



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4024	DISPATCH DATE			28.11.2014
2.	Railway	NR	Type	LWLRRM	Coach No.	13861
3.	Booked to	SSE/C&W/NDLS				
4.	Tare Weight of Coach	53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage
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	GS	86	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			FAIVELEY		
iii.	CDTS			STONE INDIA		
iv.	SEATS/S&B			AMIR CHAND		
v.	BODY SIDE DOOR			JBM		
vi.	VESTIBULE SLIDING DOOR			JBM		
vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM		
viii.	WATER TANKS			AMIT & SHIVALIK		
ix	FUEL TANK			GAURAV		
x	UIC VESTIBULE			CEMCON		
XI	FLOOR BOARD			TAYAL		
XII	PVC			RESPONSIVE		
10.						
10.1	Modification / Trail (if any):				NIL	
10.2	Deviations if any:				NIL	



12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4024		NR		LWLRRM		13861		08-11-2014	
12.1	<b>Wheel &amp; Axle Details:</b>		<b>LPC-1 PP Side(Guard )</b>					<b>LPC-II NPP Side (Non guard )</b>				
	i.	<b>Bogie No.</b>	146931					146932				
	ii.	<b>Frame No.</b>	ECBT-877					ECBT-881				
	iii.	<b>Bolster No.</b>	4282-P					4287-P				
	iv.	<b>Axle No.</b>	129140/992		Z-3722		RWF-110057		Z-3883			
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.00	917.00	917.00	918.00	918.00		
	vi.	<b>Wheel Disc No.</b>	155-10579	166-11603	347-10574	308-10579	094-61077	037-10568	099-61077	118-10568		
	vii.	<b>R.B. Nos.</b>	02398	30604	32546	30594	31889	01449	36426	30592		
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	<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-13-5-049	G-13-5-189	G-13-5-095	G-13-5-185	CMBGD-14-01-836	G-12-9-353	CMBGD-14-01-836	G-12-9-368			
ii.	<b>Ht. attest load</b>	512	467	511	467	512	469	514	470			
iii.	<b>Align .deviation</b>	11	13	10	12	3	7	6	10			
12.3	<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-12-5		L&S-12-5		L&S			
	ii.	Primary inner Spring			L&S-13-2		L&S-12-5		L&S			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							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							GMT			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					



## ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4017	DISPATCH DATE				04.12.2014
2.	Railway	NR	Type	LWLRRM	Coach No.	143856	
3.	Booked to	SSE/C&W/NDLS					
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	GS	85		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		KBI				
iii.	CDTS		AMIT				
iv.	SEATS/S&B		GANDHI				
v.	BODY SIDE DOOR		JBM				
vi.	VESTIBULE SLIDING DOOR		JBM				
vii.	CREW-GEN & GUARD ROOM DOOR		JBM/JBM				
viii.	WATER TANKS		SHIVALIK				
ix	FUEL TANK		OMAX				
x	UIC VESTIBULE		KRP				
XI	FLOOR BOARD		TAYAL				
XII	PVC		RESPONSIVE				
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



12.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4017		NR		LWLRRM		143856/C		28-8-2014	
12.1	<b>Wheel &amp; Axle Details:</b>		<b>LPC-1 PP Side(Guard )</b>					<b>LPC-II NPP Side (Non guard )</b>				
	i.	<b>Bogie No.</b>	146743					146744				
	ii.	<b>Frame No.</b>	FIAT-3386					FIAT-3376				
	iii.	<b>Bolster No.</b>	4125-BT					4100-GT				
	iv.	<b>Axle No.</b>	W-4504		RWF-108919			106501/628		028072/990		
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	293-51912	076-51916	028-10563	268-11600	334-11607	193-11600	120-11611	143-10559		
	vii.	<b>R.B. Nos.</b>	00296	00081	00003	05900	00538	00486	36098	36295		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	<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>	G13-4-112	G-13-4-064	G-13-4-051	G-13-4-147	G-13-4-851	G-13-4-204	G-13-4-839	G-13-4-355			
ii.	<b>Ht. attest load</b>	511	467	511	467	513	469	511	470			
iii.	<b>Align .deviation</b>	17	17	13	14	17	12	19	13			
12.3	<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-05-12		L&S-05-12		L&S			
	ii.	Primary inner Spring			G12-5		G-12-5		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							SGA			
	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							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					