



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5033	DISPATCH DATE				03.08.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	153264	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	NA	
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		PU PAINT	APC	85/85		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i	BRAKE EQUIPMENT			FAIVELEY			
ii	SEAT & BERTH			SAVITRI			
iii	BODY SIDE DOORS			JBM			
iv	WATER TANKS			AMIT ,SHIVALIK, E C BLADES			
v	FLOOR BOARD			TAYAL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			SUNCREAST			
viii	VESTIBULE SLIDING DOOR			KALSI			
ix	CDTS			ORIENTAL			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5033	NR	LGS	153264/C	24-06-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156389				156396			
	ii.	Frame No.	ECBT-971				FIAT-3949			
	iii.	Bolster No.	4714-VT				4721-VT			
	iv.	Axle No.	126094/475		A-2932		125752/473		C-4196	
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	915.00	915.00	917.00	917.00
	vi.	Wheel Disc No.	107-10582	245-63309	178-63309	110-63307	016-10583	001-10533	099-63302	221-11611
	vii.	R.B. Nos.	03787	04163	04457	04690	04046	04828	04389	03631
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<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.	Make & nos.	DN-14-03-690	DN-14-02-289	DN-14-03-777	DN-14-02-333	DN-14-03-740	DN-14-02-411	DN-14-03-640	DN-14-02-432	
ii.	Ht. at test load	514	469	515	469	516	468	515	471	
iii.	Align .deviation	7	12	8	13	8	9	9	10	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-3		G-14-3		GF			
	ii.	Primary inner Spring	G-13-11		G-13-11		GF			
	iii.	Primary Damper	1982,1616,1630,2402		2426,2544,2545,2412		GEREP			
	iv.	Secondary damper	1250,1375		1245,1226		GEREP			
	v.	Lateral Damper	2831		2798		KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	E15033/600,D15028/600, E15033/600,D15033/600		C15082/600,C15013/600, C15003/600,D15004/600		FTI			
	viii.	Brake Disc					KBI,FTI			
	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					GMT			
	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			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5039	DISPATCH DATE				19.08.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	153263	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	1100	1102		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
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	PU PAINT	GS	88/89		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	lii	BODY SIDE DOORS		SUKATA			
	lv	WATER TANKS		E C BLADES, MANOJ & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		SUNCREAST			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	IX	CDTS/BIO TOILET		ORIENTAL			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			5039	NR	LGS	153263	28-07-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156392				156397				
		ii. <b>Frame No.</b>	FIAT-4002				FIAT-4049				
		iii. <b>Bolster No.</b>	4653-P				4604-P				
		iv. <b>Axle No.</b>	125740/483		125574/377		A-2898		A-3149		
		v. <b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
		vi. <b>Wheel Disc No.</b>	235-63309	208-63302	086-63307	001-63307	072-11611	165-10582	352-10579	358-63301	
		vii. <b>R.B. Nos.</b>	04440	04016	04327	04550	02556	03857	03928	01554	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</b>	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>
					Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	<b>Make &amp; nos.</b>	DN-14-1-739	DN-14-1-423	DN-14-1-759	DN-14-1-391	DN-13-11-302	DN-14-11-481	DN-13-11-305	DN-13-11-233	
ii.	ii.	<b>Ht. at test load</b>	516	468	515	471	516	467	516	470	
iii.	iii.	<b>Align .deviation</b>	7	5	8	6	6	8	7	11	
11.3	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			G-14-3		G-14-3		GF	
		ii.	Primary inner Spring			G-14-3		G-14-3		GF	
		iii.	Primary Damper			1126,1256,1252,1263		1231,724,1221,779		GEREP	
		iv.	Secondary damper			907,1019		1062,NIL		GEREP	
		v.	Lateral Damper			L-3237		L-3150		KONI	
		vi.	Yaw Damper							NIL	
		vii.	Brake cylinder & Caliper			F15054/600,F15041/600, F15031/600,F15051/600		F15023/600,F15047/600, F15041/600,F15048/600		FTI	
		viii.	Brake Disc							KBI,FTI	
		ix.	Ball joint Control arm							MGN	
		x.	Lateral Bump stop							GMT	
		xi.	Traction center make							EMSON, SARITA	
		xii.	Traction lever make							SARITA	
		xiii.	Ball joint traction lever							MGN	
		xiv.	Traction centre elastic							GMT,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	
