



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4033	DISPATCH DATE				22.12.2014
2.	Railway	NER	Type	LS3	Coach No.	14227	
3.	Booked to	SSE/C&W/GKP					
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	1100			
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 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	ADVANCE	86/87			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i	BRAKE EQUIPMENT					KBI	
ii	SEAT & BERTH					MANOJ	
iii	BODY SIDE DOORS					JBM	
iv	WATER TANKS					RUBICONE, RAIL FAB	
v	FLOOR BOARD					TAYAL	
VI	PVC					RESPONSIVE/PREMIER PROFILE	
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	
			4033		NER		LS3		14227		02-12-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146991						146992			
	ii.	Frame No.	FIAT-3570						FIAT-3563			
	iii.	Bolster No.	4309						4275-VT			
	iv.	Axle No.	105887/627			Z-3477			126368/474		126805/468	
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
	vi.	Wheel Disc No.	166-51912	056-51916	092-51910	213-51908	111-51910	145-51908	064-51910	202-51912		
	vii.	R.B. Nos.	31049	37717	30124	36721	30236	36704	30137	27681		
	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.	G-14-3-095	G-14-3-108	G-14-3-176	G-14-3-120	G-14-3-094	G-14-3-134	G-14-3-142	G-14-3-119			
ii.	Ht. attest load	515	469	515	470	519	470	515	470			
iii.	Align .deviation	3	20	4	21	3	18	4	20			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-14-4		G-14-4		GF			
	ii.	Primary inner Spring			G-14-4		G-14-4		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							KBI,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.	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.	4028	DISPATCH DATE				23.12.2014
2.	Railway	NER	Type	LS3	Coach No.	14526	
3.	Booked to	SSE/C&W/GKP					
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		1104	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 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	ADVANCE	88/89		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			KBI			
li	SEAT & BERTH			CPF			
lii	BODY SIDE DOORS			JBM			
lv	WATER TANKS			RUBICONE			
v	FLOOR BOARD			NARBADA			
VI	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	
			4028		NE		LS3		14526/C		26-11-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146975						146976			
	ii.	Frame No.	FIAT-3553						FIAT-3574			
	iii.	Bolster No.	3881-VT						4349-VT			
	iv.	Axle No.	RWF-109683			126983/476			Z-3656		126780/468	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	915.00	915.00		
	vi.	Wheel Disc No.	055-10568	016-10570	268-10583	344-11603	058-10579	638-10570	239-51915	175-51915		
	vii.	R.B. Nos.	31256	02873	36736	02867	31526	31698	36714	27690		
	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.		G-14-3-054	G-14-3-299	G-14-3-040	G-14-3-142	G-14-3-019	G-14-3-099	G-14-3-170	G-14-3-208		
ii.	Ht. attest load		514	470	514	471	514	470	513	469		
iii.	Align .deviation		3	14	4	17	4	17	4	16		
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-4			G-14-4			GF	
	ii.	Primary inner Spring			G-14-4			G-14-4			GF	
	iii.	Primary Damper									KONI	
	iv.	Secondary damper									GEREP	
	v.	Lateral Damper									KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									KBI	
	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.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							



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1.	SHELL No.	4023	DISPATCH DATE				22.12.2014
2.	Railway	NER	Type	LS3	Coach No.	14528	
3.	Booked to	SSE/C&W/GKP					
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	1100		
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 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	ADVANCE	87/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:	Make					
I	BRAKE EQUIPMENT	KBI					
li	SEAT & BERTH	AAR KAY FOAMS					
lii	BODY SIDE DOORS	JBM					
lv	WATER TANKS	RUBICONE					
v	FLOOR BOARD	TAYAL					
VI	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	
			4023		4023		LS3		14528		31-12-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146995						146996			
	ii.	Frame No.	FIAT-3556						FIAT-3554			
	iii.	Bolster No.	4389-VT						4377-VT			
	iv.	Axle No.	H-3650			Z-3668			Z-3663		105935/631	
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.50	915.00	915.50		
	vi.	Wheel Disc No.	109-51910	300-51913	109-51915	262-51910	216-51908	134-51910	083-51915	082-51912		
	vii.	R.B. Nos.	36718	37727	27495	36555	36717	27500	36711	27488		
	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.	G-12-4-14-196	G-14-4-14-341	G-14-4-14-196	G-14-4-14-386	G-14-3-14-167	G-14-3-14-126	G-14-3-14-167	G-14-3-14-041			
ii.	Ht. attest load	514	469	513	468	514	469	513	468			
iii.	Align .deviation	6	13	6	11	3	20	1	15			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-4			G-14-4			GF	
	ii.	Primary inner Spring			G-14-4			G-14-4			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									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									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.	4018	DISPATCH DATE				29.12.2014
2.	Railway	NER	Type	LS3	Coach No.	14508	
3.	Booked to	SSE/C&W/GKP					
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)	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 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	ADVANCE	88/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	KBI				
	li	SEAT & BERTH	AAR KAY FOAMS				
	lii	BODY SIDE DOORS	JBM				
	lv	WATER TANKS	RAIL FAB,RUBICON				
	v	FLOOR BOARD	ORIENTAL				
	VI	PVC	RESPONSIVE				
10.	Modification / Trail (if any):					NIL	
	10.1	Deviations if any:				NIL	
	10.2					NIL	



