



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4053	DISPATCH DATE				<b>19.03.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15417</b>	
3.	Booked to	<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage	<b>NIL</b>
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 )	<b>FAIVELEY</b>	<b>Fiba Device</b>	<b>NA</b>		
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	<b>PU PAINT</b>	<b>GS</b>	<b>85/87</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			<b>FAIVELEY</b>		
	ii	SEAT & BERTH			<b>SAVITRI</b>		
	iii	BODY SIDE DOORS			<b>SUKATA, JBM</b>		
	iv	WATER TANKS			<b>RAIL FAB</b>		
	v	FLOOR BOARD			<b>TAYAL</b>		
	VI	PVC			<b>PREMIER POLYFILM</b>		
	Vii	LP SHEET			<b>NA</b>		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>		
			4053		ECR		LS3		15417		10-03-2015		
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156187						156788				
	ii.	<b>Frame No.</b>	FIAT-3597						FIAT-3711				
	iii.	<b>Bolster No.</b>	4578-GT						4580-GT				
	iv.	<b>Axle No.</b>	C-0017			C-4044			A-3205		A-3047		
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	916.00	916.00	915.00	915.00			
	vi.	<b>Wheel Disc No.</b>	017-10579	012-63301	106-63307	123-10583	137-10533	277-10559	148-63301	218-11611			
	vii.	<b>R.B. Nos.</b>	24405	24397	24385	24679	25967	25627	25215	25201			
	viii.	<b>R.B. Make</b>	SKF			SKF			SKF		SKF		
	ix.	<b>RB Type</b>	<b>UIC CARTRIDGE TAPER ROLLER BEARING</b>										
<b>12.2</b>	<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>	GBD-14-07-5101	G-14-03-252		GBD-14-07-5101	G-14-03-247		GBD-14-07-5101	G-14-03-104	GBD-14-07-5101	G-14-03-209		
ii.	<b>Ht. at test load</b>	510	470		512	469		513	470	513	470		
iii.	<b>Align .deviation</b>	6	14		5	14		5	15	5	14		
<b>12.3</b>	<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				GBD-14-07			GBD-14-07		GBD		
	ii.	Primary inner Spring				G-14-03			G-14-03		GF		
	iii.	Primary Damper									KONI		
	iv.	Secondary damper									GEREP		
	v.	Lateral Damper									GEREP		
	vi.	Yaw Damper									NIL		
	vii.	Brake cylinder & Caliper									KBI		
	viii.	Brake Disc									FTI		
	ix.	Ball joint Control arm									SGA,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,GMT		
	xix.	Fork make									SARITA		
12.4	i.	<b>Modification / Trial (if any):</b>						NIL					
	ii.	<b>Deviations (if any):</b>						NIL					

**LS3-4053**



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4052	DISPATCH DATE				21.03.2015
2.	Railway	ECR	Type	LS3	Coach No.	15418	
3.	Booked to	SSE/C&W/RNCC					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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 )	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	GS	86/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			KBI			
li	SEAT & BERTH			SAVITRI			
lii	BODY SIDE DOORS			SUKATA, JBM			
lv	WATER TANKS			RAIL FAB			
v	FLOOR BOARD			TAYAL			
VI	PVC			PREMIER POLYFILM			
Vii	LP SHEET			NA			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4052		ECR		LS3		15418		09-03-2015	
12.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156184						156185			
	ii.	<b>Frame No.</b>	FIAT-3898						FIAT-3868			
	iii.	<b>Bolster No.</b>	4561-GT						4562-GT			
	iv.	<b>Axle No.</b>	B-9880			A-2939			A-2922		B-9905	
	v.	<b>Wheel Dia.</b>	915.00	915.50	917.00	917.50	916.00	916.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	078-11611	049-63302	222-10582	089-63301	268-63301	309-10579	212-63305	249-10583		
	vii.	<b>R.B. Nos.</b>	24981	25208	24268	25118	25209	26715	24270	25109		
	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>	GBD-14-05-48	CMFSK-14-12-20	GBD-14-05-21	CMFSK-14-12-22	GBD-14-05-20	CMFSK-14-12-09	GBD-14-05-40	CMFSK-14-12-8			
ii.	<b>Ht. at test load</b>	513	471	513	470.50	512	468	513	468.50			
iii.	<b>Align .deviation</b>	4	5	5	5	6	5	6	5			
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			CMFSK-14-2-1100			CMFSK-14-2-1100			CMFSK	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper									KONI	
	iv.	Secondary damper									GEREP	
	v.	Lateral Damper									GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									BHAM,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.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

