



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4002	DISPATCH DATE			3.7.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143116	
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	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	3.00			
		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	86			
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		AMIT				
iii.	SEATS/ BERTHS		AAR KAY				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		JBM				
vi.	SALOON DOOR / COMPTT.DOOR		SUKATA				
vii.	WATER TANKS		AMIT & MANOJ				
viii.	UIC VESTIBULE		KRP				
ix	FLOOR BOARD		TAYAL				
x	PVC FLOORING		RESPONSIVE				
10.	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
10.2	Deviations if any:					NIL	



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Date: 22-02--2014

Shell No.:-4002

RLY	NR	Type	LWACCN	Coach No.	143116
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6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146112				146129			
Frame No.	FIAT-2775				FIAT-2906			
Bolster No.	3565-P				061-HEI			
Axle No.	RWF-109200		RWF-109088		RWF-108914		RWF-109966	
Wheel Diameter	916.50	917.00	916.50	916.00	918.00	918.00	916.00	916.50
Wheel Disc No.	171-51916	255-51781	314-50854	306-50857	324-48744	311-50842	035-50854	062-51908
R.B. Nos.	03346	03412	03477	03613	03666	03807	05328	06597
R. B. Make	TIM		TIM		TIM		TIM	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.1 Secondary suspension load deflection Values:

Description	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & nos.	G13-04-0699	G13-04-4490	G13-04-0610	G13-04-4677	G13-03-0641	G13-3-4719	G13-3-0701	G13-3-4726
Ht. Attest Load	514	467	512	465	513	466	512	468
Align. deviation	15	8	15	4	18	13	16	11

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-02-13	L&S-02-13	L&S
2	Primary inner Spring batch no	G-05-12	G-05-12	GF
3	Primary Damper			SV
4	Secondary damper			SACHS
5	Lateral Damper			SACHS
6	Brake cylinder & Caliper	N-13199/600,N-13200/600, N-13019/600,N-13200/600	A-14029/600,A-14018/600, A-14016/600,A-14026/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			SGA
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			GMT
13	Ball joint Traction centre			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWACCN-4002



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4019	DISPATCH DATE				16.7.2014
2.	Railway	NR	Type	LWACCN	Coach No.	143115	
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 ²	6 –10 sec	6 Sec			
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00			
		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		GS	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					JBM	
vi.	SALOON DOOR / COMPTT.DOOR					SUKATA	
vii.	WATER TANKS					SHIVALIK, AMIT & E C BLADE	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					TAYAL	
x	PVC FLOORING					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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Date: 19-02-2014

Shell No.:- 4019

RLY	NR	Type	LWACCN	Coach No.	143115
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6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146091				146113			
Frame No.	ECBT-587				FIAT-2908			
Bolster No.	3498VT				3458VT			
Axle No.	T-1971		T-2318		S-6524		H-3031	
Wheel Diameter	916.50	916.00	916.50	916.50	918.00	918.00	918.00	918.00
Wheel Disc No.	042-51908	138-51912	138-50846	090-50846	384-51781	354-50842	171-48028	291-46433
R.B. Nos.	25559	25695	03079	02413	03425	02417	03568	05454
R. B. Make	TIM		TIM		TIM		TIM	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.1 Secondary suspension load deflection Values:

Description	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & nos.	DN13-11-1680	G12-4-5215	DN13-11-169	G12-4-5255	G13-04-0652	G13-04-4564	DN-13-04-0708	G13-04-4298
Ht. Attest Load	510	463	510	463	513	467	514	468
Align. deviation	7	15	4	16	17	18	14	14

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	L&S-03-13	L&S-02-13	L&S
2	Primary inner Spring batch no	G-05-12	G-05-12	GF
3	Primary Damper			SV
4	Secondary damper			GEREP
5	Lateral Damper			GEREP
6	Brake cylinder & Caliper	12175/600,12181/600 12180/600,12180/600	N13200/600,N13181/600 N13196/600,N13156/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			SGA
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			GMT
13	Ball joint Traction centre			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWACCN-4019



