



# रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

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## ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4028	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143161
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	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	VIBGYOR	89/88	
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.	SEAT & BERTH			SUTLEJ		
v.	BODY SIDE DOORS			JBM, SUKATA		
vi.	SALOON COMPTT DOORS			HANSPAL		
vii.	VESTIBULE SLIDING DOOR			KALSI		
viii.	WATER TANKS			AMIT, SHIVALIK		
ix	UIC VESTIBULE			KRP		
x	LUGGAGE RACK			SIVALIK		
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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12.	<b>Bogie Details:</b>		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4028		NR		LWSCZAC		143161		26-08-2014	
12.1	<b>Wheel &amp; Axle Details:</b>		PP Side						NPP Side			
	i.	Bogie No.	146734						146733			
	ii.	Frame No.	FIAT-3387						FIAT-3409			
	iii.	Bolster No.	4106-VT						4083-VT			
	iv.	Axle No.	RWF-109415			RWF-109721			RWF-109777		RWF-109792	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	205-10568	066-11605	182-11600	163-11600	150-10559	123-10559	342-11605	001-10568		
	vii.	R.B. Nos.	00304	34323	34443	34327	00149	00517	34466	00540		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	<b>Secondary suspension load deflection Values:</b>											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	G-12-4-1073	G-12-4-1764	G-12-4-972	G-12-4-2057	G-12-4-1068	G-12-4-1778	G-12-4-1025	G-12-4-2064			
ii.	Ht. attest load	510	468	509	466	510	468	510	466			
iii.	Align .deviation	5	22	6	24	3	22	2	19			
12.3	<b>Items traceability:</b>											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-10-12		G-10-12		GF			
	ii.	Primary inner Spring			G-5-12		G-5-12		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							GMT			
	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							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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1.	SHELL No.	4038	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143160
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	VIBGYOR	89/89	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	CDTS			AIKON	
	iv.	SEAT & BERTH			SUTLEJ	
	v.	BODY SIDE DOORS			JBM	
	vi.	SALOON COMPTT DOORS			AIR FLOW	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			SHIVALIK, KUTEER	
	ix	UIC VESTIBULE			COMCEN	
	x	LUGGAGE RACK			RAIL TECH	
	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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12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4038		NR		LWSCZAC		143160		19-09-2014	
12.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	146801					146802				
	ii.	<b>Frame No.</b>	FIAT-3441					FIAT-3257				
	iii.	<b>Bolster No.</b>	4189-GT					4014-VT				
	iv.	<b>Axle No.</b>	129327/982		128216/984		128480/983		129302/982			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.00	916.50	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	174-63302	163-10570	003-11603	197-11596	332-11602	253-11603	202-11603	112-11603		
	vii.	<b>R.B. Nos.</b>	01175	00835	00960	00867	01288	00804	01316	01106		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	G-12-4-967	G-12-4-1888	G-12-4-1056	G-12-4-1871	G-12-4-987	G-12-4-1709	G-12-4-975	G-12-4-1730			
ii.	<b>Ht. attest load</b>	509	467	508	466	512	466	511	468			
iii.	<b>Align .deviation</b>	7	17	4	16	10	15	7	14			
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-03-13		G-03-13		GF			
	ii.	Primary inner Spring			G-05-12		G-05-12		GF			
	iii.	Primary Damper							SACHS			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							GMT			
	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.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

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1.	SHELL No.	4029	DISPATCH DATE			18.11.2014	
2.	Railway	NR	Type	LWSCZAC	Coach No.	143157	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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		VIBGYOR	88/88		
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				AIR FLOW		
iv.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				JBM		
vi.	SALOON COMPTT DOORS				AIR FLOW		
vii.	VESTIBULE SLIDING DOOR				KALSI		
viii.	WATER TANKS				SHIVALIK, KUTEER		
ix	UIC VESTIBULE				COMCEN		
x	LUGGAGE RACK				--		
XI	FLOOR BOARD				NARBADA		
XII	PVC				RESPONSIVE		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4029		NR		LWSCZAC		143157		27-08-2014	
12.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	146737						146738			
	ii.	<b>Frame No.</b>	FIAT-3400						FIAT-3403			
	iii.	<b>Bolster No.</b>	4067-VT						3641-GT			
	iv.	<b>Axle No.</b>	RWF-110090			W-3925			RWF-110560		T-4559	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	183-11610	042-11605	306-10579	072-10523	171-10568	212-11600	313-10568	369-63309		
	vii.	<b>R.B. Nos.</b>	35950	34528	34335	00394	36073	36115	36001	00457		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	G12-4-1016	G12-4-1694	G12-4-1159	G12-4-1714	G12-4-1150	G12-4-2108	G12-4-1112	G12-4-2124			
ii.	<b>Ht. attest load</b>	510	468	510	468	510	466	509	467			
iii.	<b>Align .deviation</b>	8	23	7	21	4	19	3	21			
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-03-13		G-03-13		GF			
	ii.	Primary inner Spring			G-05-12		G-05-12		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							GMT			
	x.	Lateral Bump stop							SGA			
	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							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

