



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6001	DISPATCH DATE				25.07.16
2.	Railway	ER	Type	LS3	Coach No.	16403	
3.	Booked to	SSE/C&W/HWH					
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 )	SANROCK	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	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	li	SEAT & BERTH			SUKATA		
	lii	BODY SIDE DOORS			JBM		
	lv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	VII	UIC			KRP		
	Vii	LP SHEET			--		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6001		ER		LGS		16403		14-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166605					166606				
	ii.	<b>Frame No.</b>	FIAT-4977					FIAT-4916				
	iii.	<b>Bolster No.</b>	5948-VT					5942-VT				
	iv.	<b>Axle No.</b>	N-6642		N-0945		K-6444		F-9995			
	v.	<b>Wheel Dia.</b>	916.50	916.50	916.00	916.00	916.50	916.00	916.50	916.00		
	vi.	<b>Wheel Disc No.</b>	13354-00058	13350-00013	13354-00242	13350-00184	13352-00083	13352-00236	13354-00057	13350-00057		
	vii.	<b>R.B. Nos.</b>	38559	83622	02697	83722	21567	34863	06200	80888		
	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-16-4-222	RSK-16-4-560	RSK-16-4-201	RSK-16-4-590	RSK-16-4-204	RSK-16-4-465	RSK-16-4-197	RSK-16-4-531			
ii.	<b>Ht. at test load</b>	513	472	514	471	514	470	515	469			
iii.	<b>Align .deviation</b>	4	9	6	10	6	7	6	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			RSK-15-10			G-14-3			RSK,GF	
	ii.	Primary inner Spring			RSK-16-2			G-14-3			RSK,GF	
	iii.	Primary Damper			1409,1244,1325,1416			1405,1307,1408,1369			KNORR	
	iv.	Secondary damper			15,18			71,60			GEREP	
	v.	Lateral Damper			0320			0357			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									-----	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN,GMT	
	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	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6002	DISPATCH DATE				20.07.16
2.	Railway	ER	Type	LS3	Coach No.	16401	
3.	Booked to	SSE/C&W/HWH					
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	SUKATA				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	RUBICON,				
	v	FLOOR BOARD	TAYAL				
	VI	PVC	RESPONSIVE				
	VII	UIC	KRP				
	Vii	LP SHEET	--				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6002		ER		LGS		16401		11-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166548						166549			
	ii.	<b>Frame No.</b>	FM-570						FM-576			
	iii.	<b>Bolster No.</b>	5741-VT						5898-PS			
	iv.	<b>Axle No.</b>	N-6773			K-6603			127998/988		126795/468	
	v.	<b>Wheel Dia.</b>	916.50	916.00	916.00	916.00	916.00	916.00	916.50	916.00	916.50	916.00
	vi.	<b>Wheel Disc No.</b>	7274-00103	7283-00088	7274-00141	07298-00103	06230-00108	6210-00047	6234-00032	06230-00104	6234-00032	06230-00104
	vii.	<b>R.B. Nos.</b>	05695	04660	04001	03997	34770	02976	23154	23139	23154	23139
	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-14-12-1185	RSK-14-5-198	DN-14-12-1103	RSK-14-5-206	DN-14-5-807	RSK-14-5-93	DN-14-5-804	RSK-14-5-83			
ii.	<b>Ht. at test load</b>	510	471	512	472	512	468	510	471			
iii.	<b>Align .deviation</b>	12	4	13	4	10	12	10	12			
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-15-9			GF	
	iii.	Primary Damper			838,782,711,894			723,849,730,699			KNORR	
	iv.	Secondary damper			32,48			61,52			GEREP	
	v.	Lateral Damper			0290			341			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3316/691,3178/691 3313/691,3177/691			3296/691,3164/691 3299/691,3165/691			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									BHAM	
	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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6003	DISPATCH DATE				<b>28.07.16</b>
2.	Railway	ER	Type	<b>LS3</b>	Coach No.	<b>16407</b>	
3.	Booked to	<b>SSE/C&amp;W/HWH</b>					
4.	Tare Weight of Coach	<b>40.665 T</b>					
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	1103	
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>85/87</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>KBI</b>		
