



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4005	DISPATCH DATE			<b>5.7.2014</b>	
2.	Railway	NF	Type	<b>LWCBAC</b>	Coach No.	<b>14802</b>	
3.	Booked to	<b>SSE/C&amp;W/GHY</b>					
4.	Tare Weight of Coach	<b>40.9 T</b>					
5.	Carrying Capacity	Seating	NIL	<b>Sleeping</b>	NIL	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	1100		
v)	Buffer/CBC (Make )	<b>ESCORTS</b>		<b>Fiba Device</b>	<b>NIL</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		3.80 ± 0.15 Kg/cm <sup>2</sup>		3.80
			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>85.5/86.5</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>
ii.	CDTS/ BIO TOILET						<b>AMIT</b>
iii.	SEATS/ BERTHS						<b>AAR KAY FOAMS</b>
iv.	BODY SIDE DOOR						<b>JBM</b>
v.	VESTIBULE SLIDING DOOR						<b>JBM</b>
vi.	SALOON DOOR						<b>KALSI</b>
vii.	WATER TANKS						<b>E C BLADE,AMIT &amp; SHIVALIK</b>
viii.	UIC VESTIBULE						<b>KRP</b>
ix	<b>FLOOR BOARD</b>						<b>TAYAL</b>
x	<b>PVC FLOORING</b>						<b>RESPONSIVE</b>
10.							
10.1	Modification / Trail (if any):						NIL
10.2	Deviations if any:						NIL



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4005		NF		LWCBAC		14802/C		14-05-14	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146060						146365			
	ii.	Frame No.	FIAT-2480						FIAT-2839			
	iii.	Bolster No.	3000-P						178-HEI			
	iv.	Axle No.	RWF-110170		RWF-109648		W-4694		RWF-110641			
	v.	Wheel Dia.	916.50	916.50	918.00	918.00	916.00	916.00	917.00	916.50		
	vi.	Wheel Disc No.	049-63301	304-63301	244-51912	186-51916	146-51912	097-51915	126-51912	301-51912		
	vii.	R.B. Nos.	92170	92176	06906	77321	92194	92200	06881	77302		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	DN-13-01-2927	G-13-05-4827	DN-12-12-1980	G-13-05-5034	DN-03-12-128	G-4-13-5183	DN-3-12-3192	G-4-13-5174			
ii.	Ht. attest load	505	466	504	467	503	465	505	464			
iii.	Align .deviation	19	7	22	6	19	19	19	19			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-02-13		L&S-02-13		L&S			
	ii.	Primary inner Spring			L&S-05-12		L&S-05-12		L&S			
	iii.	Primary Damper							SACHS			
	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							SGA			
	xiv.	Traction centre elastic							GMT			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							SARITA			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	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.	4006	DISPATCH DATE			<b>5.7.2014</b>	
2.	Railway	NF	Type	<b>LWCBAC</b>	Coach No.	<b>14801</b>	
3.	Booked to	<b>SSE/C&amp;W/GHY</b>					
4.	Tare Weight of Coach	<b>40.9 T</b>					
5.	Carrying Capacity	Seating	NIL	<b>Sleeping</b>	NIL	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>ESCORTS</b>		<b>Fiba Device</b>	<b>NIL</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		3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80		
		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>86/87</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>FAIVELEY</b>			
ii.	CDTS/ BIO TOILET			<b>AMIT</b>			
iii.	SEATS/ BERTHS			<b>AAR KAY FOAMS</b>			
iv.	BODY SIDE DOOR			<b>JBM</b>			
v.	VESTIBULE SLIDING DOOR			<b>JBM</b>			
vi.	SALOON DOOR			<b>KALSI</b>			
vii.	WATER TANKS			<b>E C BLADE,AMIT &amp; SHIVALIK</b>			
viii.	UIC VESTIBULE			<b>KRP</b>			
ix	<b>FLOOR BOARD</b>			<b>TAYAL</b>			
x	<b>PVC FLOORING</b>			<b>RESPONSIVE</b>			
10.							
10.1	Modification / Trail (if any):			NIL			
10.2	Deviations if any:			NIL			



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12.	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date					
		4006	NF	LWBAC	14801	17-5-14					
12.1	Wheel & Axle Details:	PP Side					NPP Side				
	i.	Bogie No.	146448					146449			
	ii.	Frame No.	FIAT-3011					FIAT-3158			
	iii.	Bolster No.	3740-P					3755-VT			
	iv.	Axle No.	RWF-109020		RWF-109770		W-4590		W-4608		
	v.	Wheel Dia.	915.00	915.00	915.50	915.50	915.00	915.00	915.00	915.00	
	vi.	Wheel Disc No.	038-63307	041-63302	010-63305	293-63307	128-51916	085-51908	225-63309	181-62321	
	vii.	R.B. Nos.	35958	06977	12559	35928	07359	07847	09298	91430	
	viii.	R.B. Make	SKF		SKF		SKF		SKF		
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
12.2	<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.	BPS-2013-094	BPS-2013-247	BPS-2013-113	BPS-2013-075	BPS-2013-021	BPS-2013-135	BPS-2013-102	BPS-2013-051		
ii.	Ht. attest load	507	463	507	468	507	467	507	468		
iii.	Align .deviation	6	31	8	28	13	15	16	14		
12.3	<b>Items traceability:</b>										
	Sno.	Item	PP Side Bogie			NPP side Bogie		Make			
	i.	Primary Outer Spring	BPS-2013			BPS-2013		BPS			
	ii.	Primary inner Spring	BPS-2013			BPS-2013		BPS			
	iii.	Primary Damper						GEREP			
	iv.	Secondary damper						GEREP			
	v.	Lateral Damper						SACHS			
	vi.	Yaw Damper						NIL			
	vii.	Brake cylinder & Caliper						FTI			
	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						SGA			
	xiv.	Traction centre elastic						GMT			
	xv.	Secondary rubber pad						TESPAK			
	xvi.	Rubber spring						GMT			
	xvii.	Anti roll bar make						SARITA			
	xviii.	Ball joint roll link						SARITA			
	xix.	Fork make						EMSON			
12.4	i.	Modification / Trial (if any):	NIL								
	ii.	Deviations (if any):	NIL								