



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4029	DISPATCH DATE				18.12.2014
2.	Railway	NER	Type	LWLRRM	Coach No.		14859
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		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 ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /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			AIKON		
	iv.	SEATS/BERTHS			RCF		
	v.	BODY SIDE DOOR			JBM		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/CONCEPT		
	viii.	WATER TANKS			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	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4029		NER		LWLRRM		14859		18-11-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)						LPC-II NPP Side (Non guard)			
	i.	Bogie No.	146960						146959			
	ii.	Frame No.	SCI/FM-55						SCI/FM-53			
	iii.	Bolster No.	4338-VT						4334-VT			
	iv.	Axle No.	Z-3579			128420/983			Z-3588		128355/991	
	v.	Wheel Dia.	917.00	917.00	918.00	918.00	917.00	917.00	918.00	918.00		
	vi.	Wheel Disc No.	337-10559	333-10559	008-11611	222-10568	211-10559	298-10559	344-63305	051-10570		
	vii.	R.B. Nos.	27669	31679	13684	37482	27668	32213	37345	37726		
	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.	G-12-9-153	G-12-9-234	G-12-9-124	G-12-9-121	CMGBD-14-7-19	G-12-6-171	CMGBD-14-7-18	G-12-6-191			
ii.	Ht. attest load	511	468	511	468	515	471	512	470			
iii.	Align .deviation	5	9	4	9	6	19	7	20			
12.3	Items traceability:											
	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			L&S-13-3		L&S-13-03		L&S			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							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							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.	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.	4019	DISPATCH DATE			23.01.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	14861
3.	Booked to	SSE/C&W/GKP				
4.	Tare Weight of Coach	53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage
5.						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	1103	1100		
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 ²	6 –10 sec	6 Sec		
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
		All Brake are applied	OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT	PU PAINT	GS	87		
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			RCF		
v.	BODY SIDE DOOR			JBM		
vi.	VESTIBULE SLIDING DOOR			KALSI		
vii.	CREW-GEN & GUARD ROOM DOOR			CP/CP		
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	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4019		NER		LWLRRM		14861		28-11-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)						LPC-II NPP Side (Non guard)			
	i.	Bogie No.	146986						146985			
	ii.	Frame No.	FIAT-3575						FIAT-3571			
	iii.	Bolster No.	4343-VT						4383VT			
	iv.	Axle No.	Z-3856			128808/990			105770/627		125583/377	
	v.	Wheel Dia.	916.00	916.50	915.50	915.50	915.50	915.50	915.50	915.50	915.50	
	vi.	Wheel Disc No.	104-10570	020-10559	142-51916	021-51916	277-51915	052-51908	048-10559	085-51912		
	vii.	R.B. Nos.	03031	32066	30110	02447	02023	02381	02388	01405		
	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.	G-12-9-156	G-12-9-132	G-12-9-263	G-12-9-181	CMGBD-38-836	G12-6-138	CMGBD-38-836	G12-6-137			
ii.	Ht. attest load	512	468	510	468	513	470	514	469			
iii.	Align .deviation	10	5	14	5	8	12	7	14			
12.3	Items traceability:											
	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			L&S-13-2		L&S-13-2		L&S			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							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							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.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4013	DISPATCH DATE			10.01.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	14860
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	1100	1105	
	v)	Buffer/CBC (Make)	FAIVELEY	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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied	OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE	
	8.1	PAINT	PU PAINT	VIBGYOR	88	
	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			RCF	
	v.	BODY SIDE DOOR			JBM	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM	
	viii.	WATER TANKS			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	



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Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4013		NER		LWLRRM		14860/C		27-11-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	146980					146979				
	ii.	Frame No.	FIAT-3586					FIAT-3565				
	iii.	Bolster No.	4165-GT					4389-VT				
	iv.	Axle No.	125945/477		105909/631			126775/468		125955/475		
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	915.00	
	vi.	Wheel Disc No.	044-53102	172-51908	346-63309	158-10559	116-51910	328-51915	288-51908	221-51916		
	vii.	R.B. Nos.	32250	32359	32148	30338	32183	31102	32130	32347		
	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.	G-12-9-260	G-12-9-219	G-12-9-257	G-12-9-230	CMFSK-14-6-46	G-12-9-268	CMFSK-14-6-48	G-12-9-241			
ii.	Ht. attest load	510	467	512	467	515	467	513	469			
iii.	Align .deviation	5	7	4	4	5	7	4	4			
12.3	Items traceability:											
	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			L&S-13-2		L&S-12-2		L&S			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							KONI			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							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							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.	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.	4023	DISPATCH DATE			29.01.2015
2.	Railway	NER	Type	LWLRRM	Coach No.	14862
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	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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied	OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT	GS	87	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
i.	BRAKE EQUIPMENT				KBI	
iii.	CDTS				ESCORTS	
iv.	SEATS/S&B				RCF	
v.	BODY SIDE DOOR				JBM	
vi.	VESTIBULE SLIDING DOOR				KALSI	
vii.	CREW-GEN & GUARD ROOM DOOR				CP/CP	
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	



रेल डिब्बा कारखाना, कपूरथला
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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4023		NER		LWLRRM		14862		26-11-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)						LPC-II NPP Side (Non guard)			
	i.	Bogie No.	146978						146977			
	ii.	Frame No.	FIAT-3582						FIAT-3572			
	iii.	Bolster No.	4266-VT						4360-VT			
	iv.	Axle No.	128272/991			106522/628			106054/631		106033/631	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.50	916.00		
	vi.	Wheel Disc No.	184-10579	025-11600	264-16339	347-11300	218-71596	030-10583	256-10553	255-63302		
	vii.	R.B. Nos.	31611	31660	31383	31630	32097	31555	32179	02370		
	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.	G-12-10-238	G-12-10-142	G-12-10-254	G-12-10-242	CMFSK-14-12-30	G-12-9-105	CMFSK-14-42	G-12-9-166			
ii.	Ht. attest load	509	467	510	466	514	469	513	469			
iii.	Align .deviation	9	15	8	12	6	9	6	8			
12.3	Items traceability:											
Sno.		Item			PP Side Bogie			NPP side Bogie			Make	
i.		Primary Outer Spring			L&S-12-3			L&S-12-5			L&S	
ii.		Primary inner Spring			L&S-13-2			L&S-13-2			L&S	
iii.		Primary Damper									KONI	
iv.		Secondary damper									SACHS	
v.		Lateral Damper									KONI	
vi.		Yaw Damper									NIL	
vii.		Brake cylinder & Caliper									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									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.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LPC-4023