



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4001	DISPATCH DATE				19.05.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14625	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	86/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAIVELEY			
	iii.	CDTS		ORIENTAL			
	iv.	SEAT & BERTH		SUTLEJ			
	v.	BODY SIDE DOORS		SUKATA			
	vi.	SALOON COMPTT DOORS		NA			
	vii.	VESTIBULE SLIDING DOOR		KALSI			
	viii.	WATER TANKS		RUBICONE			
	ix	UIC VESTIBULE		FRIKMART			
	x	LUGGAGE RACK		HANSPAL			
	XI	FLOOR BOARD		TAYAL			
	XII	PVC		RESPONSIVE			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4001		SWR		LWSCZ		14625		01-04-2015	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156258					156259				
	ii.	Frame No.	ECBT-903					ECBT-901				
	iii.	Bolster No.	4659-P					4616-P				
	iv.	Axle No.	126877/470		125673/479			126688/468		128996/986		
	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.	057-10583	288-10579	199-10568	035-10579	014-10568	209-11596	164-10568	042-10568		
	vii.	R.B. Nos.	03106	02969	03432	02848	02868	02967	03449	03108		
	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.		CMAFJ-14-09-32	CMAFJ-14-05-19	CMAFJ-14-09-64	CMAFJ-14-05-468	CMAFJ-14-09-90	CMAFJ-14-05-19	CMAFJ-14-09-66	CMAFJ-14-05-33		
ii.	Ht. at test load		512	468	512	468	512	468	510	468		
iii.	Align .deviation		10	7	10	6	9	8	10	8		
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			YR-10-10		YR-10-10		YR			
	ii.	Primary inner Spring			BPS-2013		BPS-2013		BPS			
	iii.	Primary Damper			1512,363,1293,446		382,2237,962,2375		GEREP			
	iv.	Secondary damper			292,239		304,293		GEREP			
	v.	Lateral Damper			2803		2805		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							SARITA			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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1.	SHELL No.	4003	DISPATCH DATE				02.06.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.		14626
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	87/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
i.	BRAKE EQUIPMENT						FAIVELEY
iii.	CDTS						NA
iv.	SEAT & BERTH						SUTLEJ
v.	BODY SIDE DOORS						SUKATA
vi.	SALOON COMPTT DOORS						NA
vii.	VESTIBULE SLIDING DOOR						KALSI
viii.	WATER TANKS						RAIL FAB
ix	UIC VESTIBULE						ELASTOMER
x	LUGGAGE RACK						HANSPAL
XI	FLOOR BOARD						TAYAL
XII	PVC						RESPONSIVE
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4003	SW	LWSCZ	14626/C	16-01-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156049				156048			
	ii.	Frame No.	FIAT-3739				FIAT-3695			
	iii.	Bolster No.	4412-VT				4422-VT			
	iv.	Axle No.	O-4078		A-2827		Z-3315		B-9782	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	918.00	918.00	917.50	917.00
	vi.	Wheel Disc No.	007715-00196	07742-00007	051-11605	108-11610	01740-00057	07745-00087	175-62314	228-63314
	vii.	R.B. Nos.	02922	03026	03029	03361	02920	02889	02933	02855
	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.	CMFKK-12-12-3514-150	G-12-8-2942	CMFKK-12-12-3514-165	G-12-8-5383	CMFKK-12-12-3514-168	G-12-8-2797	CMFKK-12-12-3514-167	G-12-8-3155	
ii.	Ht. attest load	512	466	512	467	508	466	508	467	
iii.	Align .deviation	19	22	18	20	16	19	18	20	
12.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-12-6		G-12-6		GF			
	ii.	Primary inner Spring	G-12-5		G-12-5		GF			
	iii.	Primary Damper	22531,22483,22599,22468		22576,22491,22493,22600		KONI			
	iv.	Secondary damper	439,341		215,417		GEREP			
	v.	Lateral Damper	234		310		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	K14008/600,K15049/600, L14025/600,A15018/600		K14006/600,H14031/600 M14010/600,N14012/600		FTI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					GMT,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.	4026	DISPATCH DATE				04.06.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14628	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	CDTS			NA		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date				
			4026	SW	LWSCZ	14628/C	02-04-2015				
12.1	Wheel & Axle Details:		PP Side				NPP Side				
	i.	Bogie No.	156260				156261				
	ii.	Frame No.	FIAT-3743				SCI/FM-136				
	iii.	Bolster No.	4662-P				4644-P				
	iv.	Axle No.	C-4832		B-9724		129385/982		125629/377		
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	915.00	915.00	915.00	915.00	
