



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5021	DISPATCH DATE				13.11.2015
2.	Railway	NER	Type	LWLRRM	Coach No.		14868
3.	Booked to			SSE/C&W/GKP			
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		1102	1104	
	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		VIBGYOR	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				KBI	
	iii.	CDTS				AIR FLOW	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				CP/CP	
	viii.	WATER TANKS				E C BLADES & MANOJ	
	ix	FUEL TANK				GAURAV	
	x	UIC VESTIBULE				ESCORTS	
	XI	FLOOR BOARD				TAYAL	
	XII	PVC				RESPONSIVE	
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	
			5021		NER		LWLRRM		14868		24-10-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )					LPC-II NPP Side (Non guard )				
	i.	Bogie No.	156766					156765				
	ii.	Frame No.	FIAT-4310					SCI/FM-251				
	iii.	Bolster No.	5166-VT					5101-P				
	iv.	Axle No.	126053/475		128799/990		126518/481		128325/991			
	v.	Wheel Dia.	915.00	915.00	915.50	915.00	916.50	916.00	915.00	915.00		
	vi.	Wheel Disc No.	7166-00137	7160-00172	6207-00119	6222-00014	7166-00126	6211-00054	6228-00185	7166-00004		
	vii.	R.B. Nos.	01678	35267	02741	38515	34359	34377	01174	01439		
	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.	CMGBD-15-6-6	G13-5-167	CMGBD-15-6-7	G13-5-177	CMAFJ-15-5-8	DN-10-12-247	CMAFJ-15-5-24	DN-10-12-287			
ii.	Ht. at test load	508	467	508	467	515	467	513	467			
iii.	Align .deviation	10	15	11	15	8	11	8	10			
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			FSK-15-6		FSK-15-6		FSK			
	ii.	Primary inner Spring			G-15-3		G-15-3		GF			
	iii.	Primary Damper			26529,26495,26558,26512		26525,26313,26502,26538		KONI			
	iv.	Secondary damper			5437,4988		479,1449		KONI,GERE P			
	v.	Lateral Damper			240		409		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			J5263/261,J3524/260, J5210/261,J5325/260		J5231/261,J3237/261, J5232/261,J3238/261		KBI			
	viii.	Brake Disc							FTI			
	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							SGA			
	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			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LPC-5021



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5031	DISPATCH DATE			21.11.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	14869
3.	Booked to	SSE/C&W/GKP				
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		VIBGYOR	86
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
i.	BRAKE EQUIPMENT				KBI	
iii.	CDTS				AIR FLOW	
iv.	SEATS/S&B				AMIR CHAND	
v.	BODY SIDE DOOR				JBM, SUKATA	
vi.	VESTIBULE SLIDING DOOR				HP	
vii.	CREW-GEN & GUARD ROOM DOOR				CP/CP	
viii.	WATER TANKS				SHIVALIK,KUTEER,GAURAV	
ix	FUEL TANK				GAURAV	
x	UIC VESTIBULE				ESCORTS	
XI	FLOOR BOARD				NARBADA	
XII	PVC				RESPONSIVE	
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			
			5031	NE	LWLRRM	14869/C	29-10-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		LPC-1 PP Side(Guard )				LPC-II NPP Side (Non guard )			
	i.	Bogie No.	156696				156697			
	ii.	Frame No.	FIAT-3933				FIAT-4188			
	iii.	Bolster No.	5083-GT				5112-P			
	iv.	Axle No.	129336/982	129247/982	128387/991	129316/982				
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	915.00	915.00	915.00	915.00
	vi.	Wheel Disc No.	6191-00011	7150-00154	7150-00015	6211-00009	6222-00025	6228-00020	7166-00202	6222-00124
	vii.	R.B. Nos.	29725	39074	39103	30560	30120	39070	33991	39108
	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.	CMGBD-15-01-11	BPS-2015-2	CMGBD-15-01-1	BPS-2015-16	CMFSK-15-05-3	DN-12-10-271	CMFSK-15-05-7	DN-12-10-230	
ii.	Ht. at test load	507.50	465	508	464	513.50	465	515	467	
iii.	Align .deviation	10	3.50	11	6	9	7	12	8	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-12-5		L&S-12-5		L&S			
	ii.	Primary inner Spring	G-15-3		G-15-3		GF			
	iii.	Primary Damper	25940,25917,25880,26030		25907,26042,25934,25931		KONI			
	iv.	Secondary damper	1566,787		1450,483		GEREP			
	v.	Lateral Damper	219		329		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	J3252/261,J3337/260, J3251/261,J3336/260		J3251/261,J5343/261, J3253/261,J5342/261		KBI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					GMT			
	x.	Lateral Bump stop					MGN			
	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			
11.4	i.	Modification / Trial (if any):	NIL							
	ii.	Deviations (if any):	NIL							