



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6025	DISPATCH DATE			17.02.2017
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16160
3.	Booked to	SSE/C&W/GHY				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	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)	SANROK	Fiba Device	NA	
7.	Air Brake Testing:					
	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.	BIOTOILET			ORIENTAL+JSL LIFE STYLE	
	iv.	SEAT & BERTH			SUKATA	
	v.	BODY SIDE DOORS			JVR	
	vi.	SALOON COMPTT DOORS			KALSI	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			MANOJ, (AUX) SHIVALIK(U/S)	
	ix	UIC VESTIBULE			KRP	
	x	LUGGAGE RACK			HANSPAL	
	XI	FLOOR BOARD			TWPL	
	XII	PVC			RESPONSIVE	
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			
			6025	NFR	LWSCZAC	16160	07-12-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	167088				167089			
	ii.	Frame No.	FIAT-5206				FIAT-4828			
	iii.	Bolster No.	6450-GT				6451-GT			
	iv.	Axle No.	R-2418		N-0446		N-5864		P-9570	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	00019-6067	00171-6104	00016-6069	00091-6069	00124-6110	00123-6110	00015-7301	00152-7301
	vii.	R.B. Nos.	98416	98406	94763	98203	94119	93362	94260	93281
	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.	FSK-15-5-28	RSK-16-3-433	FSK-15-5-6	RSK-16-3-709	FSK-15-5-3	RSK-16-3-844	FSK-15-5-9	RSK-16-3-375	
ii.	Ht. at test load	510.50	465	508	466	511.50	467	511	467	
iii.	Align .deviation	7	35	8	39	9	29	10	30	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-11		RSK-15-11		RSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			18,45,16,146		328,111,179,157		GEREP	
	iv.	Secondary damper			555,677		451,623		SV	
	v.	Lateral Damper			589		457		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			16230/600,16107/600 16201/600,16204/600		16015/600,16150/600 16044/600,16145/600		FTI	
	viii.	Brake Disc							KBI,FTI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							EMSON	
	xii.	Traction lever make							AWF	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6033	DISPATCH DATE			15.02.2017	
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16154	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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)	ESCORT	Fiba Device	NA		
7.	Air Brake Testing:						
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	Observed		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	6 Sec		
			All Brake are applied	OK	3.00		
	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	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAVELLY		
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE		
	iv.	SEAT & BERTH			ADVANCE SILICON		
	v.	BODY SIDE DOORS			JVR		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			MANOJ(AUX),AMIT (U/S)		
	ix	UIC VESTIBULE			ESCORT		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
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	
			6033		NFR		LWSCZAC		16154		02-01-2017	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	167162						167163			
	ii.	Frame No.	FIAT-5372						SCI/FM-756			
	iii.	Bolster No.	6486-P						6532-P			
	iv.	Axle No.	R-3142			N-6053			R-3127		N-0747	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.50	916.50	917.00	917.00		
	vi.	Wheel Disc No.	00126-6110	00175-6108	00039-6046	00169-07198	00077-6109	00060-6109	00128-6109	00093-6110		
	vii.	R.B. Nos.	14177	93892	93998	93527	99746	62530	99740	94649		
	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.	RSK-16-6-467	GBD-16-5-224	RSK-16-6-451	GBD-16-5-294	RSK-16-6-831	GBD-16-5-300	RSK-16-6-816	GBD-16-5-195			
ii.	Ht. at test load	509	467	508	465	508	467	508	468			
iii.	Align .deviation	7	11	9	11	9	7	11	7			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			GBD-16-11			GBD-16-11			GBD	
	ii.	Primary inner Spring			L&S-13-2			L&S-12-6			L&S	
	iii.	Primary Damper			433,430,421,473			374,520,481,526			GABRIEL	
	iv.	Secondary damper			726,481			483,793			SV	
	v.	Lateral Damper			0023			0238			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L16033/600,L16053/600 L16030/600,L16256/600			G16295/600,G16268/600 G16296/600,G16192/600			FTI	
	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									MGN	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6037	DISPATCH DATE			17.02.2017
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16158
3.	Booked to	SSE/C&W/GHY				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	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	1100	1105	
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA	
7.	Air Brake Testing:					
	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	85/86	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			FAIVELEY	
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE LTD.	