	vi.	Wheel Disc No.	133-10559	194-63301	360-63301	222-10570	168-63309	255-10570	055-10533	100-10533	
	vii.	R.B. Nos.	03173	03035	04015	03280	01879	02842	00271	01689	
	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.	CMAFJ-0914095 14-78	CMAFJ-0513009 513-94	CMAFJ-0914095 14-94	CMAFJ-0513009 513-96	CMAFJ-0914095 14-79	CMAFJ-051300 9513-61	CMAFJ-091409 514-83	CMAFJ-0513009 513-17		
ii.	Ht. at test load	512	468	512	464	510	468	511	468		
iii.	Align .deviation	15	6	15	12	20	5	20	6		
12.3	Items traceability:										
	Sno.	Item	PP Side Bogie			NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-13F-03R			RSK-13F-03R		RSK			
	ii.	Primary inner Spring	RSK-13F-02R			RSK-13F-02R		RSK			
	iii.	Primary Damper	324,1642,1643,323			485,394,325,313		GEREP			
	iv.	Secondary damper	276,297			378,20		GEREP			
	v.	Lateral Damper	2959			2808		KONI			
	vi.	Yaw Damper						NIL			
	vii.	Brake cylinder & Caliper	A15003/600,N14036/600, A15048/600,N14030/600			A15060/600,A15075/600, A15002/600,L-15023/600		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,SAR ITA			
	xviii.	Ball joint roll link						SARITA			
	xix.	Fork make						EMSON,SAR ITA			
12.4	i.	Modification / Trial (if any):	NIL								
	ii.	Deviations (if any):	NIL								

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1.	SHELL No.	4014	DISPATCH DATE				09.06.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14629	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	87/88		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			NA			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			NA			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			ELASTOMER			
x	LUGGAGE RACK			HANSPAL			
XI	FLOOR BOARD			TAYAL			
XII	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4014		SWR		LWSCZ		14629		13-05-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156351						156361			
	ii.	Frame No.	ECBT-917						SCI/FM-163			
	iii.	Bolster No.	4753-P						4525-GT			
	iv.	Axle No.	114970/369			126514/481			B-9663		125876/477	
	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.	265-10582	065-10570	236-10559	265-10583	183-10583	212-10533	325-10568	318-10579		
	vii.	R.B. Nos.	03597	03859	03882	04000	03871	03977	04542	03969		
	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.	CIAFJ-14-09-96	CIAFJ-14-05-76	CIAFJ-14-09-84	CIAFJ-14-05-65	CIAFJ-14-09-41	CIAFJ-14-05-49	CIAFJ-14-09-45	CIAFJ-14-05-37			
ii.	Ht. at test load	510	469	512	463	512	468	512	468			
iii.	Align .deviation	17	12	18	15	12	13	10	13			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			YR-10-10			YR-10-10			YR	
	ii.	Primary inner Spring			YR-10-11			YR-10-11			YR	
	iii.	Primary Damper			24674,25024,24950,24922			24300,24926,24938,25021			KONI	
	iv.	Secondary damper			855,83			1139,1165			GEREP	
	v.	Lateral Damper			2781			2855			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			C15018/600,C15096/600, C15011/600,M14025/600			D15015/600,C15007/600, D15004/600,C15012/600			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	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4006	DISPATCH DATE				09.06.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14630	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	88/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	CDTS			RAIL FAB		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			CEMCON		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4006	SW	LWSCZ	14630/C	31-03-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156250				156251			
	ii.	Frame No.	FIAT-3899				FIAT-3834			
	iii.	Bolster No.	4624-P				4611-P			
	iv.	Axle No.	126693/468	C-4610		129030/986	106386/628			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	305-10582	212-10579	315-63307	039-61077	149-63301	074-10533	196-63305	055-10583
	vii.	R.B. Nos.	02945	01110	03415	01108	03394	03322	03183	03442
	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.	CHAFJ-9142514-80	CHAFJ-5130015-13-32	CHAFJ-9142514-38	CHAFJ-5130015-13-27	CHAFJ-9142514-16	CHAFJ-513001-513-39	CHAFJ-914251-4-12	CHAFJ-5130015-13-44	
ii.	Ht. at test load	512	468	511	468	512	468	512	468	
iii.	Align .deviation	18	9	20	9	17	16	15	13	
12.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	YR-13-11		YR-13-11		YR			
	ii.	Primary inner Spring	GBD-10-12		BPS-2013		GBD/BPS			