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1.	SHELL No.	4027	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143163
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	VIBGYOR	88/88	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	CDTS			ESCORTS	
	iv.	SEAT & BERTH			SUTLEJ	
	v.	BODY SIDE DOORS			JBM, SUKATA	
	vi.	SALOON COMPTT DOORS			HANSPAL	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			SHIVALIK, KUTEER	
	ix	UIC VESTIBULE			COMCEN	
	x	LUGGAGE RACK			RAIL TECH	
	XI	FLOOR BOARD			NARBADA	
	XII	PVC			RESPONSIVE	
10.						
	10.1	Modification / Trail (if any):			NIL	
	10.2	Deviations if any:			NIL	



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12.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4027	NR	LWSCZAC	143163	23-08-2014			
12.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	146723				146724			
	ii.	Frame No.	FIAT-3367				FIAT-3384			
	iii.	Bolster No.	4044-P				4120-ECBT			
	iv.	Axle No.	RWF-110130	RWF-110287	W-4574		RWF-109657			
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.50	916.00	916.00	916.00
	vi.	Wheel Disc No.	248-10570	184-11600	246-11605	112-11600	086-10559	171-11605	234-11600	033-10559
	vii.	R.B. Nos.	35772	01124	01193	36616	36024	01030	00204	00966
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<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-12-4-1085	G-12-4-2126	G-12-4-998	G-12-4-2092	G-12-4-3923	G-12-4-1676	G-12-4-989	G-12-4-1758	
ii.	Ht. attest load	509	469	512	466	509	467	510	468	
iii.	Align .deviation	12	18	12	18	15	21	16	21	
12.3	<b>Items traceability:</b>									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		G-12-10		G-12-10		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						GMT		
	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						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.	4035	DISPATCH DATE			18.11.2014	
2.	Railway	NR	Type	LWSCZAC	Coach No.	143162	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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		VIBGYOR	88/89		
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.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				JBM, SUKATA		
vi.	SALOON COMPTT DOORS				AIR FLOW		
vii.	VESTIBULE SLIDING DOOR				KALSI		
viii.	WATER TANKS				SHIVALIK, KUTEER		
ix	UIC VESTIBULE				CEMCON		
x	LUGGAGE RACK				RAIL TECH		
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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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4035	NR	LWSCZAC	143162	28-08-2014			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	146741				146742			
	ii.	Frame No.	FIAT-3381				FIAT-3385			
	iii.	Bolster No.	4074-VT				3991-VT			
	iv.	Axle No.	106070/630		106092/630		Z-3080		106618/632	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	013-11610	165-10583	285-11600	073-11611	129-10570	096-11600	248-10579	088-10570
	vii.	R.B. Nos.	00402	00649	36022	36567	00532	00498	00531	34480
	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-12-4-1066	G12-4-2052	G12-4-969	G12-4-1739	G12-4-971	G12-4-2085	G12-4-1142	G12-4-2138	
ii.	Ht. attest load	509	466	510	467	510	467	509	465	
iii.	Align .deviation	7	15	8	18	6	25	3	23	
12.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		G-06-12		G-06-12		GF		
	ii.	Primary inner Spring		G-05-12		G-05-12		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						SGA		
	x.	Lateral Bump stop						SGA		
	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						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.	4036	DISPATCH DATE			18.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143162
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	VIBGYOR	89/89	
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.	SEAT & BERTH			SUTLEJ		
v.	BODY SIDE DOORS			JBM, SUKATA		
vi.	SALOON COMPTT DOORS			AIR FLOW		
vii.	VESTIBULE SLIDING DOOR			KALSI		
viii.	WATER TANKS			SHIVALIK, KUTEER		
ix	UIC VESTIBULE			KRP		
x	LUGGAGE RACK			SIVALIKA		
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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12.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4036	NR	LWSCZAC	143162	20-09-2014			
12.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	146805				146806			
