



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6054	DISPATCH DATE				18.03.2017
2.	Railway	SER	Type	LWLRRM(HM)	Coach No.	168856	
3.	Booked to	SSE/C&W/SRC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <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	APEX	85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			RAIL TECH		
	iv.	SEATS/S&B			AAR KAY FOAMS		
	v.	BODY SIDE DOOR			SUKATA		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			CP/JBM		
	viii.	WATER TANKS			AMIT & MANOJ		
	ix	FUEL TANK			SHIVALIK		
	x	UIC VESTIBULE			ESCORTS		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONISVE		
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>	
			6054		SER		LWLRRM		168856		17-01-2017	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>LPC-I PP Side(Guard )</b>					<b>LPC-II NPP Side (Non Guard )</b>				
	i.	<b>Bogie No.</b>	176038					176037				
	ii.	<b>Frame No.</b>	SCI/FM-734					SCI/FM-674				
	iii.	<b>Bolster No.</b>	6472-P					6573-GT				
	iv.	<b>Axle No.</b>	N-6286		S-1781			P-9663		S-2831		
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00		
	vi.	<b>Wheel Disc No.</b>	00193-6203	00080-6069	00006-6069	00196-6203	00157-6069	00194-6203	00048-6014	00049-6066		
	vii.	<b>R.B. Nos.</b>	22281	33689	35073	34044	86201	86203	34855	29828		
	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>	G-15-9-141	G-15-9-007	G-15-9-171	G-15-9-093	G-15-9-216	G-15-9-117	G-15-9-180	G-15-9-106			
ii.	<b>Ht. at test load</b>	511	465	512	467	515	471	515	470			
iii.	<b>Align .deviation</b>	7	9	6	8	18	4	18	2			
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			L&S-15-12			L&S-15-12			L&S	
	ii.	Primary inner Spring			L&S-15-11			L&S-15-11			L&S	
	iii.	Primary Damper			36500,36432,36449,35602			36482,36506,36461,36459			KONI	
	iv.	Secondary damper			0300,0279			0310,0330			SV	
	v.	Lateral Damper			0297			0296			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			5179/261,L0360/260 5178/261,K7064/260			5177/261,5055/261 5180/261,5056/261			KBI	
	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									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									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.	6053	DISPATCH DATE			18.03.2017	
2.	Railway	SER	Type	LWLRRM(HM)	Coach No.	168855	
3.	Booked to	SSE/C&W/SRC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <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	APEX	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 TECH				
	iv.	SEATS/S&B	AAR KAY FOAMS				
	v.	BODY SIDE DOOR	SUKATA				
	vi.	VESTIBULE SLIDING DOOR	KALSI				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/JBM				
	viii.	WATER TANKS	AMIT & MANOJ				
	ix	FUEL TANK	GAURAV				
	x	UIC VESTIBULE	ESCORTS				
	XI	FLOOR BOARD	NARBADA				
	XII	PVC	RESPONISVE				
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>	
			6053		SER		LWLRRM		168855		20-01-2017	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>LPC-I PP Side(Guard )</b>					<b>LPC-II NPP Side (Non Guard )</b>				
	i.	<b>Bogie No.</b>	176057					176058				
	ii.	<b>Frame No.</b>	FIAT-5366					FIAT-5333				
	iii.	<b>Bolster No.</b>	6585-P					6580-GT				
	iv.	<b>Axle No.</b>	R-3656		N-0617			C-4429		N-6769		
	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>	00069-6219	00138-6106	00195-6198	00179-6217	00094-6216	00132-6203	00088-6067	00074-6066		
	vii.	<b>R.B. Nos.</b>	03743	00932	01289	03749	22217	39802	33665	99819		
	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>	G-15-9-176	G-15-9-010	G-15-9-163	G-15-9-021	RSK-16-10-294	RSK-16-7-575	RSK-16-10-286	RSK-16-7-580			
ii.	<b>Ht. at test load</b>	511	467	511	466	514	468	515	470			
iii.	<b>Align .deviation</b>	5	13	4	13	3	24	3	25			
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			L&S-12-05			L&S-12-05			L&S	
ii.		Primary inner Spring			L&S-15-11			L&S-15-11			L&S	
iii.		Primary Damper			36447,36013,36060,35925			36055,35948,35623,35526			KONI	
iv.		Secondary damper			0020,0349			0025,0398			SV	
v.		Lateral Damper			0208			0300			SV	
vi.		Yaw Damper									NIL	
vii.		Brake cylinder & Caliper			5362/261,L0353/260 5364/261,L0351/260			5360/261,5202/261 5363/261,5205/261			KBI	
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									SGA	
xiv.		Traction centre elastic									SGA	
xv.		Secondary rubber pad									TECSPAK	
xvi.		Rubber spring									GMT	
xvii.		Anti roll bar make									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				

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6051	DISPATCH DATE			18.03.2017	
2.	Railway	SER	Type	LWLRRM(HM)	Coach No.	168854	
3.	Booked to	SSE/C&W/SRC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105			
v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA			
7.	Air Brake Testing:		Description	Specified	Observed		
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm <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	APEX	85		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		KBI				
iii.	CDTS		RAIL TECH				
iv.	SEATS/S&B		AAR KAY FOAMS				
v.	BODY SIDE DOOR		JVR, SUKATA				
vi.	VESTIBULE SLIDING DOOR		KALSI				
vii.	CREW-GEN & GUARD ROOM DOOR		JBM/CP				
viii.	WATER TANKS		AMIT & MANOJ				
ix	FUEL TANK		GAURAV				
x	UIC VESTIBULE		ESCORTS				
XI	FLOOR BOARD		NARBADA				
XII	PVC		RESPONISVE				
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6051	SE	LWLRRM	168854/C	-01-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-I PP Side(Guard )				LPC-II NPP Side (Non Guard )			
	i.	Bogie No.	176034				176033			
	ii.	Frame No.	SCI/FM-737				SCI/FM-759			
	iii.	Bolster No.	6559-P				6561-P			
	iv.	Axle No.	R-2727		S-9940		S-1762		R-2828	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00098-6132	00110-6133	00058-6046	00010-6066	00162-6046	00120-6069	00039-6047	00163-6105
	vii.	R.B. Nos.	93549	88535	87677	82170	81418	88510	79835	87399
	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.	GBD-16-11-2	RSK-16-4-295	GBD-16-11-7	RSK-16-4-118	G-15-9-193	G-15-9-036	G-15-9-284	G-15-9-111	
ii.	Ht. at test load	511	466	511	468	512	471	513	469	
iii.	Align .deviation	10	13	10	13	12	5	15	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			GBD-16-8		GBD-16-8		GBD	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			350,457,347,475		35632,35970,35965,35704		GABRIEL, KONI	
	iv.	Secondary damper			0354,0234		0325,0332		SV	
	v.	Lateral Damper			0049		0522		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			5175/261,L0358/260 5174/261,L0356/260		5273/261,5233/261 5276/261,5254/261		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							SGA,AWF	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA, EMSON	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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