



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4050	DISPATCH DATE				04.9.2014
2.	Railway	NR	Type	LWACCN	Coach No.		143131
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		45.6 T				
5.	Carrying Capacity	Seating	72	Sleeping	72	Luggage	NIL
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 )		ESCORTS		Fiba Device	NIL	
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>		3.80
			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		PU PAINT		VIBGYOR	86/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
i.	BRAKE EQUIPMENT						KBI
ii.	CDTS/ BIO TOILET						DARSHAN
iii.	SEATS/ BERTHS						SAVITRI
iv.	BODY SIDE DOOR						NA
v.	VESTIBULE SLIDING DOOR						JBM
vi.	SALOON DOOR						NA
vii.	WATER TANKS						AMIT & KUTEER
viii.	UIC VESTIBULE						KRP
ix	FLOOR BOARD & PVC						TAYAL & REPONSIVE
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4050		NR		LWACCN		143131		31-07-2014	
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	146664						146665			
	ii.	<b>Frame No.</b>	FIAT-3345						FIAT-3331			
	iii.	<b>Bolster No.</b>	3929-P						4048-P			
	iv.	<b>Axle No.</b>	Z-3302		116185/377		128274/991		128336/991			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.50	918.00	917.50	917.50		
	vi.	<b>Wheel Disc No.</b>	202-10559	165-11607	213-11607	186-11605	211-11605	292-10598	182-11610	031-11610		
	vii.	<b>R.B. Nos.</b>	36145	35801	35892	35891	36532	36852	36589	36416		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
<b>12.2</b>	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	<b>Make &amp; nos.</b>	G-13-4-819	G-13-4-5123	G-13-4-828	G-13-4-5124	G-13-4-825	G-13-4-4759	G-13-4-823	G-13-4-5031			
ii.	<b>Ht. attest load</b>	512	467	512	467	512	466	513	467			
iii.	<b>Align .deviation</b>	20	24	19	21	21	13	20	12			
<b>12.3</b>	<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-03-13		L&S-03-13		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							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							GMT			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							SARITA			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4030	DISPATCH DATE				05.9.2014
2.	Railway	NR	Type	LWACCN	Coach No.	143130	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	Luggage	NIL
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 )		FAIVELEY		Fiba Device	NIL	
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>	3.80	
			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		PU PAINT		NEROLAC	86/86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					KBI	
ii.	CDTS/ BIO TOILET					AIR FLOW	
iii.	SEATS/ BERTHS					AAR KAY	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					JBM	
vi.	SALOON DOOR					NA	
vii.	WATER TANKS					AMIT & KUTEER	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD & PVC					TAYAL & REPONSIVE	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			4030	NR	LWACCN	143130	10-07-2014			
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	146603				146602			
	ii.	<b>Frame No.</b>	FIAT-3261				FIAT-3207			
	iii.	<b>Bolster No.</b>	3992-VT				4009-VT			
	iv.	<b>Axle No.</b>	127810/987		128542/983		126921/475		125625/377	
	v.	<b>Wheel Dia.</b>	915.00	915.50	915.00	915.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	237-63302	101-60533	090-10559	029-10570	192-11600	330-11605	353/10568	261-11660
	vii.	<b>R.B. Nos.</b>	00053	00151	36003	00197	35760	00108	36162	34558
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING							
<b>12.2</b>	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	<b>Make &amp; nos.</b>	BPS-2013-05	BPS-2013-201	BPS-2013-20	BPS-2013-111	BPS-2013-52	BPS-2013-27	BPS-2013-57	BPS-2013-14	
ii.	<b>Ht. attest load</b>	515	465	512	468	511	468	515	468	
iii.	<b>Align .deviation</b>	4	20	8	6	1	27	3	22	
<b>12.3</b>	<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			BPS-2013		BPS-2013		BPS	
	ii.	Primary inner Spring			BPS-2013		BPS-2013		BPS	
	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							GMT	
	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							SGA	
	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
12.4	i.	Modification / Trial (if any):					NIL			
	ii.	Deviations (if any):					NIL			

LWACCN-4030