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4021	DISPATCH DATE			16.7.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143117	
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 ²	6 –10 sec	6 Sec			
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00			
		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			86		
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					AIKON	
iii.	SEATS/ BERTHS					SAVITRI	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					JBM	
vi.	SALOON DOOR / COMPTT.DOOR					SUKATA	
vii.	WATER TANKS					AMIT	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					NARBADA	
x	PVC FLOORING					RESPONSIVE	

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			
		4021	NR	LWACCN	143117	19-06-2014			
12.1	Wheel & Axle Details:	PP Side				NPP Side			
	i. Bogie No.	146466				146467			
	ii. Frame No.	FIAT-3149				FIAT-3097			
	iii. Bolster No.	3687-VT				3818-P			
	iv. Axle No.	Z-3879		Z-3702		Z-3705		Z-3503	
	v. Wheel Dia.	915.50	915.50	915.00	915.00	915.50	915.50	915.00	915.00
	vi. Wheel Disc No.	142-10570	322-10559	221-63301	326-10533	001-63301	274-10583	209-10583	108-10559
	vii. R.B. Nos.	00349	00308	34226	34457	00259	00181	34170	34560
	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.	BPS-2013-72	BPS-2013-290	BPS-2013-81	BPS-2013-227	BPS-2013-70	BPS-2013-246	BPS-2013-90	BPS-2013-241
ii.	Ht. attest load	511	463	515	465	514	463	515	463
iii.	Align .deviation	5	30	5	28	6	28	2	30
12.3	Items traceability:								
	S no.	Item	PP Side Bogie		NPP side Bogie		Make		
	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					GEREP		
	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					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		
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.	3154	DISPATCH DATE			1.7.2014	
2.	Railway	NR	Type	LWACCN	Coach No.	143114	
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 ²	Max Pressure in BC	6 –10 sec	6 Sec		
		All Brake are applied		3.00 ± 0.15 Kg/cm ²	3.00		
				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	87/89			
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					RAIL FAB	
iii.	SEATS/ BERTHS					SAVITRI	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					JBM	
vi.	SALOON DOOR / COMPTT.DOOR					SUKATA	
vii.	WATER TANKS					AMIT & SHIVALIK	
viii.	UIC VESTIBULE					KRP	
ix	FLOOR BOARD					TAYAL	
x	PVC FLOORING					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
10.2	Deviations if any:					NIL	



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Shell No.:- 3154

Date: 15-03--2014

RLY	NR	Type	LWACCN	Coach No.	143114
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6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146171				146172			
Frame No.	FIAT-2953				FIAT-2770			
Bolster No.	3002-VT				3472-VT			
Axle No.	RWF-110058		S-6541		S-6365		S-6346	
Wheel Diameter	918.00	918.00	917.50	918.00	918.00	918.00	918.00	918.00
Wheel Disc No.	066-50777	140-50842	018-51781	024-51781	314-50861	012-48744	118-48744	027-48744
R.B. Nos.	03333	03312	03411	06726	06548	05467	04565	03519
R. B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.1 Secondary suspension load deflection Values:

Description	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & nos.	G-13-4-0614	G-13-4-4665	G-13-4-0713	G-13-4-4337	G-13-5-788	G-13-5-4606	G-13-5-776	G-13-5-4979
Ht. Attest Load	513	464	512	467	513	466	514	467
Align. deviation	21	12	21	12	21	11	21	12

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	G-13-3	G-13-3	GF
2	Primary inner Spring batch no	G-12-5	G-12-5	GF
3	Primary Damper			SV
4	Secondary damper			SACHS
5	Lateral Damper			KONI
6	Brake cylinder & Caliper	14223/600,14237/600, 14222/600,14238/600	14228/600,14223/600, 14213/600,14226/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			MGN
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			SGA
13	Ball joint Traction centre			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			EMSON
17	Roll link make			SARITA
18	Fork make			EMSON

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