	iv.	SEAT & BERTH			ADVANCE SILICON	
	v.	BODY SIDE DOORS			JVR	
	vi.	SALOON COMPTT DOORS			KALSI	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			MANOJ,RAIL TECH(AUX) AMIT(U/S)	
	ix	UIC VESTIBULE			ESCORT	
	x	LUGGAGE RACK			HANSPAL	
	XI	FLOOR BOARD			NARBADA	
	XII	PVC			RESPONSIVE	
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			
			6037	NFR	LWSCZAC	16158	17 /02-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	167110				167111			
	ii.	Frame No.	FIAT-5320				FIAT-5352			
	iii.	Bolster No.	6464-GT				6453-GT			
	iv.	Axle No.	R-3361		S-9696		N-0350		R-2812	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00
	vi.	Wheel Disc No.	00007-6047	00165-6129	00110-6045	00029-6129	06526-6QM1	06977-6QJ4	00024-6069	00063-6011
	vii.	R.B. Nos.	81772	78057	97521	99747	93524	94103	81753	97512
	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.	RSK-14-5-156	RSK-14-5-256	RSK-14-5-160	RSK-14-5-180	RSK-14-5-188	RSK-14-5-177	RSK-14-5-189	RSK-14-5-175	
ii.	Ht. at test load	511	467	511	468	511	466	512	467	
iii.	Align .deviation	7	9	8	11	7	12	8	14	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-11		GBD-16-11		GBD	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			489,493,510,522		534,478,098,523		GABRIEL	
	iv.	Secondary damper			0799,0414		0634,0456		SV	
	v.	Lateral Damper			0009		0020		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16297/600,G16299/600 G16195/600,G16200/600		G16252/600,G16256/600 G16242/600,G16243/600		FTI	
	viii.	Brake Disc							FTI,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							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	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.	6037	DISPATCH DATE				17.02.2017
2.	Railway	NFR	Type	LWSCZAC	Coach No.		16158
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1100	1105		
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:						
	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:						
	8.1	PAINT	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
			PU PAINT	GS	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	i.	BRAKE EQUIPMENT				Make FAIVELEY	
	iii.	BIOTOILET				RAIL FAB+JSL LIFE STYLE LTD.	
	iv.	SEAT & BERTH				ADVANCE SILICON	
	v.	BODY SIDE DOORS				JVR	
	vi.	SALOON COMPTT DOORS				KALSI	
	vii.	VESTIBULE SLIDING DOOR				KALSI	
	viii.	WATER TANKS				MANOJ,RAIL TECH(AUX) AMIT(U/S)	
	ix	UIC VESTIBULE				ESCORT	
	x	LUGGAGE RACK				HANSPAL	
	XI	FLOOR BOARD				NARBADA	
	XII	PVC				RESPONSIVE	
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			
			6037	NFR	LWSCZAC	16158	17 /02-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	167110				167111			
	ii.	Frame No.	FIAT-5320				FIAT-5352			
	iii.	Bolster No.	6464-GT				6453-GT			
	iv.	Axle No.	R-3361		S-9696		N-0350		R-2812	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00
	vi.	Wheel Disc No.	00007-6047	00165-6129	00110-6045	00029-6129	06526-6QM1	06977-6QJ4	00024-6069	00063-6011
	vii.	R.B. Nos.	81772	78057	97521	99747	93524	94103	81753	97512
	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.	RSK-14-5-156	RSK-14-5-256	RSK-14-5-160	RSK-14-5-180	RSK-14-5-188	RSK-14-5-177	RSK-14-5-189	RSK-14-5-175	
ii.	Ht. at test load	511	467	511	468	511	466	512	467	
iii.	Align .deviation	7	9	8	11	7	12	8	14	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-11		GBD-16-11		GBD	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			489,493,510,522		534,478,098,523		GABRIEL	
	iv.	Secondary damper			0799,0414		0634,0456		SV	
	v.	Lateral Damper			0009		0020		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16297/600,G16299/600 G16195/600,G16200/600		G16252/600,G16256/600 G16242/600,G16243/600		FTI	
	viii.	Brake Disc							FTI,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							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	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.	6033	DISPATCH DATE			15.02.2017	
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16154	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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)	ESCORT	Fiba Device	NA		
7.	Air Brake Testing:						
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	Observed		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	6 Sec		
