIL						
	ii.	Deviations (if any):				NIL						

**LPC-4033**