li	SEAT & BERTH				<b>SUKATA</b>		
lii	BODY SIDE DOORS				<b>JBM</b>		
lv	WATER TANKS				<b>RUBICON,</b>		
v	FLOOR BOARD				<b>TWPL</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		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6003		ER		LGS		16407		07-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166544						166545			
	ii.	<b>Frame No.</b>	FIAT-4318						FM-573			
	iii.	<b>Bolster No.</b>	5887-PS						5685-VT			
	iv.	<b>Axle No.</b>	K-3768			A-2937			N-5783		N-6314	
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	7297-00097	7305-00050	7283-00008	7305-00184	7298-00102	7277-00191	07302-00188	07277-00087		
	vii.	<b>R.B. Nos.</b>	04658	04419	05060	05223	04285	03342	03448	03070		
	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>	FSK-16-4-17	RSK-15-9-220	FSK-16-4-19	RSK-15-9-201	FSK-16-4-8	RSK-15-9-182	FSK-16-4-04	RSK-15-9-245			
ii.	<b>Ht. at test load</b>	514.50	470	513	469	515.50	468	513	470			
iii.	<b>Align .deviation</b>	10	7	10	7	8	6	8	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-14-5			G-14-3			GF	
	ii.	Primary inner Spring			G-15-9			G-15-9			GF	
	iii.	Primary Damper			705,695,856,867			854,0857,845,724			KNORR	
	iv.	Secondary damper			53,13			216,244			GEREP	
	v.	Lateral Damper			182			0381			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3554/691,3568/691 3555/691,3566/691			3553/691,3563/691 3552/691,3562/691			KBI	
	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									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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6004	DISPATCH DATE				27.07.16
2.	Railway	ER	Type	LS3	Coach No.	16404	
3.	Booked to	SSE/C&W/HWH					
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	1102		
	v)	Buffer/CBC (Make )	SANROK	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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			SUKATA		
	lii	BODY SIDE DOORS			JBM		
	lv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			ORIENTAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			--		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6004		ER		LGS		16404		15-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166609					166610				
	ii.	<b>Frame No.</b>	FIAT-4915					FIAT-4676				
	iii.	<b>Bolster No.</b>	5946-VT					5943-VT				
	iv.	<b>Axle No.</b>	N-6270		N-6561		N-6312		K-6198			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	13350-00014	13350-00015	13350-00043	13350-00155	13354-00010	13350-00221	13354-00050	13354-00048		
	vii.	<b>R.B. Nos.</b>	35756	06652	06630	34556	34967	81266	33493	80273		
	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-16-5-029	GBD-16-6-027	RSK-16-5-230	GBD-16-6-06	RSK-16-5-196	GBD-16-6-035	RSK-16-5-225	GBD-16-6-018			
ii.	<b>Ht. at test load</b>	512	468	513	468	512	468.50	512	470.50			
iii.	<b>Align .deviation</b>	10	12	9	8	8	3	8	5			
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			1303,1400,1300,1292			1419,1341,1412,1257			KNORR	
	iv.	Secondary damper			137,057			014,150			GEREP	
	v.	Lateral Damper			0180			0249			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3764/691,3634/691 3763/691,3694/691			3662/691,3692/691 3762/691,3693/691			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									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					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6005	DISPATCH DATE				<b>22.07.16</b>
2.	Railway	<b>ER</b>	Type	<b>LS3</b>	Coach No.	<b>16402</b>	
3.	Booked to	<b>SSE/C&amp;W/HWH</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	1104	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>87/88</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>SUKATA</b>	
	lii	BODY SIDE DOORS				<b>JBM</b>	
	lv	WATER TANKS				<b>RUBICON,RAIL FAB</b>	
	v	FLOOR BOARD				<b>TAYAL</b>	
	VI	PVC				<b>RESPONSIVE</b>	
	VII	UIC				<b>KRP</b>	
	Vii	LP SHEET				<b>--</b>	
10.							