			All Brake are applied	OK	3.00		
	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	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAVELLY		
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE		
	iv.	SEAT & BERTH			ADVANCE SILICON		
	v.	BODY SIDE DOORS			JVR		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			MANOJ(AUX),AMIT (U/S)		
	ix	UIC VESTIBULE			ESCORT		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
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	
			6033		NFR		LWSCZAC		16154		02-01-2017	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	167162						167163			
	ii.	Frame No.	FIAT-5372						SCI/FM-756			
	iii.	Bolster No.	6486-P						6532-P			
	iv.	Axle No.	R-3142			N-6053			R-3127		N-0747	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.50	916.50	917.00	917.00		
	vi.	Wheel Disc No.	00126-6110	00175-6108	00039-6046	00169-07198	00077-6109	00060-6109	00128-6109	00093-6110		
	vii.	R.B. Nos.	14177	93892	93998	93527	99746	62530	99740	94649		
	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.	RSK-16-6-467	GBD-16-5-224	RSK-16-6-451	GBD-16-5-294	RSK-16-6-831	GBD-16-5-300	RSK-16-6-816	GBD-16-5-195			
ii.	Ht. at test load	509	467	508	465	508	467	508	468			
iii.	Align .deviation	7	11	9	11	9	7	11	7			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			GBD-16-11			GBD-16-11			GBD	
	ii.	Primary inner Spring			L&S-13-2			L&S-12-6			L&S	
	iii.	Primary Damper			433,430,421,473			374,520,481,526			GABRIEL	
	iv.	Secondary damper			726,481			483,793			SV	
	v.	Lateral Damper			0023			0238			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L16033/600,L16053/600 L16030/600,L16256/600			G16295/600,G16268/600 G16296/600,G16192/600			FTI	
	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									MGN	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	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.	6023	DISPATCH DATE			14.02.2017	
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16152	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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)	SANROK	Fiba Device	NA		
7.	Air Brake Testing:						
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	Observed		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	6 Sec		
			All Brake are applied	OK	3.00		
	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			KBI		
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE		
	iv.	SEAT & BERTH			ADVANCE SILICON		
	v.	BODY SIDE DOORS			JVR		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			AMIT(AUX),AMIT (U/S)		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TWPL		
	XII	PVC			RESPONSIVE		
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	
			6023		NFR		LWSCZAC		16152		04-11-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166965						166969			
	ii.	Frame No.	FM-682						FIAT-5208			
	iii.	Bolster No.	6350-P						6341-P			
	iv.	Axle No.	R-2682			N-6328			N-0285		R-3207	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.50	917.00		
	vi.	Wheel Disc No.	08771-6QJ5	08753-6QJ5	03672-6QK3	01479-6QK1	05990-6QK8	03772-6QJ3	00074-7196	00094-7301		
	vii.	R.B. Nos.	05163	05000	04951	04122	05483	03228	05554	05496		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	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.	AFJ-16-9-45	AFJ-16-7-18	AFJ-16-9-47	AFJ-16-7-46	AFJ-16-9-48	GBD-16-7-32	AFJ-16-9-49	GBD-16-7-43			
ii.	Ht. at test load	511	468	512	468	512	465.50	512	465.50			
iii.	Align .deviation	20	9	20	9	20	10	20	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			RSK-16-5			RSK-16-3			RSK	
	iii.	Primary Damper			4296,4143,4147,4268			4157,4176,4105,4030			KNORR	
	iv.	Secondary damper			0449,308			0316,0239			SV	
	v.	Lateral Damper			0471			0356			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4200/691,4120/691 4207/691,4119/691			4181/691,4137/691 4179/691,4140/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA, 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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6018	DISPATCH DATE			15.02.2017
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16155
