



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7014	DISPATCH DATE				12.07.2017
2.	Railway	ECR	Type	LWFAC	Coach No.	17003	
3.	Booked to		SSE/C&W/DNR				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	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 )	SANROK	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>	3.00		
			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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	ii.	CDTS/ BIO TOILET	M K PRECISION, JSL				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	RAIL FAB, SHIVALIK				
	viii.	UIC VESTIBULE	ESCORTS				
	ix	FLOOR BOARD	NARBADA				
	x	PVC FLOORING	RESPONSIVE				
10.							
	i	Modification / Trail (if any):				NIL	
	ii	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7014	ECR	LWFAC	17003	03-04-2017			
11.1	<b>Wheel &amp; Axle Details:</b>									
	i.	Bogie No.	176303			176304				
	ii.	Frame No.	SCI/FM-805			SCI/FM-807				
	iii.	Bolster No.	6827-P			6821-P				
	iv.	Axle No.	W-2938		S-9835		S-3062		V-1739	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	916.00	916.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00020/7 279	00131/7 277	00116/61 79	00041/6 136	00120/6 179	00020/6 179	00115/13 352	00101/1 3352
	viii.	R.B. Nos.	77324	98231	97201	76102	79952	77323	79027	77464
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		<b>Lateral Damper Side</b>		<b>Non Lat. Damper side</b>		<b>Lateral Damper Side</b>		<b>Non Lat. Damper side</b>		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	<b>Make &amp; nos.</b>	RSK-16-6-442	GBD-16-10-311	RSK-16-6-823	GBD-16-10-270	RSK-16-6-759	GBD-16-10-272	RSK-16-6-697	GBD-16-10-269	
ii.	Ht. at test load	508	468	509	466	511	468	511	468	
iii.	Align .deviation	10	9	11	11	9	7	10	7	
11.3	<b>Items traceability:</b>									
	<b>Sno.</b>	<b>Item</b>						<b>Make</b>		
	i.	Primary Outer Spring			GBD-16-12		GBD-16-12		GBD	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			34168,34145,34107,34133		33663,34199,34127,34150		KONI	
	iv.	Secondary damper			0721,0593		0732,0657		SV	
	v.	Lateral Damper			0150		0103		SV	
	vi.	Brake cylinder & Caliper							-----	
	vii.	Brake Disc							KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							RNG	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

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Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7007	DISPATCH DATE				12.07.2017	
2.	Railway	ECR	Type	LWFAK	Coach No.	17002		
3.	Booked to		SSE/C&W/DNR					
4.	Tare Weight of Coach		43.6 T					
5.	Carrying Capacity	Seating	24	Sleeping	24	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	1097		
v)	Buffer/CBC (Make )		SANROK		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>		3.00	
			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	86/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY					
8.3	INSUALTION		SATISFACTORY					
9.	Traceability of Furnishing Items:						Make	
i.	BRAKE EQUIPMENT						FAIVELEY	
ii.	CDTS/ BIO TOILET						RAIL TECH	
iii.	SEATS/ BERTHS						AAR KAY FOAMS	
iv.	BODY SIDE DOOR						JBM	
v.	VESTIBULE SLIDING DOOR						HP	
vi.	SALOON DOOR						KALSI	
vii.	WATER TANKS						RAIL FAB, SHIVALIK	
viii.	UIC VESTIBULE						ESCORTS	
ix	FLOOR BOARD						NARBADA	
x	PVC FLOORING						RESPONSIVE	
10.								
i	Modification / Trail (if any):							NIL
ii	Deviations if any:							NIL