	10.1	Modification / Trail (if any):				<b>NIL</b>	
	10.2	Deviations if any:				<b>NIL</b>	



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6005	ER	LGS	16402/C	17-06-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166505				166506			
	ii.	Frame No.	FM-514				FIAT-4375			
	iii.	Bolster No.	5632-VT				5696-VT			
	iv.	Axle No.	N-5829		N-0517		N-0348		N-1001	
	v.	Wheel Dia.	916.50	917.00	917.00	917.00	916.00	916.50	917.00	917.00
	vi.	Wheel Disc No.	7305-00187	6204-00215	7276-00092	6204-00021	7277-00198	7277-00158	7291-00120	7298-00018
	vii.	R.B. Nos.	03385	05159	03811	05195	04758	04260	05510	05232
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	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.	DN-14-3-607	RSK-15-4-64	DN-14-1-374	RSK-15-4-31	DN-14-1-290	RSK-15-4-507	DN-14-497	RSK-15-4-16	
ii.	Ht. at test load	515	472	515	472	514	479	514	470	
iii.	Align .deviation	10	13	8	13	9	9	10	10	
11.3	<b>Items traceability:</b>									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		G-14-11		G-14-11		GF		
	ii.	Primary inner Spring		G-15-9		G-15-9		GF		
	iii.	Primary Damper		0634,0916,0805,0671		0714,0921,0920,0784		KNORR		
	iv.	Secondary damper		83,104		92,108		GEREP		
	v.	Lateral Damper		0386		166		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		D16012/600,D16071/600 D16023/600,D16057/600		C16223/600,D16056/600 C16224/600,D16058/600		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						WINLANE		
	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					



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6006	DISPATCH DATE				<b>26.07.16</b>
2.	Railway	<b>ER</b>	Type	<b>LS3</b>	Coach No.	<b>16405</b>	
3.	Booked to	<b>SSE/C&amp;W/HWH</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		1090	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>87/86</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>SUKATA</b>		
lii	BODY SIDE DOORS				<b>JBM</b>		
lv	WATER TANKS				<b>RUBICON,</b>		
v	FLOOR BOARD				<b>TWPL</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	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6006		ER		LGS		16405/C		15-06-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166501						166502			
	ii.	<b>Frame No.</b>	FIAT-4931						FM-526			
	iii.	<b>Bolster No.</b>	5708-VT						5857-PS			
	iv.	<b>Axle No.</b>	K-6457			N-6833			N-5658		K-4022	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	7292-00031	07290-00094	7276-00032	7280-00069	7280-00109	7303-00041	07302-00202	07303-00057		
	vii.	<b>R.B. Nos.</b>	04942	04730	05467	05443	03402	03565	06261	03129		
	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-14-02-467	RSK-15-04-055	DN-14-02-460	RSK-15-04-84	DN-14-04-909	RSK-15-04-053	DN-14-01-486	RSK-15-04-082			
ii.	<b>Ht. at test load</b>	512	470	513	471	515	468	513	469			
iii.	<b>Align .deviation</b>	9	12	9	16	11	13	12	16			
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			773,741,754,852			737,722,819,758			KNORR	
	iv.	Secondary damper			86,70			180,110			GEREP	
	v.	Lateral Damper			303			385			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			D16039/600,D16038/600 D16042/600,D16037/600			D16040/600,D16043/600 D16033/600,D16036/600			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									BHAM	
	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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6007	DISPATCH DATE				27.07.16
2.	Railway	ER	Type	LS3	Coach No.	16406	
3.	Booked to	SSE/C&W/HWH					
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		1104	1105	
v)	Buffer/CBC (Make )		ESORT		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				SUKATA		
lii	BODY SIDE DOORS				JBM		
lv	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	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6007		ER		LSCN		16406/C		09-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166587						166588			
	ii.	<b>Frame No.</b>	FIAT-4983						FIAT-5001			
	iii.	<b>Bolster No.</b>	5932-PS						5922-PS			
	iv.	<b>Axle No.</b>	N-5866			N-1005			N-0381		N-5842	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.50	917.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	13350-00228	13352-00222	13350-00172	13350-00222	13352-00003	13351-00102	13350-00092	13350-00125		
	vii.	<b>R.B. Nos.</b>	35351	39001	34282	39019	01116	05222	01221	01900		
	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>	DN-14-568	RSK-14-4-347	DN-14-1094	RSK-14-4-323	FSK-16-1-024	RSK-14-4-537	FSK-16-1-04	RSK-14-4-449			
ii.	<b>Ht. at test load</b>	516	467	515	468	512	471	513	472			
iii.	<b>Align .deviation</b>	10	5	14	5	8	12	9	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			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper			1392,1397,1381,1423			1308,1346,1426,1348			KNORR	
	iv.	Secondary damper			399,555			0273,0522			KNORR	
	v.	Lateral Damper			241			240			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3577/691,3535-691 3578/691,3537/691			3580/691,3536/691 3579/691,3534/691			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									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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6008	DISPATCH DATE				28.07.16
2.	Railway	ER	Type	LS3	Coach No.	16410	