3.	Booked to	SSE/C&W/GHY				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	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	1100	1105	
	v)	Buffer/CBC (Make)	SANROK	Fiba Device	NA	
7.	Air Brake Testing:					
	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:					
	8.1	PAINT	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE	
			PU PAINT	GS	86/87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:					
	i.	BRAKE EQUIPMENT			Make KBI	
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE	
	iv.	SEAT & BERTH			ADVANCE SILICON	
	v.	BODY SIDE DOORS			JVR	
	vi.	SALOON COMPTT DOORS			KALSI	
	vii.	VESTIBULE SLIDING DOOR			KALSI	
	viii.	WATER TANKS			MANOJ(AUX),AMIT (U/S)	
	ix	UIC VESTIBULE			KRP	
	x	LUGGAGE RACK			HANSPAL	
	XI	FLOOR BOARD			TWPL	
	XII	PVC			RESPONSIVE	
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			
			6018	NFR	LWSCZAC	16155	03-11-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166972				166973			
	ii.	Frame No.	FIAT-5195				FIAT-5193			
	iii.	Bolster No.	6371-P				6360-P			
	iv.	Axle No.	R-2351		P-2829		P-9561		R-2277	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	08192-6QL6	08573-6QG9	06988-6QJ4	01655-6QH2	03771-6QJ3	00671-6MG6	06736-6QH6	02270-6QH7
	vii.	R.B. Nos.	05508	06213	05339	06115	06403	06205	06193	06161
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	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.	AFJ-16-09-55	FSK-16-07-09	AFJ-16-09-56	FSK-16-07-16	AFJ-16-09-08	FSK-16-07-50	AFJ-16-09-14	FSK-16-07-61	
ii.	Ht. at test load	512	468	511	468	512	463.5	512	465	
iii.	Align .deviation	13	7	14	8	20	9	20	10	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-14-5		RSK-14-5		RSK	
	ii.	Primary inner Spring			RSK-15-6		RSK-15-6		RSK	
	iii.	Primary Damper			3954,4181,4175,4810		4324,4145,4262,4849		KNORR	
	iv.	Secondary damper			0002,0236		0215,0171		SV	
	v.	Lateral Damper			0419		0478		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			4111/691,4171/611 4109/691,4172/691		4269/691,4273/691 4270/691,4272/691		KBI	
	viii.	Brake Disc							FTI,KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							EMSON	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA,MGN	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TESPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	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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1.	SHELL No.	6020	DISPATCH DATE			15.02.2017	
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16156	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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)	SANROK	Fiba Device	NA		
7.	Air Brake Testing:						
	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			FAVELLY		
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE		
	iv.	SEAT & BERTH			ADVANCE SILICON		
	v.	BODY SIDE DOORS			JVR		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			AMIT(AUX),AMIT (U/S)		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
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	
			6020		NFR		LWSCZAC		16156		17-11-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	167025						167024			
	ii.	Frame No.	FM-711						FM-708			
	iii.	Bolster No.	6398-P						6248-GT			
	iv.	Axle No.	K-3061			N-6305			N-6610		R-2315	
	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.	02889-5VJ6	02910-5VJ6	06064-6QK4	00739-6QJ9	02888-5VJ6	03286-6QL4	02887-5VJ6	03281-6QL4		
	vii.	R.B. Nos.	29814	34869	88539	06635	39271	46291	06641	34889		
	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.	AFJ-16-6-29	RSK-16-6-423	AFJ-16-6-04	RSK-16-6-441	AFJ-16-6-35	RSK-16-6-1007	AFJ-16-6-27	RSK-16-6-784			
ii.	Ht. at test load	512	465	512	467	512	468	512	464			
iii.	Align .deviation	15	29	16	30	20	33	20	34			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-4			RSK-14-4			RSK	
	ii.	Primary inner Spring			RSK-14-3			RSK-14-3			RSK	
	iii.	Primary Damper			4019,4308,3837,4234			3919,3917,4192,4190			KNORR	
	iv.	Secondary damper			0417,0436			0474,0467			SV	
	v.	Lateral Damper			0416			0397			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			K16047/600,H16329/600 K16045/600,H16328/600			K16051/600,K16066/600 K16050/600,K16067/600			FTI	
