



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6011	DISPATCH DATE				<b>03.08.16</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15503</b>	
3.	Booked to	<b>SSE/C&amp;W/ASPJ</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage	<b>NIL</b>
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 )	<b>SANROK</b>		<b>Fiba Device</b>	<b>NA</b>		
7.	Air Brake Testing:	Description			Specified	Observed	
7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>			6 –10 sec	6 Sec	
		Max Pressure in BC			3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
		All Brake are applied			OK	OK	
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min			No brake application	OK	
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.			Brake must apply	OK	
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>87/87</b>			
8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>					
8.3	INSUALTION	<b>SATISFACTORY</b>					
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT			<b>FAVELLY</b>			
ii	SEAT & BERTH			<b>ARR KAYEE</b>			
lii	BODY SIDE DOORS			<b>JBM</b>			
lv	WATER TANKS			<b>RUBICON,</b>			
v	FLOOR BOARD			<b>TAYAL</b>			
VI	PVC			<b>RESPONSIVE</b>			
Vii	LP SHEET			<b>--</b>			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6011		EC		LGS		15503		25-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166613					166616				
	ii.	<b>Frame No.</b>	FIAT-4979					FIAT-4892				
	iii.	<b>Bolster No.</b>	5930-VT					5950-VT				
	iv.	<b>Axle No.</b>	N-6605		P-9405		N-5715		N-5703			
	v.	<b>Wheel Dia.</b>	916.00	916.00	917.50	917.50	916.00	916.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	13354-00045	13354-00238	13354-00072	13109/00193	13354-00187	13354-00026	13354-00122	13354-00131		
	vii.	<b>R.B. Nos.</b>	01519	01413	01893	02004	02156	01654	02237	01420		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	RSK-16-4-30	GBD-16-6-69	RSK-16-4-035	GBD-16-6-14	RSK-14-5-018	GBD-16-6-44	RSK-14-5-024	GBD-16-6-18			
ii.	<b>Ht. at test load</b>	516	472	516	471	516	472	515	472			
iii.	<b>Align .deviation</b>	4	6	3	4	1	10	3	11			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-15-02			RSK-16-2			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-15-10			RSK	
	iii.	Primary Damper			1458,1457,1460,1551			1609,1562,1732,1626			KNORR	
	iv.	Secondary damper			6,8			20,92			GEREP	
	v.	Lateral Damper			0131			140			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F16187/600,F16212/600 F16084/600,F16213/600			F16167/600,F16187/600 F16164/600,F16190/600			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									GMT	
	xv.	Secondary rubber pad									TESPACK	
	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				



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6012	DISPATCH DATE				03.08.16
2.	Railway	ECR	Type	LS3	Coach No.	15502	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORT	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	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			ARR KAYEE FOAMS		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			--		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6012		EC		LGS		15502/C		05-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166550					166551				
	ii.	<b>Frame No.</b>	FM-575					FIAT-4242				
	iii.	<b>Bolster No.</b>	5894-VT					5643-VT				
	iv.	<b>Axle No.</b>	N-0651		K-6480		N-0909		N-5732			
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.50	916.50	916.00	916.00	917.50	917.00		
	vi.	<b>Wheel Disc No.</b>	07302-00055	07302-00133	7280-00149	7280-00040	7292-00120	7277-00067	7283-00050	7291-00182		
	vii.	<b>R.B. Nos.</b>	04010	03821	03345	05465	03544	02904	05059	05235		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-5-830	RSK-15-4-52	DN-14-5-792	RSK-15-4-71	DN-14-5-818	RSK-15-4-57	DN-14-5-831	RSK-15-4-79			
ii.	<b>Ht. at test load</b>	514	468	514	470	515	471	513	472			
iii.	<b>Align .deviation</b>	8	17	10	21	6	12	7	13			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-15-9			G-14-9			GF	
	iii.	Primary Damper			0878,0757,0847,0731			0860,0778,0670,0780			KNORR	
	iv.	Secondary damper			261,247			71,142			GEREP	
	v.	Lateral Damper			338			368			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3645/691,3597/691 3649/691,3606/691			3147/691,3605/691 3648/691,3598/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									WINLANE	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

