



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5028	DISPATCH DATE				21.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15214	
3.	Booked to		SSE/C&W/SPJ				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	86/89		
	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				JBM	
	iv	WATER TANKS				E C BLADES, MANOJ & SHIVALIK	
	v	FLOOR BOARD				TAYAL	
	vi	PVC FLOORING				RESPONSIVE	
	vii	UIC VESTIBULE				SUNCREAST	
	viii	VESTIBULE SLIDING DOOR				KALSI	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5028		ECR		LSCN		15214		14-09-2015	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156670					156671				
	ii.	Frame No.	FIAT-4298					FIAT-3987				
	iii.	Bolster No.	5009-VT					5074-GT				
	iv.	Axle No.	128072/984		129070/986		128156/984		126366/474			
	v.	Wheel Dia.	915.00	915.00	916.00	916.00	916.00	916.00	916.50	916.50		
	vi.	Wheel Disc No.	6196-00079	6149-00008	6198-00144	6229-00082	6196-00037	6196-00105	6212-00022	6212-00220		
	vii.	R.B. Nos.	30104	23012	01926	03349	23091	02969	02972	02971		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-14-1-579	G-14-12-077	DN-14-1-586	G-14-12-020	DN-14-2-377	G-14-12-120	DN-14-2-383	G-14-12-006			
ii.	Ht. at test load	514	471	514	471	513	471	512	469			
iii.	Align .deviation	9	12	9	12	12	11	12	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-9			G-14-9			GF	
	iii.	Primary Damper			26777,26765,26703,26806			26402,26736,26673,26814			KONI	
	iv.	Secondary damper			5224,5291			5217,5100			KONI	
	v.	Lateral Damper			133			477			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1589/691,1655/691,1537/691,1657/691			1116/691,1230/691,1115/691,1234/691			KBI	
	viii.	Brake Disc									FTI,KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5020	DISPATCH DATE				24.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15213	
3.	Booked to		SSE/C&W/SPJ				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	1103		
	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	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	
	iii	BODY SIDE DOORS				JBM	
	iv	WATER TANKS				E C BLADES, SHIVALIK	
	v	FLOOR BOARD				TAYAL	
	vi	PVC FLOORING				RESPONSIVE	
	vii	UIC VESTIBULE				SUNCREAST	
	viii	VESTIBULE SLIDING DOOR				KALSI	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5020		EC		LSCN		15213		14-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156646						156647			
	ii.	Frame No.	FIAT-4113						FIAT-4272			
	iii.	Bolster No.	5053-GT						4996-VT			
	iv.	Axle No.	126372/474		126622/480		128223/984		125881/477			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.50	916.00		
	vi.	Wheel Disc No.	6229-00020	6213-00174	6191-00155	06149-00058	6213-00046	6213-00003	6232-00185	6191-00010		
	vii.	R.B. Nos.	02060	16531	16759	21533	21167	30597	23309	25133		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-14-3-138	G-14-09-776	DN-14-3-169	G-14-10-762	DN-14-11-1073	G-14-10-700	DN-14-11-1106	G-14-10-893			
ii.	Ht. at test load	514	469	516	471	516	472	516	472			
iii.	Align .deviation	7	10	4	8	10	13	12	14			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	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			26733,26873,26676,26690		26704,26825,26625,26641		KONI			
	iv.	Secondary damper			1334,1350		962,1526		GEREP			
	v.	Lateral Damper			504		383		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			1366/691,1423/691,1367/691,1422/691		1336/691,1439/691,1334/691,1438/691		KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							GMT,MGN			
	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			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5045	DISPATCH DATE				30.09.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15217	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	APEX	85/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SUKATA				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	E C BLADES, KUTEER, MANOJ & SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	SUNCREAST				
	viii	VESTIBULE SLIDING DOOR	KALSI				
	IX	CDTS	RAIL TECH				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5045		ECR		LSCN		15217		17-09-2015	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	156538					156540				
	ii.	Frame No.	SCI-FM-183					ECBT-964-				
	iii.	Bolster No.	4940-VT					4933-VT				
	iv.	Axle No.	126551/481		128099/984		128680/989		114158/374			
	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.	6198-00193	6232-00125	06149-00089	06149-00169	6197-00110	6148-00097	06232-00063	06232-00049		
	vii.	R.B. Nos.	21856	29989	29881	23206	23293	23284	02053	02077		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-14-11-1153	DN-14-10-791	DN-14-11-1157	DN-14-11-732	DN-14-11-1025	DN-14-11-783	DN-14-11-1022	DN-14-11-724			
ii.	Ht. at test load	514	470	515	472	511	471	511	471			
iii.	Align .deviation	19	8	19	12	7	9	7	9			
11.3	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			G-14-3			GBD-14-02			GF, GBD	
	iii.	Primary Damper			25329,25139,25206,25139			25350,25406,25348,25163			KONI	