LS3-4052



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

**ROLLING STOCK CERTIFICATE**

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4043	DISPATCH DATE				<b>21.03.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15416</b>	
3.	Booked to	<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage <b>NIL</b>	
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 )	<b>ESCORTS</b>	<b>Fiba Device</b>	<b>NA</b>		
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	<b>PU PAINT</b>	<b>GS</b>	<b>85/87</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			<b>FAIVELEY</b>		
	ii	SEAT & BERTH			<b>SAVITRI</b>		
	iii	BODY SIDE DOORS			<b>SUKATA</b>		
	iv	WATER TANKS			<b>RAIL FAB</b>		
	v	FLOOR BOARD			<b>TAYAL</b>		
	VI	PVC			<b>PREMIER POLYFILM</b>		
	Vii	LP SHEET			<b>NA</b>		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4043	ECR	LS3	15416	10-03-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156182				156183			
	ii.	Frame No.	SCI-FM-132				SCI-FM-125			
	iii.	Bolster No.	4565-GT				4575-GT			
	iv.	Axle No.	C-4074		B-9885		B-9879		C-4130	
	v.	Wheel Dia.	915.00	915.00	917.00	916.50	915.00	915.50	915.50	915.50
	vi.	Wheel Disc No.	030-11605	343-11605	187-10582	103-10570	064-63301	035-63305	323-10582	266-10559
	vii.	R.B. Nos.	24120	24099	30178	30870	24919	26712	24419	26230
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	GBD-14-05-35	CMFSK-14-12-3	GBD-14-05-28	CMFSK-14-12-01	GBD-14-05-6	CMFSK-14-12-25	GBD-14-05-53	CMFSK-14-12-13	
ii.	Ht. at test load	515	469	516	470	513	478	513	472	
iii.	Align .deviation	7	7	7	6	6	8	6	8	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			CMFSK-14-12		CMFSK-14-12		CMFSK	
	ii.	Primary inner Spring			G-14-03		G-14-05		GF	
	iii.	Primary Damper							KONI	
	iv.	Secondary damper							GEREP	
	v.	Lateral Damper							GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							BHAM	
	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				

LS3-4043



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4050	DISPATCH DATE				<b>24.03.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15420</b>	
3.	Booked to	<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage <b>NIL</b>	
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 )	<b>FAIVELEY</b>	<b>Fiba Device</b>	<b>NA</b>		
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	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>85/86</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			<b>KBI</b>		
	ii	SEAT & BERTH			<b>SAVITRI</b>		
	iii	BODY SIDE DOORS			<b>SUKATA</b>		
	iv	WATER TANKS			<b>RAIL FAB</b>		
	v	FLOOR BOARD			<b>TAYAL</b>		
	VI	PVC			<b>RESPONSIVE</b>		
	Vii	LP SHEET			<b>NA</b>		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4050		ECR		LS3		15420		13-03-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156208						156209			
	ii.	Frame No.	FIAT-3594						FIAT-3838			
	iii.	Bolster No.	4539-gt						4546-GT			
	iv.	Axle No.	C-4601			C-4008			A-3194		A-2941	
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	917.00	917.00	916.50	916.00		
	vi.	Wheel Disc No.	288-10583	130-63307	088-10579	244-11611	352-63301	268-11611	054-10559	229-11603		
	vii.	R.B. Nos.	36247	35864	36644	36196	36638	36366	36345	36571		
	viii.	R.B. Make	TIM			TIM			TIM		TIM	
	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-14-3-113	G-14-3-037	G-14-3-159	G-14-3-022	G-14-3-073	G-14-3-168	G-14-3-075	G-14-3-019			
ii.	Ht. at test load	515	471	514	468	514	470	513	468			
iii.	Align .deviation	6	9	7	12	2	13	5	15			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			GBD-02		GBD-02		GBD			
	ii.	Primary inner Spring			G-14-3		G-14-3		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							NOT FITTED			
	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							EMSON			
12.4	i.	Modification / Trial (if any):				NIL						
	ii.	Deviations (if any):				NIL						

LS3-4050





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4054	DISPATCH DATE				<b>27.03.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15419</b>	
3.	Booked to	<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage	<b>NIL</b>
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 )	<b>FAIVELEY</b>	<b>Fiba Device</b>	<b>NA</b>			
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	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>86/88</b>			
8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>					
8.3	INSUALTION	<b>SATISFACTORY</b>					
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT			<b>KBI</b>			
ii	SEAT & BERTH			<b>SAVITRI</b>			
iii	BODY SIDE DOORS			<b>SUKATA</b>			
iv	WATER TANKS			<b>RAIL FAB</b>			
v	FLOOR BOARD			<b>TAYAL</b>			
VI	PVC			<b>RESPONSIVE</b>			
Vii	LP SHEET			<b>NA</b>			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