LS3 6012



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6013	DISPATCH DATE				04.08.16
2.	Railway	ECR	Type	LS3	Coach No.	15504	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORT	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	ii	SEAT & BERTH			ARR KAYEE FOAMS		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			PL		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6013		EC		LS3		15504/C		07-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166552					166553				
	ii.	<b>Frame No.</b>	FIAT-4968					FIAT-4953				
	iii.	<b>Bolster No.</b>	5896-PS					5895-PS				
	iv.	<b>Axle No.</b>	K-6057		128496/983			N-5797		N-0440		
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.50	916.50	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	13353-00053	13350-00115	13354-00178	13352-00285	13354-00054	13354-00245	13353-00114	13351-00172		
	vii.	<b>R.B. Nos.</b>	35332	30593	35008	31170	33559	83602	39648	22209		
	viii.	<b>R.B. Make</b>	SKF		SKF			SKF		SKF		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	FSK-16-4-02	RSK-15-4-31	FSK-16-4-20	RSK-15-4-77	FSK-16-4-12	RSK-15-4-479	FSK-16-4-01	RSK-15-4-395			
ii.	<b>Ht. at test load</b>	514	472	513	472	514.50	471	516	468			
iii.	<b>Align .deviation</b>	8	14	9	20	9	7	9	9			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
	i.	Primary Outer Spring			G-14-03		G-14-03		GF			
	ii.	Primary inner Spring			G-14-12		G-14-12		GF			
	iii.	Primary Damper			872,640,877,869		873,808,776,831		KNORR			
	iv.	Secondary damper			114,46		053,138		GEREP			
	v.	Lateral Damper			0281		369		KNORR			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			F16193/600,F16220/600 F16142/600,F16217/600		F16185/600,F16215/600 F16183/600,F16214/600		FTI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							GMT			
	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							TESCPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
11.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6014	DISPATCH DATE				03.08.16
2.	Railway	ECR	Type	LS3	Coach No.	15505	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORT	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	li	SEAT & BERTH			RAJENDE DASS		
	lii	BODY SIDE DOORS			JBM		
	lv	WATER TANKS			RUBICON,RAIL FAB		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NK		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6014		ECR		LS3		15505		07-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166554					166555				
	ii.	<b>Frame No.</b>	FIAT-4961					FM-569				
	iii.	<b>Bolster No.</b>	5731-VT					5816-PS				
	iv.	<b>Axle No.</b>	K-6146		N-0535			K-6455		N-0956		
	v.	<b>Wheel Dia.</b>	916.00	916.50	917.00	917.00	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	13351-00181	13352-00045	13351-00066	13350-00209	13350-00077	13350-00136	13350-00212	13352-00311		
	vii.	<b>R.B. Nos.</b>	02276	02273	34375	33506	35741	33480	35685	33461		
	viii.	<b>R.B. Make</b>	SKF		SKF			SKF		SKF		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	FSK-16-04-27	RSK-15-4-184	FSK-16-04-16	RSK-15-4-155	FSK-16-04-9	RSK-15-4-217	FSK-16-04-23	RSK-15-4-247			
ii.	<b>Ht. at test load</b>	514	471	512	468	515	472	516	471			
iii.	<b>Align .deviation</b>	8	7	9	9	10	5	10	6			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-03			G-14-03			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			57,60,54,69			024,047,072,045			GABRAIL	
	iv.	Secondary damper			270,246			29,85			GEREP	
	v.	Lateral Damper			0359			0265			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F16186/600,F16216/600 F16188/600,F16211/600			F16194/600,F16218/600 F16186/600,F16216/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									TESCPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							

LS3 6014





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6017	DISPATCH DATE				05.08.16
2.	Railway	ECR	Type	LS3	Coach No.	15507	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORT	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	ii	SEAT & BERTH			RAJENDE DASS		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			RUBICON,RAIL FAB		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NK		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6017		ECR		LGS		15507		15-06-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166503						166504			
	ii.	<b>Frame No.</b>	FIAT-4894						FM-516			
	iii.	<b>Bolster No.</b>	5839-P						5705-VT			
	iv.	<b>Axle No.</b>	K-5811			K-3452			K-6164		N-0653	
	v.	<b>Wheel Dia.</b>	917.00	916.50	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	7275-00115	7279-00108	7277-00175	7283-00160	7283-00187	7277-00005	7280-00093	7303-00197		
	vii.	<b>R.B. Nos.</b>	05285	05291	03431	03252	22042	22223	22233	34295		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>		
i.	<b>Make &amp; nos.</b>	DN-14-12-1183	RSK-15-04-069	DN-14-12-588	RSK-15-04-078	DN-14-12-1188	RSK-15-04-060	DN-14-12-1704	RSK-15-04-075			
ii.	<b>Ht. at test load</b>	514	472	513	472	510	472	512	471			
iii.	<b>Align .deviation</b>	8	9	9	13	8	6	10	8			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-15-9			G-15-9			GF	
	iii.	Primary Damper			716,678,770,822			907,677,829,664			KNORR	
	iv.	Secondary damper			040,197			206,101			GEREP	
	v.	Lateral Damper			367			361			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									-----	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	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									BHAM	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON, SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