	viii.	Brake Disc									FTI,KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									GMT,SGA	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6038	DISPATCH DATE				17.02.2017
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16157	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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:						
	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	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIOTOILET			RAIL FAB+JSL LIFE STYLE		
	iv.	SEAT & BERTH			ADVANCE SILICON		
	v.	BODY SIDE DOORS			JVR		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			MANOJ(AUX),AMIT(U/S)		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
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			
			6038	NFR	LWSCZAC	16157	03-02-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	176103				176104			
	ii.	Frame No.	FIAT-5346				FIAT-5338			
	iii.	Bolster No.	6620-P				6615-P			
	iv.	Axle No.	R-2924		N-5929		P-9266		N-6324	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	00001-6044	00157-6044	00060-6134	00019-6134	00143-6103	00063-6176	00133-6044	00079-6044
	vii.	R.B. Nos.	63092	97583	98801	94180	86688	60060	61984	88140
	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.	GBD-16-7-010	GBD-16-5-270	GBD-16-7-037	GBD-16-5-210	GBD-16-7-012	GBD-16-5-168	GBD-16-7-81	GBD-16-5-290	
ii.	Ht. at test load	509	468	510	468	511	468	510	467	
iii.	Align .deviation	10	6	11	6	11	10	11	12	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-11-6		GBD-11-6		GBD	
	ii.	Primary inner Spring			RSK-16-03		RSK-16-03		RSK	
	iii.	Primary Damper			36160,36122,36413,36596		36138,36130,36129,36334		KONI	
	iv.	Secondary damper			0745,0712		0792,704		SV	
	v.	Lateral Damper			0052		0054		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			4843/691,4777/691 4845/691,4774/691		4846/691,4776/691 4775/691,4844/691		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							MGN	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAK	
	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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6015	DISPATCH DATE			17.02.2017	
2.	Railway	NFR	Type	LWSCZAC	Coach No.	16159	
3.	Booked to	SSE/C&W/GHY					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1100	1105		
	v)	Buffer/CBC (Make)	SANROK	Fiba Device	NA		
7.	Air Brake Testing:						
	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			FAVELLY		
	iii.	BIOTOILET			RAIL TECH+JSL LIFE STYLE		
	iv.	SEAT & BERTH			SUKATA		
	v.	BODY SIDE DOORS			JVR		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			MANOJ,AMIT(AUX),AMIT(U/S)		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TWPL		
	XII	PVC			RESPONSIVE		
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			
			6015	NFR	LWSCZAC	16159	11-11-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	167004				167005			
	ii.	Frame No.	FM-695				FM-697			
	iii.	Bolster No.	6293-P				6384-P			
	iv.	Axle No.	R-2925		N-0491		R-2707		N-5779	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	02268-6QG7	02267-6QG7	06100-07200	00105-07200	00148-7301	00028-7196	00138-07200	00172-07200
	vii.	R.B. Nos.	06182	05308	04894	05411	05671	33409	05668	38512
	viii.	R.B. Make	TIMKEN		TIMKEN		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.	AFJ-16-9-61	FSK-16-9-68	AFJ-16-9-67	FSK-16-9-01	AFJ-16-9-66	FSK-16-8-13	AFJ-16-9-07	FSK-16-6-052	
ii.	Ht. at test load	512	464.50	512	463	513	463	512	463.50	
iii.	Align .deviation	20	7	20	7	17	9	20	10	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-14-5		RSK-15-10		RSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			4002,3978,3893,4294		4208,3916,4201,4210		KNORR	
	iv.	Secondary damper			0621,0676		0654,0643		SV	
	v.	Lateral Damper			0500		0392		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			K16036/600,K16076/600 K16037/600,K16081/600		K16038/600,K16078/600 K16040/600,K16080/600		FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							EMSON	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TECSPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):					NIL			
	ii.	Deviations (if any):					NIL			