	iii.	Primary Damper	1454,1490,1645,1497		226,027,984,040		GEREP			
	iv.	Secondary damper	234,328		264,359		GEREP			
	v.	Lateral Damper	73		2346		GERP/KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	A15003/600,B15002/600,C15007/600,C15022/600		A15098/600,A15082/600,A15090/600,A15080/600		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					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.	4004	DISPATCH DATE				08.06.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14631	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	87/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				RAIL FAB		
iv.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				JBM		
vi.	SALOON COMPTT DOORS				NA		
vii.	VESTIBULE SLIDING DOOR				KALSI		
viii.	WATER TANKS				RAIL FAB		
ix	UIC VESTIBULE				FRIKMART		
x	LUGGAGE RACK				HANSPAL		
XI	FLOOR BOARD				TAYAL		
XII	PVC				RESPONSIVE		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4004		SW		LWSCZ		14631/C		27-03-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156252						156253			
	ii.	Frame No.	NKH15-4313/3803						FIAT-2727			
	iii.	Bolster No.	4603-P						4605-P			
	iv.	Axle No.	C-4771			B-9725			C-4756		A-3025	
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.00	916.00	915.00	915.00		
	vi.	Wheel Disc No.	171-10582	072-63309	167-63307	077-10570	201-11603	319-10582	217-10579	146-10583		
	vii.	R.B. Nos.	29294	30326	02565	30319	36432	01662	30391	30289		
	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.		CIAFJ-0914-9514-30	CNFJ-0513009513-45	CIAFJ-0914-9514-11	CNFJ-0513009513-72	CIAFJ-0914-9514-34	CNFJ-0513009513-59	CIAFJ-0914-9514-24	CNFJ-0513009513-51		
ii.	Ht. at test load		512	468	512	467	512	467	512	468		
iii.	Align .deviation		15	11	15	12	9	11	12	11		
12.3	Items traceability:											
	Sno.	Item	PP Side Bogie				NPP side Bogie				Make	
	i.	Primary Outer Spring	YR-10-10				YR-10-10				YR	
	ii.	Primary inner Spring	GBD-10-12				GBD-10-12				GBD	
	iii.	Primary Damper	942,1473,1469,489				850,2216,968,985				GEREP	
	iv.	Secondary damper	305,309				206,265				GEREP	
	v.	Lateral Damper	3				85				GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper	N14012/600,C14035/600, A15072/600,L14029/600				A15106/600,C15005/600, A15086/600,C15021/600				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									SGA	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4028	DISPATCH DATE				02.06.2015
2.	Railway	SWR	Type	LWSCZ	Coach No.	14627	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	88/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				NA		
iv.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				SUKATA		
vi.	SALOON COMPTT DOORS				NA		
vii.	VESTIBULE SLIDING DOOR				KALSI		
viii.	WATER TANKS				RAIL FAB		
ix	UIC VESTIBULE				ELASTOMER		
x	LUGGAGE RACK				HANSPAL		
XI	FLOOR BOARD				TAYAL		
XII	PVC				RESPONSIVE		
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4028		SW		LACCW		14627/C		08-04-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156272						156273			
	ii.	Frame No.	FIAT-3893						FIAT-3805			
	iii.	Bolster No.	4593-P						4682-VT			
	iv.	Axle No.	126403/474		127873/987		126426/481		127799/987			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	063-10559	254-10559	104-63301	260-10582	075-10559	291-10568	129-10568	259-10582		
	vii.	R.B. Nos.	30312	02105	02421	30246	30275	30163	02135	30329		
	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.	CMAFJ-14-09-22	CMAFJ-14-05-88	CMAFJ-14-09-4	CMAFJ-14-05-24	CMAFJ-14-09-57	CMAFJ-14-05-52	CMAFJ-14-09-6	CMAFJ-14-05-69			
ii.	Ht. at test load	512	468	511	465	512	467	512	468			
iii.	Align .deviation	10	17	10	15	15	10	15	11			
12.3	Items traceability:											
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make			
	i.	Primary Outer Spring	RSK-14-05			RSK-14-05			RSK			
	ii.	Primary inner Spring	RSK-14-05			RSK-14-05			RSK			
	iii.	Primary Damper	370,371,368,357			354,305,321,391			GEREP			
	iv.	Secondary damper	350,282			435,268			GEREP			
	v.	Lateral Damper	2993			2976			KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper	A15094/600,A15088/600,N14042/600,A15077/600			A15085/600,A15108/600,A15067/600,B15001/600			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							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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