LS3 6017



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6018	DISPATCH DATE				06.08.16
2.	Railway	ECR	Type	LS3	Coach No.	16401	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORT	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			RAJENDE DASS		
	iii	BODY SIDE DOORS			JBM,SUKATA		
	iv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NK		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6018		ECR		LGS		16401		13-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166603						166604			
	ii.	<b>Frame No.</b>	FIAT-4155						FIAT-4467			
	iii.	<b>Bolster No.</b>	5682-PS						5944-VT			
	iv.	<b>Axle No.</b>	Z-3696			N-6116			N-5950		N-5965	
	v.	<b>Wheel Dia.</b>	916.50	917.00	916.50	917.00	917.00	917.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	13351-00221	13351-00260	13350-00239	13354-00206	13351-00166	13354-00153	13350-00178	13352-00181		
	vii.	<b>R.B. Nos.</b>	35511	35076	29832	83633	35341	81042	35085	35754		
	viii.	<b>R.B. Make</b>	SKF			SKF			SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	RSK-16-4-178	GBD-16-6-28	RSK-16-4-232	GBD-16-6-7	RSK-16-4-81	GBD-16-6-45	RSK-16-4-221	GBD-16-6-38			
ii.	<b>Ht. at test load</b>	514	468	515	469	516	472	515	471			
iii.	<b>Align .deviation</b>	9	10	7	5	6	7	7	7			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-15-6			RSK-15-6			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			1323,0022,1359,1247			1330,1394,1265,0078			KNORR	
	iv.	Secondary damper			48,104			54,245			GEREP	
	v.	Lateral Damper			0239			0218			KNORR	
	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									MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

LS3 6018



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6019	DISPATCH DATE				08.08.16
2.	Railway	ECR	Type	LS3	Coach No.	15509	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body		23700+10/-0 mm				
ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (LWSCZDAC)				
iii)	Max. Height From Rail Level		4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
iv)	Buffer/CBC Height		Specified : 1105 +0 /-15 mm		1105	1105	
v)	Buffer/CBC (Make )		ESCORT		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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		VIBGYOR	87/85	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT					KBI	
ii	SEAT & BERTH					RAJENDE DASS	
lii	BODY SIDE DOORS					JBM	
lv	WATER TANKS					RUBICON,RAIL FAB	
v	FLOOR BOARD					TWPL	
VI	PVC					RESPONSIVE	
Vii	LP SHEET					NK	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6019	ECR	LGS	15509	13-07-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166607				166608			
	ii.	Frame No.	FIAT-4475				FIAT-4472			
	iii.	Bolster No.	5648-VT				5890-PS			
	iv.	Axle No.	N-6466		N-6281		N-0472		N-6123	
	v.	Wheel Dia.	916.50	916.00	916.50	917.00	917.00	917.00	916.50	916.00
	vi.	Wheel Disc No.	13109-00049	13109-00295	13350-00012	13350-00196	13350-00219	13109-00281	13354-00239	13109-00214
	vii.	R.B. Nos.	35321	80996	33609	79987	06206	81269	35340	81267
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	RSK-16-4-176	RSK-16-4-498	RSK-16-4-223	RSK-16-4-545	RSK-16-4-214	RSK-16-4-395	RSK-16-4-217	RSK-16-4-532	
ii.	Ht. at test load	515	472	515	472	516	472	515	472	
iii.	Align .deviation	3	2	4	5	9	6	10	6	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-3		RSK-15-10		GF,RSK			
	ii.	Primary inner Spring	G-14-3		RSK-16-2		GF,RSK			
	iii.	Primary Damper	1385,1421,1366,1406		1370,1379,1427,1431		KNORR			
	iv.	Secondary damper	258,066		22,07		GEREP			
	v.	Lateral Damper	261		243		KNORR			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper					-----			
	viii.	Brake Disc					FTI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					GMT,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					TESPACK			
	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							