	ii.	Frame No.	FIAT-3447				FIAT-3340			
	iii.	Bolster No.	4132				3947-P			
	iv.	Axle No.	129288/982		105907/631		106151/630		106416/628	
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	282-11603	290-10568	143-10570	102-11605	233-11603	276-11607	332-11603	071-11603
	vii.	R.B. Nos.	01280	00801	01192	01190	36219	36296	00982	00909
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<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-12-4-1081	G-12-4-2078	G-12-4-977	G-12-4-2078	G-12-4-1008	G-12-4-1734	G-12-4-1141	G-12-4-1743	
ii.	Ht. attest load	511	466	509	467	512	467	510	468	
iii.	Align .deviation	7	11	10	14	8	23	10	23	
12.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			G-03-13		G-03-13		GF	
	ii.	Primary inner Spring			G-05-12		G-05-12		GF	
	iii.	Primary Damper							SACHS	
	iv.	Secondary damper							SACHS	
	v.	Lateral Damper							KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							GMT	
	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							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.	4019	DISPATCH DATE			19.11.2014	
2.	Railway	NR	Type	LWSCZAC	Coach No.	143164	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	VIBGYOR	88/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			ESCORTS			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			AIR FLOW			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			SHIVALIK, KUTEER			
ix	UIC VESTIBULE			CEMCON			
x	LUGGAGE RACK			HANSPAL			
XI	FLOOR BOARD			NARBADA			
XII	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>						
			4019		NR		LWSCZAC		143164		30-08-2014						
12.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>									
	i.	<b>Bogie No.</b>	146751					146752									
	ii.	<b>Frame No.</b>	FIAT-3353					FIAT-3398									
	iii.	<b>Bolster No.</b>	3728-P					4112-VT									
	iv.	<b>Axle No.</b>	RWF-109926			106260/629		Z-3808		RWF-109779							
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.00	916.50	917.00	916.50	917.00							
	vi.	<b>Wheel Disc No.</b>	048-11607	016-11607	188-11603	047-11600	101-11603	062-10568	224-10570	227-11600							
	vii.	<b>R.B. Nos.</b>	01516	36584	01478	00951	36297	01433	36184	00949							
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN								
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING														
12.2	<b>Secondary suspension load deflection Values:</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		Inner	
i.	<b>Make &amp; nos.</b>	G-13-4-1029	G-13-4-2122	G-13-4-1032	G-13-4-1989	G-13-4-916	G-13-4-1754	G-13-4-915	G-13-4-2051								
ii.	<b>Ht. attest load</b>	509	467	509	468	512	466	512	467								
iii.	<b>Align .deviation</b>	3	15	4	19	2	18	5	20								
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-12-6				G-12-6				GF				
ii.		Primary inner Spring			G-12-5				G-12-5				GF				
iii.		Primary Damper											KONI				
iv.		Secondary damper											GEREP				
v.		Lateral Damper											---				
vi.		Yaw Damper											NIL				
vii.		Brake cylinder & Caliper											FTI				
viii.		Brake Disc											FTI				
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											SGA				
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.	<b>Modification / Trial (if any):</b>			NIL												
	ii.	<b>Deviations (if any):</b>			NIL												

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**ROLLING STOCK CERTIFICATE**

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4025	DISPATCH DATE			19.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143165
3.	Booked to		SSE/C&W/NDLS			
4.	Tare Weight of Coach		40.28 T			
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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		1098	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		GS	86/88
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
i.	BRAKE EQUIPMENT				FAIVELEY	
iii.	CDTS				ESCORTS	
iv.	SEAT & BERTH				SUTLEJ	
v.	BODY SIDE DOORS				JBM	
vi.	SALOON COMPTT DOORS				HANSPAL	
vii.	VESTIBULE SLIDING DOOR				KALSI	
viii.	WATER TANKS				SHIVALIK, AMIT	
ix	UIC VESTIBULE				CEMCON	
x	LUGGAGE RACK				HANSPAL	
XI	FLOOR BOARD				NARBADA	
XII	PVC				RESPONSIVE	
10.						
10.1	Modification / Trail (if any):				NIL	
10.2	Deviations if any:				NIL	