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
		ii.	<b>Deviations (if any):</b>				NIL				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5018	DISPATCH DATE				08.08.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	153265	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	NA		
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	PU PAINT	APEX	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT		KBI			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		SUKATA			
	iv	WATER TANKS		E C BLADES, SHIVALIK, MANOJ			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		FRIKMART			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	ix	CDTS		NA			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5018	NR	LSCN	153265/C	28-07-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156462				156463			
	ii.	Frame No.	FIAT-4020				FIAT-4081			
	iii.	Bolster No.	4840/VT				4766-P			
	iv.	Axle No.	128567/989	126606/489	126500/481	126220/471				
	v.	Wheel Dia.	915.00	915.00	917.00	917.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	220-50846	001-63305	182-50846	103-63307	142-63305	277-63309	302-10568	126-50842
	vii.	R.B. Nos.	02333	02418	01982	02745	02714	01966	01293	02221
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<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.	Make & nos.	DN-14-06-796	DN-14-05-608	DN-14-11-1072	DN-14-05-612	DN-14-06-832	DN-14-05-609	DN-14-11-1051	DN-14-05-611	
ii.	Ht. at test load	510	471	512	471	511	468	513	468	
iii.	Align .deviation	14	14	15	14	13	13	10	9	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-3		G-14-3		GF			
	ii.	Primary inner Spring	G-14-3		G-14-3		GF			
	iii.	Primary Damper	606,1112,1267,1102		1216,437,1248,1260		GEREP			
	iv.	Secondary damper	940,915		925,945		GEREP			
	v.	Lateral Damper	3088		3196		KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	1045/691,1119/691,1044/691,1120/691		1059/691,1105/691,1056/691,1106/691		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					MGN			
	xiv.	Traction centre elastic					MGN			
	xv.	Secondary rubber pad					TESPAK			
	xvi.	Rubber spring					WILILANE			
	xvii.	Anti roll bar make					EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					SARITA			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5036	DISPATCH DATE				08.08.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	153266	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	NA		
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	PU PAINT	APC	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		SUKATA			
	iv	WATER TANKS		E C BLADES, SHIVALIK, AMIT			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		SUNCREAST			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	ix	BIO TOILET		ORIENTAL			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			5036	NR	LGS	153266/C	29-07-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156391				156394				
		ii. <b>Frame No.</b>	FIAT-4037				FIAT-3997				
		iii. <b>Bolster No.</b>	4782-P				4702-VT				
		iv. <b>Axle No.</b>	128679/989		127024/476		125833/471		C-0053		
		v. <b>Wheel Dia.</b>	916.00	916.00	916.00	915.50	916.00	916.00	915.00	915.00	
		vi. <b>Wheel Disc No.</b>	351-11610	225-11605	042-63301	134-63305	287-10582	143-63305	032-63301	046-63307	
		vii. <b>R.B. Nos.</b>	04052	03900	04241	03881	04833	04757	04807	04321	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</b>	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>
					Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	<b>Make &amp; nos.</b>	Dn-14-01-151	Dn-14-01-334	Dn-14-01-755	Dn-14-01-450	Dn-14-03-657	Dn-14-02-452	Dn-14-03-719	Dn-14-02-282	
ii.	ii.	<b>Ht. at test load</b>	516	469	516	472	516	468	515	470	
iii.	iii.	<b>Align .deviation</b>	11	7	14	9	10	7	12	11	
11.3	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			G-14-3		G-14-3		GF	
		ii.	Primary inner Spring			G-14-3		G-14-3		GF	
		iii.	Primary Damper			727,752,1236,1214		414,1107,770,1247		GEREP	
		iv.	Secondary damper			904,1060		1225,1232		GEREP	
		v.	Lateral Damper			3113		3103		KONI	
		vi.	Yaw Damper							NIL	
		vii.	Brake cylinder & Caliper			15075/600,15119/600 15077/600,15112/600		15066/600,15094/600, 15065/600,15087/600		FTI	
		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							MGN	
		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	
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
		ii.	<b>Deviations (if any):</b>				NIL				