LS3 6019



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6015	DISPATCH DATE				06.08.16
2.	Railway	ECR	Type	LS3	Coach No.	15508	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORT	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	li	SEAT & BERTH			RAJENDE DASS		
	lii	BODY SIDE DOORS			JBM		
	lv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NK		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6015		ECR		LS3		15508		08-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166582					166585				
	ii.	<b>Frame No.</b>	FIAT-4864					FM-580				
	iii.	<b>Bolster No.</b>	5915-PS					5921-PS				
	iv.	<b>Axle No.</b>	N-0843		N-6772			K-3469		N-5662		
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.50	916..50	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	13350-00008	13352-00151	13352-00494	13352-00288	7283-00066	7283-00009	7283-00069	07298-00099		
	vii.	<b>R.B. Nos.</b>	03650	05347	05069	05331	01857	14977	22252	14969		
	viii.	<b>R.B. Make</b>	SKF		SKF			SKF		SKF		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	FSK-16-4-22	RSK-15-8-126	FSK-16-4-7	RSK-15-8-129	FSK-16-4-3	RSK-15-8-95	FSK-16-4-5	RSK-15-8-96			
ii.	<b>Ht. at test load</b>	513	467	513	468	516	471	515.50	472			
iii.	<b>Align .deviation</b>	9	7	9	7	10	5	8	7			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
	i.	Primary Outer Spring			RSK-15-04		RSK-15-04		RSK			
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK			
	iii.	Primary Damper			1351,1413,1328,1376		1286,1241,1410,1417		KNORR			
	iv.	Secondary damper			46,259		37,12		GEREP			
	v.	Lateral Damper			0183		0227		KNORR			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	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							GMT			
	xv.	Secondary rubber pad							TESPACK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
11.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6016	DISPATCH DATE				<b>05.08.16</b>
2.	Railway	<b>ECR</b>	Type	<b>LS3</b>	Coach No.	<b>15506</b>	
3.	Booked to	<b>SSE/C&amp;W/MGS</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
5.	Carrying Capacity	Seating	100	<b>Sleeping</b>	<b>NIL</b>	Luggage <b>NIL</b>	
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 )	<b>ESCORT</b>	<b>Fiba Device</b>	<b>NA</b>		
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>87/87</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	<b>FAVELLY</b>				
	ii	SEAT & BERTH	<b>RAJENDE DASS</b>				
	lii	BODY SIDE DOORS	<b>JBM</b>				
	lv	WATER TANKS	<b>RUBICON,RAIL FAB</b>				
	v	FLOOR BOARD	<b>TWPL</b>				
	VI	PVC	<b>RESPONSIVE</b>				
	Vii	LP SHEET	<b>NK</b>				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6016		EC		LGS		15506/C		30-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166593						166594			
	ii.	<b>Frame No.</b>	FIAT-4996						FIAT-4238			
	iii.	<b>Bolster No.</b>	5928-PS						5963-PS			
	iv.	<b>Axle No.</b>	N-5714			N-6271			N-6388		N-5733	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.50	916.00		
	vi.	<b>Wheel Disc No.</b>	13350-00151	13350-00031	13354-00154	13354-00120	13350-00203	13350-00024	13350-00050	13350-00201		
	vii.	<b>R.B. Nos.</b>	21816	35058	35059	35653	83574	29684	81965	38570		
	viii.	<b>R.B. Make</b>	SKF			SKF			SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	RSK-16-4-92	RSK-15-10-506	RSK-16-4-229	RSK-15-10-430	RSK-16-4-91	RSK-15-10-508	RSK-16-4-177	RSK-15-10-398			
ii.	<b>Ht. at test load</b>	516	471	515	470	516	472	516	470			
iii.	<b>Align .deviation</b>	6	13	9	14	7	6	8	7			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper			1422,1249,1390,1337			1403,1264,1322,1258			KNORR	
	iv.	Secondary damper			38,39			68,51			GEREP	
	v.	Lateral Damper			116			0210			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F16092/600,F16060/600 F16096/600,F16055/600			F16093/600,F16114/600 F16091/600,F16113/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN,GMT	
	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									GMT	
	xv.	Secondary rubber pad									TESPACK	
	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				

LS3 6016



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6022	DISPATCH DATE				06.08.16
2.	Railway	ECR	Type	LS3	Coach No.	16402	
3.	Booked to	SSE/C&W/MGS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	FAVELLY	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	ii	SEAT & BERTH			RAJENDE DASS		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			RUBICON		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			PL		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6022		EC		LGS		16402/C		04-08-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166675					166676				
	ii.	<b>Frame No.</b>	FIAT-4993					FIAT-4236				
	iii.	<b>Bolster No.</b>	6042-VT					6031-VT				
	iv.	<b>Axle No.</b>	N-5860		N-0328			N-6273		N-5862		
	v.	<b>Wheel Dia.</b>	916.00	916.50	916.50	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	<b>Wheel Disc No.</b>	7271-00156	7275-00167	7271-00159	7275-00135	7279-00073	7283-00025	7271-00014	7283-00135		
	vii.	<b>R.B. Nos.</b>	01369	02310	01090	01252	02411	02316	01843	02632		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	Rsk-16-4-036	GBD-16-6-84	Rsk-16-4-140	GBD-16-6-85	Rsk-16-4-033	GBD-16-6-50	Rsk-16-4-037	GBD-16-6-60			
ii.	<b>Ht. at test load</b>	516	472	514	472	515	470	516	470			
iii.	<b>Align .deviation</b>	6	6	10	6	5	6	5	7			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-16-5			RSK-16-5			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			209,208,140,210			206,142,144,139			GABRIEL	
	iv.	Secondary damper			21,82			256,58			GEREP	
	v.	Lateral Damper			0204			174			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F16267/600,F16247/600 F16100/600,F16076/600			F16099/600,F16080/600 F16101/600,F16079/600			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									GMT	
	xv.	Secondary rubber pad									TESPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