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12.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			4025	NR	LWSCZAC	143165	12-11-2014			
12.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	146943				146944			
	ii.	<b>Frame No.</b>	FIAT-3293				FIAT-3294			
	iii.	<b>Bolster No.</b>	4328-VT				4187-GT			
	iv.	<b>Axle No.</b>	RWF-106952		W-4566		128132/984		Z-3761	
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.00	916.00	918.00	918.00	917.00	917.00
	vi.	<b>Wheel Disc No.</b>	199-10570	025-10579	263-11600	230-11603	251-10568	253-11600	266-11600	308-10568
	vii.	<b>R.B. Nos.</b>	36320	30169	29501	27996	02107	28733	49489	36313
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	G-12-4-1135	G-12-4-1911	G-12-4-960	G-12-4-1979	G-12-4-1178	G-12-4-2091	G-12-4-1093	G-12-4-1977	
ii.	<b>Ht. attest load</b>	510	467	511	467	510	467	509	467	
iii.	<b>Align .deviation</b>	5	23	3	17	2	16	5	17	
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-13-6		G-13-6		GF		
	ii.	Primary inner Spring		G-13-3		G-13-3		GF		
	iii.	Primary Damper						KONI		
	iv.	Secondary damper						SACHS		
	v.	Lateral Damper						KONI		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						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						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.	<b>Modification / Trial (if any):</b>				NIL				
	ii.	<b>Deviations (if any):</b>				NIL				

LWSCZAC-4025





# रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

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## ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4037	DISPATCH DATE			19.11.2014
2.	Railway	NR	Type	LWSCZAC	Coach No.	143158
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	VIBGYOR	89/88	
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.	SEAT & BERTH			SHIVALIK		
v.	BODY SIDE DOORS			JBM, SUKATA		
vi.	SALOON COMPTT DOORS			AIR FLOW		
vii.	VESTIBULE SLIDING DOOR			KALSI		
viii.	WATER TANKS			SHIVALIK, KUTEER		
ix	UIC VESTIBULE			KRP		
x	LUGGAGE RACK			NA		
XI	FLOOR BOARD			ORIENTAL		
XII	PVC			RESPONSIVE		
10.						
10.1	Modification / Trail (if any):				NIL	
10.2	Deviations if any:				NIL	



# रेल डिब्बा कारखाना, कपूरथला

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12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
		4037	NR	LWSCZAC	143158	22-09-2014			
12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>			
	i. <b>Bogie No.</b>	146810				146809			
	ii. <b>Frame No.</b>	FIAT-3272				FIAT-3408			
	iii. <b>Bolster No.</b>	3928-P				3977-P			
	iv. <b>Axle No.</b>	106619/632		105784/627		129358/982		129373/982	
	v. <b>Wheel Dia.</b>	916.50	916.50	917.00	916.50	916.00	916.00	915.00	915.50
	vi. <b>Wheel Disc No.</b>	315-10568	349-10559	347-11605	018-11600	158-11611	097-11600	092-10568	315-11611
	vii. <b>R.B. Nos.</b>	01168	01325	00965	01313	01224	01189	00879	01285
	viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<b>Secondary suspension load deflection Values:</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	Inner
i.	<b>Make &amp; nos.</b>	G-12-4-	G-12-4-	G-12-4-	G-12-4-	G-12-4-	G-12-4-	G-12-4-	G-12-4-
ii.	<b>Ht. attest load</b>	511	467	510	467	509	467	509	465
iii.	<b>Align .deviation</b>	3	22	5	24	4	16	3	16
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-13-3		G-13-3		GF		
	ii.	Primary inner Spring	G-12-5		G-12-5		GF		
	iii.	Primary Damper					SACHS		
	iv.	Secondary damper					SACHS		
	v.	Lateral Damper					KONI		
	vi.	Yaw Damper					NIL		
	vii.	Brake cylinder & Caliper					FTI		
	viii.	Brake Disc					KBI		
	ix.	Ball joint Control arm					GMT		
	x.	Lateral Bump stop					GMT		
	xi.	Traction center make					EMSON		
	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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