12.	<b>Bogie Details:</b>		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4054		ECR		LS3		15419/C		13-03-2015	
12.1	<b>Wheel &amp; Axle Details:</b>		PP Side						NPP Side			
	i.	<b>Bogie No.</b>	156210						156211			
	ii.	<b>Frame No.</b>	FIAT-3886						FM-123			
	iii.	<b>Bolster No.</b>	4571-GT						4374-VT			
	iv.	<b>Axle No.</b>	B-9977			C-4143			C-4655		C-4105	
	v.	<b>Wheel Dia.</b>	915.00	915.50	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	134-10533	245-11611	212-10570	048-61077	256-10582	268-10533	095-10579	038-63301		
	vii.	<b>R.B. Nos.</b>	35874	36203	35888	36203	36124	36456	36142	36324		
	viii.	<b>R.B. Make</b>	TIM			TIM			TIM		TIM	
	ix.	<b>RB Type</b>	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.	<b>Make &amp; nos.</b>	G-14-3-144	G-14-3-089	G-14-3-050	G-14-3-046	G-14-3-149	G-14-3-256	G-14-3-028	G-14-3-276			
ii.	<b>Ht. at test load</b>	514	471	515	469	514	468	514	470			
iii.	<b>Align .deviation</b>	2	10	4	13	4	20	6	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			GBD-02		GBD-02		GBD			
	ii.	Primary inner Spring			G-14-3		G-14-3		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	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							EMSON			
12.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

LS3-4054



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4060	DISPATCH DATE				08.04.2015
2.	Railway	ECR	Type	LS3	Coach No.	15423	
3.	Booked to	SSE/C&W/RNCC					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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 )	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	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	OVPL				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	RESPONSIVE				
	Vii	LP SHEET	NA				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



**रेल डिब्बा कारखाना, कपूरथला**  
Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			4060	ECR	LS3	15423	23-03-2015			
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156234				156235			
	ii.	<b>Frame No.</b>	ECBT-900				BEC-08			
	iii.	<b>Bolster No.</b>	4621-P				4619-P			
	iv.	<b>Axle No.</b>	C-4113		C-4366		A-2868		C-3972	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	145-11611	009-10583	122-63307	303-11611	250-11611	358-10533	052-63301	053-10559
	vii.	<b>R.B. Nos.</b>	02564	01640	01029	00928	01907	01838	02533	02135
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING							
<b>12.2</b>	<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>	DN-14-01-292	G-14-4-359	DN-14-01-232	G-14-4-333	DN-14-01-335	G-14-4-397	DN-14-01-343	G-14-4-319	
ii.	<b>Ht. at test load</b>	515	470	516	470	515	469	516	469	
iii.	<b>Align .deviation</b>	11	11	12	11	14	13	16	18	
<b>12.3</b>	<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			RSK-11-11		RSK-11-11		RSK	
	ii.	Primary inner Spring			RSK-11-11		RSK-11-11		RSK	
	iii.	Primary Damper							GEREP	
	iv.	Secondary damper							GEREP	
	v.	Lateral Damper							GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							KBI	
	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							SARITA	
	xix.	Fork make							SARITA	
12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
	ii.	<b>Deviations (if any):</b>				NIL				

**LS3-4060**



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4058	DISPATCH DATE				<b>03.04.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15424</b>	
3.	Booked to	<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	Sleeping	<b>NIL</b>	Luggage	<b>NIL</b>
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 )	<b>FAIVELEY</b>	<b>Fiba Device</b>	<b>NA</b>			
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	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>85/86</b>			
8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>					
8.3	INSUALTION	<b>SATISFACTORY</b>					
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT				<b>KBI</b>		
ii	SEAT & BERTH				<b>OVPL</b>		
iii	BODY SIDE DOORS				<b>SUKATA</b>		
iv	WATER TANKS				<b>RAIL FAB</b>		
v	FLOOR BOARD				<b>TAYAL</b>		
VI	PVC				<b>RESPONSIVE</b>		
Vii	LP SHEET				<b>NA</b>		
10.							
10.1	Modification / Trail (if any):				<b>NIL</b>		
10.2	Deviations if any:				<b>NIL</b>		