	iv.	Secondary damper			1289,1279			1160,1129			GEREP	
	v.	Lateral Damper			462			414			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F1506/600,F1535/600,15096/600,F15031/600			F15035/600,F15039/600,F15107/600,F15033/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									MGN	
	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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LSCN-5045



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5025	DISPATCH DATE				01.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15215	
3.	Booked to		SSE/C&W/SPJ				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	1100	1102		
	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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			SAVITRI		
	lii	BODY SIDE DOORS			JBM		
	lv	WATER TANKS			E C BLADES, KUTEER, SHIVALIK		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			SUNCREAST		
	viii	VESTIBULE SLIDING DOOR			KALSI		
	IX	CDTS			RAIL TECH		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5025		ECR		LSCN		15215		15-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156445						156446			
	ii.	Frame No.	FIAT-4050						SCI-FM-156-			
	iii.	Bolster No.	4807-VT						4829-P			
	iv.	Axle No.	128125/984		128006/988		126828/468		127967/988			
	v.	Wheel Dia.	916.00	916.00	916.00	916.50	916.00	916.00	917.00	917.00		
	vi.	Wheel Disc No.	6232-00055	06149-00159	06213-00008	6232-00070	06149-00206	6229-00090	6232-00183	6196-00095		
	vii.	R.B. Nos.	30530	01380	02263	22084	30512	29966	30407	23006		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-14-3-727	DN-14-3-462	DN-14-3-639	DN-14-3-492	DN-14-3-643	DN-14-2-441	DN-14-3-710	DN-14-2-378			
ii.	Ht. at test load	513	468	514	469	515	471	513	469			
iii.	Align .deviation	10	12	7	12	7	11	8	11			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	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			26701,26901,26802,26624			1612,1662,1785,1416			KONI, GEREPA	
	iv.	Secondary damper			1359,1158			1382,1338			GEREP	
	v.	Lateral Damper			82			444			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			015/691,1126/691, 017/691,1127/691			014/691,1129/691, 016/691,1125/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN,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	
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LSCN-5025



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1.	SHELL No.	5019	DISPATCH DATE				17.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15222	
3.	Booked to		SSE/C&W/JYG				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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 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	92/91		
	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				
	iv	WATER TANKS	E C BLADES, MANOJ, KUTEER				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORT				
	viii	VESTIBULE SLIDING DOOR	KALSI				
	IX	CDTS	--				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5019	EC	LSCN	15222/C	29-09-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156721				156720			
	ii.	Frame No.	SCIFM-230				SCI-FM-253			
	iii.	Bolster No.	5031-GT				5134-GT			
	iv.	Axle No.	128603/989	126643/480	128149/984	127789/987				
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	916.00	916.00
	vi.	Wheel Disc No.	6213-00214	6191-00193	06149-00167	6148-00095	6212-00128	6219-00032	6198-00032	06149-00010
	vii.	R.B. Nos.	21679	22936	30420	22946	02250	29855	01311	01482
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	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-14-5-811	G-14-12-005	DN-14-5-821	G-14-12-022	DN-14-2-286	G-14-12-042	DN-14-2-395	G-14-12-049	
ii.	Ht. at test load	516	469	516	470	513	470	515	470	
iii.	Align .deviation	12	10	10	10	10	9	11	9	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-11		G-14-11		GF			
	ii.	Primary inner Spring	G-14-12		G-14-12		GF			
	iii.	Primary Damper	26135,26210,25662,26084		26179,26193,26073,26167		KONI			
	iv.	Secondary damper	902,1205		1254,1207		GEREP			
	v.	Lateral Damper	455		370		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	1221/691,1303/691,1220/691,1302/691		1234/691,1292/691,1235/691,1293/691		KBI			
	viii.	Brake Disc					FTI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					MGN			
	xi.	Traction center make					SARITA			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					SGA,GMT			
	xiv.	Traction centre elastic					MGN,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, EMSON			
11.4	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.	5058	DISPATCH DATE				20.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15224	
3.	Booked to		SSE/C&W/JYG				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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 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		NEROLAC	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				SAVITRI		
lii	BODY SIDE DOORS				JBM		
lv	WATER TANKS				E C BLADES, SHIVALIK, KUTEER		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORT		