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

12.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		4018	NE	LS3	14507/C	22-11-2014			
12.1	Wheel & Axle Details:	PP Side				NPP Side			
	i. Bogie No.	146969				146970			
	ii. Frame No.	SCI/FM-59				SCI/FM-61			
	iii. Bolster No.	4337-VT				4301-VT			
	iv. Axle No.	106665/632		A-3053		129388/982		Z-3960	
	v. Wheel Dia.	918.00	918.00	918.00	918.00	917.00	917.00	916.00	916.00
	vi. Wheel Disc No.	084-51910	032-51915	204-10568	082-11603	228-11600	073-10570	124-10579	249-10568
	vii. R.B. Nos.	31902	36881	37829	28745	37113	36918	31105	31112
	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.	G-14-8-002	G-14-8-025	G-14-8-102	G-14-8-098	G-14-3-034	G-14-3-172	G-14-3-135	G-14-3-084
	ii. Ht. attest load	514	471	515	470	515	471	514	471
	iii. Align .deviation	4	20	3	18	2	10	2	8
12.3	Items traceability:								
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make
	i.	Primary Outer Spring			G-13-11		G-14-4		GF
	ii.	Primary inner Spring			G-13-4		G-14-4		GF
	iii.	Primary Damper							KONI
	iv.	Secondary damper							GEREP
	v.	Lateral Damper							KONI
	vi.	Yaw Damper							NIL
	vii.	Brake cylinder & Caliper							KBI
	viii.	Brake Disc							KBI,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.	Modification / Trial (if any):					NIL		
	ii.	Deviations (if any):					NIL		

LS3-4018



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4024	DISPATCH DATE				27.12.2014
2.	Railway	NER	Type	LS3	Coach No.	14525	
3.	Booked to	SSE/C&W/GKP					
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)	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 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	ADVANCE	88/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:	Make					
I	BRAKE EQUIPMENT	KBI					
ii	SEAT & BERTH	AAR KAY FOAMS					
iii	BODY SIDE DOORS	JBM					
iv	WATER TANKS	RAIL FAB					
v	FLOOR BOARD	TAYAL					
VI	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	
			4024		NE		LS3		14525/C		28-11-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146983						146984			
	ii.	Frame No.	FIAT-3568						FIAT-3580			
	iii.	Bolster No.	4357-VT						4393-VT			
	iv.	Axle No.	125672/479		126526/481		128021/988		129320/982			
	v.	Wheel Dia.	915.50	915.50	916.00	916.00	915.00	915.00	915.50	915.50		
	vi.	Wheel Disc No.	052-61077	059-51910	225-51908	017-51910	312-51910	305-51910	292-51908	261-51915		
	vii.	R.B. Nos.	02102	30097	30106	02048	31942	31375	30392	02438		
	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.	G-14-3-055	G-14-3-093	G-14-3-037	G-14-3-178	G-14-3-130	G-14-3-169	G-14-3-036	G-14-3-091			
ii.	Ht. attest load	514	471	516	470	513	471	513	469			
iii.	Align .deviation	4	9	4	11	3	12	2	12			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring			G-14-4			G-14-4		GF		
	ii.	Primary inner Spring			G-14-4			G-14-4		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								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							

LS3-4024



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4013	DISPATCH DATE				30.12.2014
2.	Railway	NER	Type	LS3	Coach No.	14529	
3.	Booked to	SSE/C&W/GKP					
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 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	ADVANCE	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			OVPL		
	lii	BODY SIDE DOORS			JBM, MOHAN		
	lv	WATER TANKS			RAIL FAB,RUBICON		
	v	FLOOR BOARD			TAYAL		
	VI	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	
			4013		NE		LS3		14529/C		15-12-2014	
12.1	Wheel & Axle Details:		PP Side				NPP Side					
	i.	Bogie No.	147020				147028					
	ii.	Frame No.	FIAT-3608				FIAT-3616					
	iii.	Bolster No.	4196-GT				4407-VT					
	iv.	Axle No.	125810/477		106464/628		125838/477		T-1961			
	v.	Wheel Dia.	916.00	916.50	917.00	916.50	916.00	916.50	916.00	916.00		916.00
	vi.	Wheel Disc No.	348-11610	315-51910	163-10583	058-10570	137-10568	272-11611	251-11611	029-10583		
	vii.	R.B. Nos.	31497	32069	31492	30305	30412	02385	31588	02446		
	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	Outer	Inner	
i.	Make & nos.	G-14-3-101	G-14-3-092	G-14-3-099	G-14-3-12	G-14-3-069	G-14-3-083	G-14-3-100	G-14-3-023			
ii.	Ht. attest load	512	469	514	468	513	471	513	466			
iii.	Align .deviation	5	10	2	10	5	9	4	8			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-14-4		G-14-4		GF			
	ii.	Primary inner Spring			G-14-4		G-14-4		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							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							SARITA			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	Modification / Trial (if any):				NIL						
	ii.	Deviations (if any):				NIL						