**रेल डिब्बा कारखाना, कपूरथला**  
Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4058		ECR		LS3		15424		19-03-2015	
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156232						156233			
	ii.	<b>Frame No.</b>	ECBT-908						FIAT-3659			
	iii.	<b>Bolster No.</b>	4540-GT						4607-GT			
	iv.	<b>Axle No.</b>	C-0014			C-0055			C-4575		C-4002	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.50	916.00	916.50	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	121-61077	110-10533	092-63301	241-10582	244-10559	217-10568	179-10579	192-10579		
	vii.	<b>R.B. Nos.</b>	03375	03329	03126	03012	03130	03301	03308	02991		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
<b>12.2</b>	<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>	DN-14-01-376	G-14-4-355	DN-14-01-271	G-14-4-390	DN-14-01-342	G-14-4-391	DN-14-01-369	G-14-4-246			
ii.	<b>Ht. at test load</b>	511	471	512	471	514	368	515	471			
iii.	<b>Align .deviation</b>	7	10	10	12	15	13	12	13			
<b>12.3</b>	<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			RSK-14-11		RSK-14-11		RSK			
	ii.	Primary inner Spring			RSK-14-11		RSK-14-11		RSK			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	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			
	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					

**LS3-4058**



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4056	DISPATCH DATE				02.04.2015
2.	Railway	ECR	Type	LS3	Coach No.	15422	
3.	Booked to	SSE/C&W/RNCC					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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 )	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	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			OVPL		
	lii	BODY SIDE DOORS			SUKATA, JBM		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NK		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



**रेल डिब्बा कारखाना, कपूरथला**  
Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4056		ECR		LS3		15422		19-03-2015	
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156226						156227			
	ii.	<b>Frame No.</b>	FIAT-3871						FIAT-3965			
	iii.	<b>Bolster No.</b>	4617-P						4596-P			
	iv.	<b>Axle No.</b>	C-0083			C-4310			B-9780		C-0001	
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.50	915.00	915.00	915.00	915.00	915.00	915.00	
	vi.	<b>Wheel Disc No.</b>	095-10582	156-10582	075-63302	115-10568	338-63301	177-63307	139-10568	346-63301		
	vii.	<b>R.B. Nos.</b>	02718	01497	01471	02646	02692	02308	02074	00870		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
<b>12.2</b>	<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	Outer	Inner	
i.	<b>Make &amp; nos.</b>	CMFSK-15-1-115	G-14-03-152	CMFSK-15-01-26	G-14-03-146-	CMFSK-15-01-31	G-14-03-124	CMFSK-15-1-27	G-14-03-143			
ii.	<b>Ht. at test load</b>	515	471	516	470	512	470	514	472			
iii.	<b>Align .deviation</b>	8	14	6	14	5	19	7	19			
<b>12.3</b>	<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-14-4			G-14-4			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper									GEREP	
	iv.	Secondary damper									GEREP	
	v.	Lateral Damper									GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									KBI	
	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									SARITA	
	xix.	Fork make									EMSON	
12.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

**LS3-4056**





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4036	DISPATCH DATE				<b>02.04.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15421</b>	
3.	Booked to	<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage	<b>NIL</b>
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	1103	1105		
	v)	Buffer/CBC (Make )	<b>ESCORTS</b>	<b>Fiba Device</b>	<b>NA</b>		
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	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>86/87</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			<b>KBI</b>		
	ii	SEAT & BERTH			<b>OVPL</b>		
	iii	BODY SIDE DOORS			<b>SUKATA, JBM</b>		
	iv	WATER TANKS			<b>RAIL FAB</b>		
	v	FLOOR BOARD			<b>TAYAL</b>		
	VI	PVC			<b>RESPONSIVE</b>		
	Vii	LP SHEET			<b>NA</b>		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4036		ECR		LS3		15421		21-03-2015	
12.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>3NPP Side</b>			
	i.	<b>Bogie No.</b>	156231						156230			
	ii.	<b>Frame No.</b>	ECBT-956						FIAT-3856			
	iii.	<b>Bolster No.</b>	4508-GT						4623-P			
	iv.	<b>Axle No.</b>	A-3088			A-2936			C-4702		C-4195	
	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>	269-10582	290-10582	023-10559	302-10559	134-11611	210-11611	296-10568	353-63302		
	vii.	<b>R.B. Nos.</b>	01435	01287	01461	01064	36612	01473	02731	02255		
	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>	DN-14-01-366	G-14-03-128	DN-14-01-332	G-14-03-133	DN-14-01-387	G-14-03-109	DN-14-01-349	G-14-03-122			
ii.	<b>Ht. at test load</b>	515	470	513	470	516	470	516	471			
iii.	<b>Align .deviation</b>	11	16	12	17	11	20	12	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			RSK-11-11		RSK-11-11		RSK			
	ii.	Primary inner Spring			RSK-11-11		RSK-11-11		RSK			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	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							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	<b>Modification / Trial (if any):</b>				NIL						
	ii.	<b>Deviations (if any):</b>				NIL						

