



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5003	DISPATCH DATE				01.12.2015
2.	Railway	SCR	Type	LWSCZ	Coach No.	15605	
3.	Booked to	SSE/C&W/SC					
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)	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	APEX	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			RAIL FAB		
	iv.	SEAT & BERTH			SULEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			ESCORTS		
	x	LUGGAGE RACK			RAIL TECH		
	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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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5003		SC		LWSCZ		15605/C		15-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156741						156742			
	ii.	Frame No.	ECBT-966						SCI/FM-191			
	iii.	Bolster No.	5115-P						4841-VT			
	iv.	Axle No.	126856/470		129088/990		128218/984		129274/982			
	v.	Wheel Dia.	916.00	916.00	916.00	916.50	917.00	917.00	917.00	917.00		
	vi.	Wheel Disc No.	7147-00014	6211-00156	6192-00163	6229-00073	6207-00125	7166-00198	7147-00038	06222-00070		
	vii.	R.B. Nos.	01856	02797	01878	02728	02420	30151	02503	02805		
	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-12-9-2614	DN-12-6-1342	DN-12-9-2837	DN-12-6-1362	DN-12-9-2209	DN-12-12-1422	DN-12-9-2101	DN-13-2-1768			
ii.	Ht. at test load	511	459	511	465	506	466	506	462			
iii.	Align .deviation	13	3	17	3	16	7	18	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-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			25269,25285,25305,25137			25132,25125,25126,25128			KONI	
	iv.	Secondary damper			5884,5568			5829,5729			KONI	
	v.	Lateral Damper			308			110			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1127/691,1203/691,1129/691,1204/691			1130/691,1206/691,1132/691,1305/691			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	
	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.	5001	DISPATCH DATE				03.12.2015
2.	Railway	SCR	Type	LWSCZ	Coach No.	15609	
3.	Booked to	SSE/C&W/SC					
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)	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		APEX	85/86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			KBI			
iii.	CDTS			RAIL FAB			
iv.	SEAT & BERTH			SULEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			NA			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			ESCORTS			
x	LUGGAGE RACK			RAIL TECH			
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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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5001		SCR		LWSCZ		15609/C		09-10-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156749						156733			
	ii.	Frame No.	ECBT-965						FIAT-4326			
	iii.	Bolster No.	5152-GT						5102-P			
	iv.	Axle No.	129366/982		126769/468		126331/474		126893/470			
	v.	Wheel Dia.	917.00	917.00	915.00	915.00	915.00	915.00	916.00	916.00		
	vi.	Wheel Disc No.	6192-00207	6228-00113	6192-00158	6211-00140	6202-00076	6207-00098	06222-00058	6202-00072		
	vii.	R.B. Nos.	34748	01479	17216	01471	02411	02429	02211	29991		
	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-12-7-2805	DN-12-10-1665	DN-12-9-2567	DN-13-2-1850	DN-12-7-1699	DN-10-12-1583	DN-12-6-1488	DN-10-12-1595		
ii.	Ht. at test load		504	467	502	465	511	465	512	465		
iii.	Align .deviation		20	13	22	14	17	15	18	17		
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-2			L&S-13-2			L&S	
	ii.	Primary inner Spring			L&S-13-2			L&S-13-2			L&S	
	iii.	Primary Damper			25421,25843,25604,25680			1228,915,1893,1853			KONI, GERP	
	iv.	Secondary damper			5656,6047			5990,5604			KONI	
	v.	Lateral Damper			457			264			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1297/691,1375/691 1296/691,1371/691			1647/691,1729/691 1649/691,1725/691			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,SGA	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5002	DISPATCH DATE			26.11.2015	
2.	Railway	SCR	Type	LWSCZ	Coach No.	15606	
3.	Booked to	SSE/C&W/SC					
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)	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		APEX	85/87		
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			SULEJ			
v.	BODY SIDE DOORS			JBM			
vi.	SALOON COMPTT DOORS			NA			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			ESCORTS			
x	LUGGAGE RACK			RAIL TECH			
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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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5002	SC	LSCZ	15606/C	19-10-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156779				156780			
	ii.	Frame No.	ECBT-959				FIAT-4135			
	iii.	Bolster No.	5028-VT				5157-GT			
	iv.	Axle No.	129241/982	126653/480	125767/473	125736/473				
	v.	Wheel Dia.	917.00	917.50	917.50	917.50	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	6207-00177	6192-00181	6213-00215	6191-00139	6211-00083	7147-00019	7166-00043	7166-00022
	vii.	R.B. Nos.	02408	33977	02205	33990	03173	03255	22938	03162DN-12-5-
	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-12-5-1490	DN-12-6-1280	DN-12-5-1108	DN-12-6-1512	DN-12-5-1439	DN-12-6-1482	DN-12-5-1489	DN-12-6-1518	
ii.	Ht. at test load	505	461	506	464	504	465	504	461	
iii.	Align .deviation	19	6	17	4	14	8	18	8	
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-14-5			RSK-14-5			RSK	
	iii.	Primary Damper	25444,25426,25307,25298			25304,26226,25351,25441			KONI	
	iv.	Secondary damper	5667,5928			5581,6190			KONI	
	v.	Lateral Damper	18			73			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	15185/600,15024/600,15186/600,15025/600			H15076/600,H15101/600,H15072/600,H15100/600			FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							GMT	
	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							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.	5004	DISPATCH DATE				30.11.2015
2.	Railway	SCR	Type	LWSCZ	Coach No.	15607	
3.	Booked to	SSE/C&W/SC					
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	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			RAIL FAB		
	iv.	SEAT & BERTH			SULEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			NA		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RUBICONE, RAIL FAB		
	ix	UIC VESTIBULE			ESCORTS		
	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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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5004	SC	LWSCZ	15607/C	28-10-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156801				156802			
	ii.	Frame No.	BEC-036				BEC-055			
	iii.	Bolster No.	4552-GT				5187-P			
	iv.	Axle No.	128772/990	106117/630	126761/468	128330/991				
	v.	Wheel Dia.	917.00	917.00	915.00	915.00	915.00	915.00	916.00	916.00
	vi.	Wheel Disc No.	06202-00180	06222-00084	6202-00098	6202-00065	6202-00044	6202-00119	6202-00171	6202-00071
	vii.	R.B. Nos.	21927	02696	06208	30220	39110	30546	39071	30575
	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-12-6-1882	DN-12-10-1702	DN-12-6-1579	DN-12-10-1589	DN-12-6-1578	DN-12-10-1671	DN-12-6-1438	DN-12-10-1746	
ii.	Ht. at test load	509	464	507	466	506	464	504	467	
iii.	Align .deviation	11	14	14	15	14	16	13	15	
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	G-12-6			G-12-6			GF	
	iii.	Primary Damper	25841,25951,25938,25813			26031,26101,25949,26044			KONI	
	iv.	Secondary damper	1312,1434			1361,1419			GEREP	
	v.	Lateral Damper	89			317			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	1314/691,1452/691,1382/691,1655/691			1783/691,1865/691,1781/691,1864/691			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							MGN	
	xiv.	Traction centre elastic							SGA,GMT	
	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							EMSON	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWSCZ-5004