



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4024	DISPATCH DATE			20.8.2014	
2.	Railway	SW	Type	LWACCN	Coach No.	14132	
3.	Booked to	SSE/C&W/SBC					
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	1104			
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 ²	6 –10 sec	6 Sec			
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.80			
		All Brake are applied	OK	OK			
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK			
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK			
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	NEROLAC	48/49			
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				AIKON		
iii.	SEATS/ BERTHS				SAVITRI		
iv.	BODY SIDE DOOR				SUKATA		
v.	VESTIBULE SLIDING DOOR				JBM		
vi.	SALOON DOOR				NA		
vii.	WATER TANKS				AMIT , & KUTEER		
viii.	UIC VESTIBULE				KRP		
ix	FLOOR BOARD				NARMADA		
X	PVC				RESPONSIVE		
xi	LP SHEET				KAE		
10							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4024		SWR		LWACCN		14132		24-06-2014	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146534					146535				
	ii.	Frame No.	FIAT-3186					FIAT-3169				
	iii.	Bolster No.	3861-P					3894-P				
	iv.	Axle No.	127056/476		Z-3393			Z-3415		Z-3515		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.50	915.50	916.00	916.00		
	vi.	Wheel Disc No.	184-10533	107-61077	360-10533	302-10579	112-10583	273-63301	342-10579	201-10533		
	vii.	R.B. Nos.	34293	00032	34439	00159	00288	34163	00075	34569		
	viii.	R.B. Make	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	Secondary suspension load deflection Values:											
Description		Secondary 1			Secondary 2			Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G13-3-0646	G13-3-4387	G13-3-403	G13-3-4272	G13-3-0694	G13-3-4238	G13-3-0632	G13-3-4313			
ii.	Ht. attest load	512	467	512	467	512	467	513	465			
iii.	Align .deviation	14	8	16	9	14	14	17	14			
12.3	Items traceability:											
	S no.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G12-8			G12-8			GF	
	ii.	Primary inner Spring			G12-5			G12-5			GF	
	iii.	Primary Damper									KONI	
	iv.	Secondary damper									GEREP	
	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									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							



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4031	DISPATCH DATE			04.9.2014
2.	Railway	SW	Type	LWACCN	Coach No.	14134
3.	Booked to	SSE/C&W/SBC				
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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.80	
			All Brake are applied	OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /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	AIR FLOW			
	iii.	SEATS/ BERTHS	AAR KAY			
	iv.	BODY SIDE DOOR	JBM			
	v.	VESTIBULE SLIDING DOOR	KALSI			
	vi.	SALOON DOOR	NA			
	vii.	WATER TANKS	AMIT, SHIVALIK & 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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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4031		SWR		LWACCN		14134		31-07-2014	
12.1	Wheel & Axle Details:		PP Side				NPP Side					
	i.	Bogie No.	146662				146663					
	ii.	Frame No.	FIAT-3267				FIAT-3278					
	iii.	Bolster No.	3979-P				4059-VT					
	iv.	Axle No.	RWF-108916		128342/991		Z-3463		128408/983			
	v.	Wheel Dia.	917.50	917.50	917.50	917.50	917.50	917.00	917.00	917.00		
	vi.	Wheel Disc No.	095-11600	047-11610	116-11610	166-11600	062-62312	037-11605	333-11610	056-11607		
	vii.	R.B. Nos.	36319	36466	36120	36449	35878	36401	36265	36525		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-13-4-729	G-13-4-5082	G-13-4-786	G-13-4-4957	G-13-4-750	G-13-4-5087	G-13-4-840	G-13-4-4766			
ii.	Ht. attest load	514	464	513	465	511	466	511	466			
iii.	Align .deviation	19	14	21	13	21	17	19	15			
12.3	Items traceability:											
		Sno.	Item		PP Side Bogie		NPP side Bogie		Make			
		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						FTI			
		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.	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.	4041	DISPATCH DATE				05.9.2014
2.	Railway	SW	Type	LWACCN	Coach No.	14135	
3.	Booked to	SSE/C&W/SBC					
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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.80		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	NEROLAC	89/90		
	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	AIKON				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	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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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4041		SWR		LWACCN		14135		02-07-2014	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146570					146571				
	ii.	Frame No.	FIAT-3192					FIAT-2959				
	iii.	Bolster No.	3750-VT					3919-P				
	iv.	Axle No.	128271/991		126484/481		128111/984		128104/984			
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.50	916.50	916.00		
	vi.	Wheel Disc No.	108-10585	022-10582	085-63309	246-10583	139-11611	284-63305	218-63307	044-63309		
	vii.	R.B. Nos.	34158	04946	00002	00257	34234	34285	00270	34491		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	Secondary suspension load deflection Values:											
Description		Secondary 1			Secondary 2			Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-13-3-0673	G-13-3-4667	G-13-3-0661	G-13-3-4330	G-13-3-0674	G-13-3-4442	G-13-3-0669	G-13-3-0663			
ii.	Ht. attest load	511	465	513	465	513	465	512	467			
iii.	Align .deviation	21	12	22	13	16	13	20	13			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring			G-12-8			G-12-8		GF		
	ii.	Primary inner Spring			G-12-5			G-12-5		GF		
	iii.	Primary Damper								SACHS		
	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								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							

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4026	DISPATCH DATE				05.9.2014
2.	Railway	SW	Type	LWACCN	Coach No.	14133	
3.	Booked to	SSE/C&W/SBC					
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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.80		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	89/89		
	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	AIR FLOW				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	AMIT & KUTEER				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD & PVC	TAYAL & REPOSIVE				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4026		SWR		LWACCN		14133		09-07-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146174						146177			
	ii.	Frame No.	FIAT-2683						FMC-15			
	iii.	Bolster No.	3619-GT						3675-VT			
	iv.	Axle No.	125578/377		126397/474		126745/468		126681/468			
	v.	Wheel Dia.	916.00	915.50	915.00	915.00	915.50	915.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	167-10583	342-10568	327-10568	311-10568	207-10583	177-10579	013-10568	121-10533	10568	10533
	vii.	R.B. Nos.	36085	35972	35813	36240	35994	00070	34177	36149	36149	
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-13-4-749	G-13-4-4772	G-13-4-771	G-13-4-4741	G-13-4-0586	G-13-4-1721	G-13-4-	G-13-4-	G-13-4-	G-13-4-	
ii.	Ht. attest load	514	466	514	466	512	467	513	467	513	467	
iii.	Align .deviation	21	13	20	13	18	6	20	6	20	6	
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-12-8		G-12-18		GF			
	ii.	Primary inner Spring			G-12-5		G-12-5		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MTC			
	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					

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