**LS3-4036**



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4055	DISPATCH DATE				24.04.2015
2.	Railway	ECR	Type	LS3	Coach No.	15433	
3.	Booked to	SSE/C&W/DANAPUR					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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	1104		
	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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT	KBI				
	li	SEAT & BERTH	SAVITRI				
	lii	BODY SIDE DOORS	SUKATA				
	lv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	RESPONSIVE				
	Vii	LP SHEET	NA				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4055	ECR	LS3	15433	26-03-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156248				156249			
	ii.	Frame No.	FIAT-3842				FIAT-3606			
	iii.	Bolster No.	4650-P				4599-P			
	iv.	Axle No.	C-3968		C-4786		Z-3090		A-2933	
	v.	Wheel Dia.	915.00	915.50	916.00	916.00	916.00	916.00	915.00	915.50
	vi.	Wheel Disc No.	131-10583	019-11511	047-10582	301-10568	235-10579	123-11603	045-10570	128-10533
	vii.	R.B. Nos.	00812	01107	01457	01223	01566	00827	01075	04832
	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.	DN-13-11-137	G-13-12-264	DN-13-11-246	G-13-12-265	DN-13-11-537	G-13-12-244	DN-13-11-563	G-13-12-270	
ii.	Ht. at test load	511	471	513	471	514	472	514	472	
iii.	Align .deviation	12	10	15	13	11	15	12	17	
12.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		RSK-11-11		RSK-11-11		RSK		
	ii.	Primary inner Spring		RSK-11-11		RSK-11-11		RSK		
	iii.	Primary Damper						GEREP		
	iv.	Secondary damper						GEREP		
	v.	Lateral Damper						GEREP		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						KBI		
	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		
	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					

LS3-4055



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4064	DISPATCH DATE				09/5/2015
2.	Railway	ECR	Type	LS3	Coach No.	15441	
3.	Booked to	SSE/C&W/DANA PUR					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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 )	FAVELLY	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	85/85			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:	Make					
I	BRAKE EQUIPMENT	FAVELLY					
ii	SEAT & BERTH	ARR KAYEE					
iii	BODY SIDE DOORS	JBM, SUKATA					
iv	WATER TANKS	RAIL FAB					
v	FLOOR BOARD	TAYAL					
VI	PVC	RESPONSIVE					
Vii	LP SHEET						
10.							
10.1	Modification / Trail (if any):	NIL					
10.2	Deviations if any:	NIL					



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4064	ECR	LS3	15441	27-04-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156282				156288			
	ii.	Frame No.	FIAT-3909				ECBT-907			
	iii.	Bolster No.	4669				4564-GT			
	iv.	Axle No.	B-9691		127926/988		C-4378		A-3172	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	227-10583	053-10533	313-10582	053-10570	344-10533	229-11611	167-10579	216-10533
	vii.	R.B. Nos.	25234	36258	01990	36332	36222	36340	29625	36327
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	DN-14-1-670	G-11-04-015	DN-14-01-666	G-11-4-112	DN-01-14-274	DN-01-14-261	DN-1-14-359	DN+01-14-244	
ii.	Ht. at test load	512	471	513	470	514	462	514	469	
iii.	Align .deviation	12	7	13	8	15	14	13	12	
12.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		G-14-4		G-12-4		GF		
	ii.	Primary inner Spring		G-14-3		G-14-3		GF		
	iii.	Primary Damper						GEREP		
	iv.	Secondary damper						GEREP		
	v.	Lateral Damper						KONI		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper						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		
	xv.	Secondary rubber pad						TESPAK		
	xvi.	Rubber spring						GMT		
	xvii.	Anti roll bar make						EMSON,SARITA		
	xviii.	Ball joint roll link						SARITA		
	xix.	Fork make						GMT,EMSON		
12.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LS3-4064