3.	Booked to	SSE/C&W/SHJ					
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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	ii	SEAT & BERTH			SUKATA		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			LP		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6008		EC		LGS		15502/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>	166529						166530			
	ii.	<b>Frame No.</b>	FIAT-4930						FIAT-4843			
	iii.	<b>Bolster No.</b>	5660-PS						5639-VT			
	iv.	<b>Axle No.</b>	K-3382			K-5877			N-6905		N-6758	
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.50	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	7280-00038	7276-00087	07298-00186	7275-00004	7276-00047	7304-00025	07280-00138	7280-00188		
	vii.	<b>R.B. Nos.</b>	06246	05205	04813	05033	02960	03892	01916	01669		
	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-14-5-815	RSK-15-9-212	DN-16-1-414	RSK-15-9-207	DN-14-2-462	RSK-15-9-176	DN-14-5-806	RSK-15-9-174			
ii.	<b>Ht. at test load</b>	516	472	514	471	514	469	512	470			
iii.	<b>Align .deviation</b>	14	5	17	8	6	54	10	57			
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			0789,0814,0718,0853			0459,0492,0483,0834			KNORR	
	iv.	Secondary damper			6,43			27,32			GEREP	
	v.	Lateral Damper			0364			0262			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			C16221/600,D16016/600 C16222/600,D16060/600			D16027/600,D16033/600 D16048/600,D16026/600			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									BHAM	
	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.	6009	DISPATCH DATE				28.07.16
2.	Railway	ER	Type	LS3	Coach No.	16408	
3.	Booked to	SSE/C&W/HWH					
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	86/87		
	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		
	iii	BODY SIDE DOORS			JBM		
	iv	WATER TANKS			RUBICON,		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			PL		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			6009	ER	LGS	16408/C	22-07-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>				<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166614				166615			
	ii.	<b>Frame No.</b>	FIAT-4998				FIAT-4918			
	iii.	<b>Bolster No.</b>	5952-VT				5945-PS			
	iv.	<b>Axle No.</b>	K-6465		N-6763		P-9321		N-1009	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.00	917.50	917.00	916.50
	vi.	<b>Wheel Disc No.</b>	13350-00089	13352-00306	13354-00117	13350-00119	13350-00041	13352-00005	13354-00230	13353-00090
	vii.	<b>R.B. Nos.</b>	01178	01310	03702	03980	03290	01318	01365	02540
	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-16-4-042	GBD-16-6-20	RSK-16-4-050	GBD-16-6-46	RSK-14-5-046	GBD-16-6-05	RSK-14-5-070	GBD-16-6-29	
ii.	<b>Ht. at test load</b>	513	471.50	514	472	516	472	516	471	
iii.	<b>Align .deviation</b>	6	8	7	12	7	11	9	12	
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		1430,1433,1437,1277		1438,1357,1365,1364		KNORR		
	iv.	Secondary damper		135,64		49,41		GEREP		
	v.	Lateral Damper		216		328		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		3057/691,3396/691 3868/691,3595/691		3054/691,3626/691 3031/61,3603/691		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						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.	<b>Modification / Trial (if any):</b>		NIL						
	ii.	<b>Deviations (if any):</b>		NIL						



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6010	DISPATCH DATE				<b>28.07.16</b>
2.	Railway	<b>ER</b>	Type	<b>LS3</b>	Coach No.	<b>16409</b>	
3.	Booked to	<b>SSE/C&amp;W/HWH</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		1095	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>88/87</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>TWPL</b>			
VI	PVC			<b>RESPONSIVE</b>			
Vii	LP SHEET			<b>PL</b>			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6010		ER		LS3		16409/C		08-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166583					166584				
	ii.	<b>Frame No.</b>	FM-579					FM-577				
	iii.	<b>Bolster No.</b>	5918-PS					5923-PS				
	iv.	<b>Axle No.</b>	N-5760		N-6444		N-0300		N-0980			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	13350-00162	13350-00131	13350-00096	13350-00084	13354-00118	13354-00063	13354-00254	13354-00244		
	vii.	<b>R.B. Nos.</b>	06106	06667	83591	22142	33928	02282	33935	33924		
	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-16-4-13	RSK-15-8-142	FSK-16-4-14	RSK-15-8-134	FSK-16-4-10	RSK-15-8-163	FSK-16-4-6	RSK-15-8-128			
ii.	<b>Ht. at test load</b>	513.50	471	515	470	512	467	514	471			
iii.	<b>Align .deviation</b>	10	14	9	12	9	7	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			RSK-15-04		RSK-15-04		RSK			
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK			
	iii.	Primary Damper			1374,1336,1296,1362		1444,1310,1293,1320		KNORR			
	iv.	Secondary damper			032,033		0031,0034		KNORR			
	v.	Lateral Damper			0133		0334		KNORR			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			E16133/600,F16103/600 F16131/600,F16107/600		F16119/600,F16051/600 F16110/600,F16054/600		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							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					

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