



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4040	DISPATCH DATE				19.06.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.	14856	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	VIBGYOR	90		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	iii.	CDTS	VIBHU				
	iv.	SEATS/S&B	GANDHI				
	v.	BODY SIDE DOOR	JBM				
	vi.	VESTIBULE SLIDING DOOR	KALI				
	vii.	CREW-GEN & GUARD ROOM DOOR	CONCEPT/JBM				
	viii.	WATER TANKS	E C BLADES & SHIVALIK				
	ix	FUEL TANK	OMAX				
	x	UIC VESTIBULE	ELASTOMER				
	XI	FLOOR BOARD	TAYAL				
	XII	PVC	RESPONSIVE				
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			
			4040	SCR	LWLRRM	14856	23-04-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )				LPC-II NPP Side (Non guard )			
	i.	Bogie No.	156320				156315			
	ii.	Frame No.	NKH-3866				SCI-FM-128			
	iii.	Bolster No.	4716-VT				4528-GT			
	iv.	Axle No.	129674/986		127005/476		113459/037		C-4670	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	918.00	917.50
	vi.	Wheel Disc No.	013-11611	131-10570	203-10559	126-10570	183-10579	255-10533	053-10583	283-10533
	vii.	R.B. Nos.	02749	03367	02477	02757	01844	02463	03064	03232
	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.	G-10-12-233	G-10-12-204	G-10-12-236	G-10-12-130	CMFSK-15-03-41	G-12-09-43	CMFSK-15-03--	G-12-09-213	
ii.	Ht. attest load	510	467	510	467	511	469	512	470	
iii.	Align .deviation	5	4	6	7	6	7	7	12	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	YR-13-11		YR-13-11		YR			
	ii.	Primary inner Spring	CMFSK-14-05		CMFSK-14-05		CMFSK			
	iii.	Primary Damper	829,804,689,847		157,845,168,188		GEREP			
	iv.	Secondary damper	852,882		135,890		GEREP			
	v.	Lateral Damper	2014		2766		KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	141797/2000,141838/2000 141793/2000,141841/2000		141802/2000,141815/2000 141794/2000,141804/2000		FTI			
	viii.	Brake Disc					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,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					EMSON,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.	5001	DISPATCH DATE				25.06.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.		14857
3.	Booked to			SSE/C&W/BZA			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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		1104	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		VIBGYOR	90	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	CDTS				VIBHU	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				CONCEPT/JBM	
	viii.	WATER TANKS				E C BLADES & SHIVALIK	
	ix	FUEL TANK				GAURAV	
	x	UIC VESTIBULE				KRP	
	XI	FLOOR BOARD				TAYAL	
	XII	PVC				RESPONSIVE	
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			
			5001	SCR	LWLRRM	14857	13-03-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )				LPC-II NPP Side (Non guard )			
	i.	Bogie No.	156205				156204			
	ii.	Frame No.	FM-118				FIAT-3721			
	iii.	Bolster No.	3944-VT				4584-PT			
	iv.	Axle No.	A-2945		A-3173		Z-3403		C-4199	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	050-10559	214-63301	032-10568	043-10582	035-10582	094-10533	132-63307	027-11600
	vii.	R.B. Nos.	30551	31055	30167	02216	36485	35838	36334	36484
	viii.	R.B. Make	SKF		SKF		TIM		TIM	
	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.	BPS-2013-01	BPS-2013-12	BPS-2013-06	BPS-2013-26	FSK-15-01-28	BPS-2013-NIL	FSK-15-1-14	BPS-2013-NIL	
ii.	Ht. attest load	508	468	508	465	515	468	515	468	
iii.	Align .deviation	3	3.5	5	8	8	30	5	24	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			BPS-2013		BPS-2013		BPS	
	ii.	Primary inner Spring			GBD-14-5		GBD-14-5		GBD	
	iii.	Primary Damper			23025,22568,23026,22854		23260,23274,24040,23259		KONI	
	iv.	Secondary damper			228,338		280,247		GEREP	
	v.	Lateral Damper			215		527		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			141713/2000,141824/2000 141720/2000,141836/2000		141789/2000,141738/2000 141169/2000,141816/2000		FTI	
	viii.	Brake Disc							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							SGA	
	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							EMSON	
	xviii.	Ball joint roll link							SRITA,GMT	
	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.	5006	DISPATCH DATE				25.06.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.	14858	
3.	Booked to	SSE/C&W/BZA					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	VIBGYOR	87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	CDTS			SIL		
	iv.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JBM		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			CP/JBM		
	viii.	WATER TANKS			E C BLADES & SHIVALIK		
	ix	FUEL TANK			GAURAV		
	x	UIC VESTIBULE			SUNCOAST		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			RESPONSIVE/PREMIER POLYFILM		
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	
			5006		SCR		LWLRRM		14858		29-11-2014	
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )					LPC-II NPP Side (Non guard )				
	i.	Bogie No.	146990					146989				
	ii.	Frame No.	FIAT-3561					FIAT-3588				
	iii.	Bolster No.	4400VT					4371VT				
	iv.	Axle No.	128486/983		106359/629		126678/632		126435/632			
	v.	Wheel Dia.	915.00	915.00	915.50	915.50	915.00	915.00	915.00	915.00		
	vi.	Wheel Disc No.	290-63305	114-61077	147-51915	038-51915	080-51908	316-11607	182-51915	124-51910		
	vii.	R.B. Nos.	36758	36755	01400	02425	36926	27492	37721	36750		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	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.	G12-9-225	G12-6-185	G12-9-220	G12-6-114	CMGBD-38-836	G12-6-184	CMGBD-38-836	G12-6-192			
ii.	Ht. attest load	509	467	509	467	515	470	515	470			
iii.	Align .deviation	6	15	4	13	8	13	7	16			
11.3	<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-12-5		L&S-12-5		L&S			
	ii.	Primary inner Spring			L&S-13-2		L&S-13-2		L&S			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							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							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							EMSON			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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