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4065	DISPATCH DATE				<b>20.05.2015</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15445</b>	
3.	Booked to	<b>SSE/C&amp;W/CSTM</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	Sleeping	<b>NIL</b>	Luggage	<b>NIL</b>
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 )	<b>FAVELLY</b>	<b>Fiba Device</b>	<b>NA</b>			
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		<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>85/87</b>		
8.2	APPLICATION OF PCN-123		<b>SATISFACTORY</b>				
8.3	INSUALTION		<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			<b>KBI</b>			
ii	SEAT & BERTH			<b>ARR KAYEE</b>			
iii	BODY SIDE DOORS			<b>JBM, SUKATA</b>			
iv	WATER TANKS			<b>RAIL FAB ,RUBICONE</b>			
v	FLOOR BOARD			<b>TAYAL</b>			
VI	PVC			<b>RESPONSIVE</b>			
Vii	LP SHEET			<b>NA</b>			
10.							
10.1	Modification / Trail (if any):					<b>NIL</b>	
10.2	Deviations if any:					<b>NIL</b>	



**रेल डिब्बा कारखाना, कपूरथला**  
Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4065		ECR		LS3		15445		04-05-2015	
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156289						156290			
	ii.	<b>Frame No.</b>	FIAT-3913						FIAT-3791			
	iii.	<b>Bolster No.</b>	4691-VT						4688-VT			
	iv.	<b>Axle No.</b>	C-4629			128293/907			C-4615		A-2846	
	v.	<b>Wheel Dia.</b>	915.00	915.00	916.00	916.00	916.00	916.00	915.00	915.00		
	vi.	<b>Wheel Disc No.</b>	059-10582	266-10559	246-10559	275-63301	202-10533	307-10559	228-10582	132-10570		
	vii.	<b>R.B. Nos.</b>	03467	02045	02788	02819	01892	04816	03027	03044		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
<b>12.2</b>	<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>	DN-14-1-402	DN-14-1-218	DN-14-1-42	DN-14-1-178	DN-14-1-340	DN-14-1-172	DN-14-1-432	DN-14-1-234			
ii.	<b>Ht. at test load</b>	516	470	516	472	514	472	512	471			
iii.	<b>Align .deviation</b>	14	15	12	14	14	12	13	11			
<b>12.3</b>	<b>Items traceability:</b>											
	<b>S no.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
	i.	Primary Outer Spring			G-14-3		G-14-3		GF			
	ii.	Primary inner Spring			G-14-3		G-14-3		GF			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	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			
	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			
12.4	i.	<b>Modification / Trial (if any):</b>				NIL						
	ii.	<b>Deviations (if any):</b>				NIL						

**LS3-4065**





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4062	DISPATCH DATE				22.05.2015
2.	Railway	ECR	Type	LS3	Coach No.	15439	
3.	Booked to	SSE/C&W/DANA PUR					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	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	1102	1105		
	v)	Buffer/CBC (Make )	FAVELLY	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	85/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			SAVITRI		
	lii	BODY SIDE DOORS			JBM, SUKATA		
	lv	WATER TANKS			RUBICONE		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NA		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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Rail Coach Factory , Kapurthala

<b>12.</b>	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4062		ECR		LS3		4062		11-04-2015	
<b>12.1</b>	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156283						156301			
	ii.	<b>Frame No.</b>	FIAT-3897						FIAT-3843			
	iii.	<b>Bolster No.</b>	4590-P						4632-P			
	iv.	<b>Axle No.</b>	114912/369		128697/989		126709/468		106360/629			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	033-63301	166-10559	356-63301	282-10533	043-63301	180-10559	236-10533	204-63305		
	vii.	<b>R.B. Nos.</b>	30161	30265	29516	30249	02800	03030	03008	04260		
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
<b>12.2</b>	<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>	DN-14-01-676	G-11-04-075	DN-14-01-656	G-11-04-115	DN-14-03-694	DN-14-03-496	DN-14-03-631	DN-14-03-476			
ii.	<b>Ht. at test load</b>	516	471	516	470	515	471	515	468			
iii.	<b>Align .deviation</b>	11	15	11	16	10	11	10	15			
<b>12.3</b>	<b>Items traceability:</b>											
	<b>S no.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-11-11			RSK-11-11			RSK	
	ii.	Primary inner Spring			RSK-11-11			RSK-11-11			RSK	
	iii.	Primary Damper			1467,760,651,345			1000,1002,1139,853			GEREP	
	iv.	Secondary damper			1150,823			1065,1139			GEREP	
	v.	Lateral Damper			4590			2982			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									----	
	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	
	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					

**LS3-4062**