viii	VESTIBULE SLIDING DOOR				KALSI		
IX	CDTS				--		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5058		EC		LSCN		15224/C		01-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156447						156448			
	ii.	Frame No.	FIAT-3622						SCI/FM-159			
	iii.	Bolster No.	4827-P						4830-P			
	iv.	Axle No.	127903/987		114691/376		126548/481		114134/374			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	915.00	915.00		
	vi.	Wheel Disc No.	7172-00010	6213-00090	6149-00033	6219-00002	6148-00112	6148-00038	6252-00136	6229-00185		
	vii.	R.B. Nos.	23037	01344	30053	02974	30243	02985	34401	30039		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-14-03-785	DN-14-02-310	DN-14-03-646	DN-14-02-392	DN-14-03-725	DN-14-02-314	DN-14-03-747	DN-14-02-407			
ii.	Ht. at test load	511	470	511	470	515	470	516	471			
iii.	Align .deviation	12	15	9	14	15	8	18	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			26194,25521,25675,25497			25579,26221,25573,25507			KONI	
	iv.	Secondary damper			1322,1307			1283,1292			GEREP	
	v.	Lateral Damper			420			283			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1705/691,1656/691,1703/691,1661/691			1659/691,1785/691,1660/691,1704/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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	
11.4	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.	5047	DISPATCH DATE				13.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15219	
3.	Booked to		SSE/C&W/SPJ				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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		APEX	86/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT					KBI	
li	SEAT & BERTH					SAVITRI	
lii	BODY SIDE DOORS					JBM	
lv	WATER TANKS					E C BLADES, MANOJ, KUTEER	
v	FLOOR BOARD					TAYAL	
vi	PVC FLOORING					RESPONSIVE	
vii	UIC VESTIBULE					ESCORT	
viii	VESTIBULE SLIDING DOOR					KALSI	
IX	CDTS					--	
10.	LP SHEET					PB. LAMINATE	
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5047		EC		LSCN		15219/C		19-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156688						156689			
	ii.	Frame No.	FIAT-4304						SCI-FM-238			
	iii.	Bolster No.	5105-P						5027-VT			
	iv.	Axle No.	A-2956		129065/986		125949/477		128882/990			
	v.	Wheel Dia.	917.50	917.50	917.00	917.00	917.00	917.00	916.50	916.00		
	vi.	Wheel Disc No.	6197-00185	6191-00061	6138-00128	6196-00220	6213-00088	6212-00016	6213-00143	6232-00181		
	vii.	R.B. Nos.	01206	22537	02438	01210	02917	22550	20376	01080		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-14-05-842	DN-14-05-604	DN-14-05-833	DN-14-02-325	DN-14-3-621	DN-14-2-369	DN-14-11-1173	DN-14-05-605			
ii.	Ht. at test load	515	467	513	467	515	470	515	470			
iii.	Align .deviation	10	11	10	6	11	6	11	6			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-11			G-14-11			GF	
	iii.	Primary Damper			25250,25420,25156,25336			25189,25471,25244,25328			KONI	
	iv.	Secondary damper			1172,1161			1259,1379			GEREP	
	v.	Lateral Damper			423			437			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1640/691,1696/691,1641/691,1697/691			1594/691,1636/691,1595/691,1637/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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	
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5053	DISPATCH DATE				12.10.2015
2.	Railway	ECR	Type	LWSCN1	Coach No.	15220	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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		NEROLACK	89/88	
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				JBM		
iv	WATER TANKS				E C BLADES, MANOJ, AMIT, KUTEER		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORT		
viii	VESTIBULE SLIDING DOOR				KALSI		
IX	CDTS				--		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5053		EC		LSCN		15220/C		25-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156680						156681			
	ii.	Frame No.	FM-248						FIAT-3652			
	iii.	Bolster No.	4916-VT						4910-VT			
	iv.	Axle No.	128801/990		125660/479		128705/989		128655/989			
	v.	Wheel Dia.	917.50	917.00	916.00	916.00	918.00	918.00	916.50	916.00		
	vi.	Wheel Disc No.	6232-00034	6196-00183	6213-00217	6198-00197	6191-00065	6191-00127	6219-00196	6191-00089		
	vii.	R.B. Nos.	22370	23308	23117	23345	16843	21712	22373	30379		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-01-14-576	G-12-14-033	DN-05-14-822	G-12-14-036	DN-01-14-480	G-12-14-139	DN-01-14-496	G-12-14-160			
ii.	Ht. at test load	511	470	511	470	516	472	515	472			
iii.	Align .deviation	10	8	11	9	10	9	8	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			25852,25923,25944,25967			25987,25854,25887,25968			KONI	
	iv.	Secondary damper			865,1346			1154,1263			GEREP	
	v.	Lateral Damper			458			435			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1444/691,1717/691,1642/691,1718/691			1620/691,1700/691,1621/691,1689/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

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