



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4040	DISPATCH DATE				28.02.2015
2.	Railway	ECR	Type	LS3	Coach No.	15411	
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	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 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	VIBGYOR	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			SAVITRI		
	iii	BODY SIDE DOORS			SUKATA		
	iv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			PREMIER POLYFILM		
	Vii	LP SHEET			LP		
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	
			4040		ECR		LS3		15411		18-02-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156148					156149				
	ii.	Frame No.	FIAT-3748					FIAT-3764				
	iii.	Bolster No.	4518-GT					4521-GT				
	iv.	Axle No.	A-3237			C-4186		A-2912			C-4447	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	082-10582	243-10582	018-63321	194-63302	146-10579	007-63301	090-10582	194-10582		
	vii.	R.B. Nos.	27663	27713	27699	27711	27568	27679	36705	36708		
	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-14-02-95	CMFSK-14-12-34	GBD-14-02-100	CMFSK-14-12-31	GBD-14-02-20	CMFSK-14-12-15	GBD-14-02-26	CMFSK-14-12-33			
ii.	Ht. attest load	512	467	510	472	512	470	510	467			
iii.	Align .deviation	5	6	5	6	4	7	4	7			
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			CMFSK-14-12		CMFSK-14-12		CMFSK			
	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,KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							SGA,GMT			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							GMT			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
12.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4047	DISPATCH DATE				28.02.2015
2.	Railway	ECR	Type	LS3	Coach No.	15410	
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)	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	VIBGYOR	87/89		
	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			PREMIER POLYFILM		
	Vii	LP SHEET			NA		
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			
			4047	ECR	LS3	15410	18-02-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156140				156141			
	ii.	Frame No.	FIAT-3809				FIAT-3713			
	iii.	Bolster No.	4524-GT				4348-VT			
	iv.	Axle No.	B-9646		C-4229		A-3245		A-2890	
	v.	Wheel Dia.	916.00	916.00	915.50	915.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	165-11603	139-63305	022-63302	124-11610	199-63307	079-10583	081-63305	067-11611
	vii.	R.B. Nos.	30540	30529	25670	27682	29990	30493	30567	02548
	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-14-02-5101-69	GBD-14-02-5100-19	GBD-14-02-5101-46	GBD-14-11-5100-15	GBD-14-02-5101-63	GBD-14-11-5100-28	GBD-14-02-5101-42	GBD-14-11-5100-31	
ii.		Ht. attest load	512	470	516	469	516	469	513	469
iii.	Align .deviation	5	5	6	5	3	4	4	4	
12.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		CMFSK-14-02-122-1100		CMFSK-14-02-122-1100		CMFSK		
	ii.	Primary inner Spring		CMFSK-14-02-138-1101		CMFSK-14-02-138-1101		CMFSK		
	iii.	Primary Damper						KONI		
	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						SGA		
	x.	Lateral Bump stop						GMT		
	xi.	Traction center make						SARITA		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						GMT		
	xiv.	Traction centre elastic						GMT		
	xv.	Secondary rubber pad						TESPAK		
	xvi.	Rubber spring						GMT		
	xvii.	Anti roll bar make						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.	4046	DISPATCH DATE				02.03.2015
2.	Railway	ECR	Type	LS3	Coach No.	15413	
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)	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	GS	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			SAVITRI		
	lii	BODY SIDE DOORS			JBM,SUKATA		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			LP		
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			
			4046	ECR	LS3	15413	12-02-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156132				156133			
	ii.	Frame No.	SCI/FM-112				SCI/FM-110			
	iii.	Bolster No.	3500-P				4509			
	iv.	Axle No.	Z-3060		126784/283		A-2837		A-3234	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	132-11611	036-11607	299-10559	029-63309	040-10582	344-10582	047-10570	328-63302
	vii.	R.B. Nos.	25666	24677	24310	24675	31884	24090	31703	24087
	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-14-02-5101-59	GBD-14-11-5100-23	GBD-14-02-5101-49	GBD-14-11-5100-72	GBD-14-02-5101-33	GBD-14-11-5100-18	GBD-14-02-5101-NIL	GBD-14-11-5100-21	
ii.	Ht. attest load	514	471	512	468	513	472	513	472	
iii.	Align .deviation	7	3	7	4	6	4	6	4	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			CMFSK-14-02		CMFSK-14-02		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							KBI	
	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	
	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.	4044	DISPATCH DATE				03.03.2015
2.	Railway	ECR	Type	LS3	Coach No.	15414	
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	1104			
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	GS	88/87			
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				JBM,SUKATA		
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		



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4044	ECR	LS3	15414	23-02-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156162				156163			