**रेल डिब्बा कारखाना**  
**RAIL COACH FACTORY, KAPURTHALA**

Bogie Pair ID: 176460461

11.	<b>Bogie Details:</b>	Shell No.	Railway		Type	Coach No.	Dispatch Date			
					LWSCE					
11.1	<b>Wheel &amp; Axle Details:</b>									
i.	Bogie No.	176460				176461				
ii.	Frame No.	FIAT-5693				FIAT-5540				
iii.	Bolster No.	GT-6959				F-6983				
iv.	Axle No.	V-1481		W-3125		R-2359		R-3408		
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.50	917.00	
vii.	Wheel Disc No.	00131-6219	00148-6189	00149-6132	00112-6107	00043-6226	00039-6226	00022-16	00031-66	
viii.	RB Nos.	01694	09139	01169	01808	08939	08934	03738	02404	
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
x.	RB Type	JIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
Description		Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & Nos.	FSK-17-02-027	GBD-16-12-169	FSK-17-02-02	GBD-16-12-126	FSK-17-02-84	GBD-16-12-153	FSK-17-02-29	GBD-16-12-077	
ii.	Ht. at lest load	511.00	468.00	510.00	468.00	512.00	466.00	511.50	468.00	
iii.	Align. deviation	9.00	9.00	10.00	10.00	11.00	6.00	12.00	7.00	
<b>Items traceability:</b>										
11.3	Sno.	Item					Make			
	i.	Primary Outer Spring	FSK-17-03		FSK-17-03		FSK			
	ii.	Primary inner Spring	GF-12-06		GF-12-06		GF			
	iii.	Primary Damper	36835, 37270, 37440, 36803		37480, 36971, 37121, 37352		MONI			
	iv.	Secondary Damper	0115, 0112		0113, 0111		GABRIEL			
	v.	Lateral Damper	0220		0392		SV			
	vi.	Break cylinder & Caliper	16207,16071, 16221,16070		16171,16205, 16169,16207		FTI			
	vii.	Break Disc					FTI		KBI	
	viii.	Control arm top					KUMAR			
	ix.	Control arm bottom					KUMAR			
	x.	Top rubber Pad					SCA			
	xi.	Vertical Bump Stop					GMT			
	xii.	Ball Joint Control arm					MGN			
	xiii.	Lateral Bump stop					MGN			
	xiv.	Traction center make					EMSON			
	xv.	Traction lever make					SARITA		AFW	
	xvi.	Ball joint traction lever					MGN			
	xvii.	Traction center elastic					GMT			
	xviii.	Secondary rubber pad					TECSPAK			
	xix.	Rubber spring					FRAG			
	xx.	Anti roll bar make					SARITA			
	xxi.	Ball joint roll link					SARITA			
	xxii.	FORK make					SARITA			
11.4	i.	Modification/Trail (if any):	NIL							
	ii.	Deviations (if any):	NIL							

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Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7005	DISPATCH DATE				12.07.2017
2.	Railway	ECR	Type	LWFAC	Coach No.	17001	
3.	Booked to		SSE/C&W/DNR				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	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		1104	1095	
v)	Buffer/CBC (Make )		SANROK		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>	3.00	
			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	86/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
ii.	CDTS/ BIO TOILET				RAIL TECH		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JBM		
v.	VESTIBULE SLIDING DOOR				HANSPAL		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				RAIL FAB, SHIVALIK		
viii.	UIC VESTIBULE				SSIPL		
ix	FLOOR BOARD				NARBADA		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):		NIL				
ii	Deviations if any:		NIL				



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7005	ECR	LFCAC	17001	19-09-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166827				166826			
	ii.	Frame No.	FIAT-5153				FIAT-5160			
	iii.	Bolster No.	6179-GT				6167-GT			
	iv.	Axle No.	R-3226		K-6012		K-3849		N-6247	
	v.	Wheel Dia.	916.00	916.00	916.50	917.00	918.00	917.50	916.50	916.00
	vi.	Wheel Disc No.	06176-6QK6	04305-6QJ7	05871-6QL9	05820-6QL9	04307-6QJ9	00048-6QH5	13353-00084	05116-0058
	vii.	R.B. Nos.	02492	02038	01957	02146	01798	02518	01238	02257
	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.	RSK-16-7-1008	GBD-16-6-18	RSK-16-7-1006	GBD-16-6-171	RSK-16-7-41	GBD-16-6-74	RSK-16-7-691	GBD-16-6-43	
ii.	Ht. at test load	511	467	512	468	510	467	511	466	
iii.	Align .deviation	12	6	12	6	7	9	7	10	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-11		RSK-15-11		RSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			3215,3386,3238,2965		3242,3244,3248,3292		KNORR	
	iv.	Secondary damper			0417,0432		0389,0408		SV	
	v.	Lateral Damper			0371		0118		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							-----	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	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							TECSPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				