	ii.	Frame No.	SCI-FM-115				FIAT-3783			
	iii.	Bolster No.	4354-GT				4385-VT			
	iv.	Axle No.	A-2881		A-3017		C-4145		C-4188	
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.00	916.00	915.00	915.00
	vi.	Wheel Disc No.	301-11603	309-63301	332-63307	105-63305	178-63307	013-10533	107-63305	225-63305
	vii.	R.B. Nos.	01654	31126	36416	02960	36752	24672	30252	32429
	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-14-7-11	FSK-14-12-27	GBD-14-7-19	FSK-14-12-21	GBD-14-7-80	FSK-14-12-23	GBD-14-7-44	FSK-14-12-30	
ii.	Ht. attest load	510	470	514	471	510	468.5	508	472	
iii.	Align .deviation	7	8	7	6	5	6	5	5	
12.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			FSK-14-2		FSK-14-2		FSK	
	ii.	Primary inner Spring			FSK-14-2		FSK-14-2		FSK	
	iii.	Primary Damper							KONI	
	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.	4031	DISPATCH DATE				05.03.2015
2.	Railway	ECR	Type	LS3	Coach No.	15415	
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)	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	GS	88/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			OVPL		
	iii	BODY SIDE DOORS			SUKATA		
	iv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			PREMIER POLYFILM		
	Vii	LP SHEET			LP		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4031		ECR		LS3		15415		24-02-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156164						156165			
	ii.	Frame No.	SCI/FM-119						SCI/FM-120			
	iii.	Bolster No.	152-GT/ASR						4375-VT			
	iv.	Axle No.	C-4604			B-9748			A-2977		A-3238	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	215-63309	114-63301	201-10583	223-63305	135-63309	015-63309	330-63309	263-10568		
	vii.	R.B. Nos.	30969	02968	32262	02537	02961	29302	36759	30550		
	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-14-07-24	FSK-14-12-25	GBD-14-07-16	FSK-14-12-11	GBD-14-07-34	FSK-14-12-24	GBD-14-07-31	FSK-14-12-28			
ii.	Ht. attest load	515	469	516	470	513	470	512	470			
iii.	Align .deviation	5	6	5	5	7	7	7	7			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			FSK-14-12		FSK-14-12		FSK			
	ii.	Primary inner Spring			FSK-14-12		FSK-14-12		FSK			
	iii.	Primary Damper							KONI			
	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							SGA,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					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4049	DISPATCH DATE				04.03.2015
2.	Railway	ECR	Type	LS3	Coach No.	15412	
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)	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	VIBGYOR	87/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	PREMIER POLYFILM				
	Vii	LP SHEET	LP				
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	
			4049		ECR		LS3		15412		16-02-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156144					156145				
	ii.	Frame No.	FIAT-3796					FIAT-3731				
	iii.	Bolster No.	131-VTC/ASR					4519-GT				
	iv.	Axle No.	C-4717		C-4517			B-9962		A-3170		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	915.50	915.00	915.00	915.00	
	vi.	Wheel Disc No.	303-63302	249-63301	287-63307	300-10533	271-63307	266-11610	239-63302	090-63305		
	vii.	R.B. Nos.	30482	02538	02967	02965	31310	30099	36728	31121		
	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-14-2-68	CMFSK-14-12-17	GBD-14-2-29	CMFSK-14-12-6	GBD-14-2-108	CMFSK-14-12-10	GBD-14-2-10	CMFSK-14-12-02			
ii.	Ht. attest load	513	469.50	516	470	514	470	516	471			
iii.	Align .deviation	5	5	5	5	6	6	6	8			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-14-12			FSK-14-12			FSK	
	ii.	Primary inner Spring			FSK-14-12			FSK-14-12			FSK	
	iii.	Primary Damper									KONI	
	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									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.	4042	DISPATCH DATE				16.02.2015
2.	Railway	ECR	Type	LS3	Coach No.	15401	
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)	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	VIBGYOR	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	JBM, SUKATA				
	iv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	PREMIER/RESPONSIVE				
	Vii	LP SHEET	NK				
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	
			4042		ECR		LS3		15401/C		27-01-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156078						156079			
	ii.	Frame No.	SCI-FM-70						FIAT-3756			
	iii.	Bolster No.	3939-P						4315-VT			
	iv.	Axle No.	B-9901			B-9647			B-9800		RWF-109897	
	v.	Wheel Dia.	916.00	916.00	916.00	916.50	916.50	916.00	917.00	917.00		
	vi.	Wheel Disc No.	199-63305	136-10583	176-10583	354-63301	097-10582	278-51916	050-11611	211-10582		
	vii.	R.B. Nos.	02813	03249	02780	02826	02759	03047	02978	02898		
	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-14-03-161	G-14-03-194	G-14-03-180	G-14-03-171	G-14-03-124	G-14-03-115	G-14-03-087	G-14-03-221			
ii.	Ht. attest load	514	471	515	469	514	469	515	471			
iii.	Align .deviation	4	10	2	7	4	21	5	23			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			CMFSK-14-2			CMFSK-14-2			CMFSK	
	ii.	Primary inner Spring			CMFSK-14-2			CMFSK-14-2			CMFSK	
	iii.	Primary Damper									KONI	
	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									MTC/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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