



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4014	DISPATCH DATE				11.12.2014
2.	Railway	NER	Type	LWCBAC	Coach No.	14804	
3.	Booked to			SSE/C&W/GKP			
4.	Tare Weight of Coach		40.9 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
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)	FAIVELEY	Fiba Device	NIL		
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	3.80 ± 0.15 Kg/cm ²	3.80		
			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				
	ii.	CDTS/ BIO TOILET	AMIT				
	iii.	SEATS/ BERTHS	AMIR CHAND				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	AMIT & SHIVALIK				
	viii.	UIC VESTIBULE	CEMCON				
	ix	FLOOR BOARD	TAYAL				
	X	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	
			4014		NER		LWCBAC		14804		20-11-2014	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146937					146938				
	ii.	Frame No.	ECBT-878					ECBT-898				
	iii.	Bolster No.	4336-VT					4335-VT				
	iv.	Axle No.	Z-3514		129260/982		125907/477		Z-3108			
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	052-10579	142-10568	070-11603	06-11603	049-10583	237-11603	156-11600	061-11603		
	vii.	R.B. Nos.	36585	36566	36732	36835	36222	31503	31264	37336		
	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-12-4B-954	G12-4-1817	G12-4B-937	G12-4-1797	G12-4B-956	G12-4B-956	G12-4A-1144	G12-4-1819			
ii.	Ht. attest load	511	466	510	463	510	467	509	467			
iii.	Align .deviation	8	16	6	14	4	22	5	24			
12.3	Items traceability:											
Sno.		Item			PP Side Bogie			NPP side Bogie			Make	
i.		Primary Outer Spring			G-13-3			G-13-3			GF	
ii.		Primary inner Spring			G-12-6			G-12-6			GF	
iii.		Primary Damper									KONI	
iv.		Secondary damper									SACH	
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					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4022	DISPATCH DATE				18.12.2014
2.	Railway	NER	Type	LWCBAC	Coach No.	14805	
3.	Booked to	SSE/C&W/GKP					
4.	Tare Weight of Coach	40.9 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
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	NIL			
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	Max Pressure in BC	6 –10 sec	6 Sec		
		All Brake are applied		3.80 ± 0.15 Kg/cm ²	3.80		
				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	87/88			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					KBI	
ii.	CDTS/ BIO TOILET					SIL	
iii.	SEATS/ BERTHS					AMIR CHAND	
iv.	BODY SIDE DOOR					SUKATA, JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					AMIT & SHIVALIK	
viii.	UIC VESTIBULE					CEMCON	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE/PREMIER POLIFYL	
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	
			4022		NER		LWCBAC		14805		14-11-2014	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146929					146930				
	ii.	Frame No.	ECBT-888					ECBT-875				
	iii.	Bolster No.	4233-VT					4305-VT				
	iv.	Axle No.	Z-3247		Z-3736			Z-4832		Z-3769		
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	027-10579	086-11600	287-10559	343-10579	311-10559	091-10579	038-10559	332-63309		
	vii.	R.B. Nos.	02401	32563	02424	31538	31700	30600	02412	31704		
	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-12-4-1043	G-12-4-2001	G-12-4-950	G-12-4-1973	G-12-4-1140	G-12-4-2016	G-12-4-1038	G-12-4-2010		
ii.	Ht. attest load		509	468	511	467	510	468	510	467		
iii.	Align .deviation		4	14	1	13	3	19	2	17		
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-13-3			G-13-3			GF	
	ii.	Primary inner Spring			G-13-6			G-13-6			GF	
	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							

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4020	DISPATCH DATE			23.12.2014
2.	Railway	NER	Type	LWCBAC	Coach No.	14802
3.	Booked to	SSE/C&W/GKP				
4.	Tare Weight of Coach	40.9 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage NIL
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	NIL	
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	3.80 ± 0.15 Kg/cm ²	3.80	
			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	89	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			KBI		
ii.	CDTS/ BIO TOILET			SIL		
iii.	SEATS/ BERTHS			ARR KAYE		
iv.	BODY SIDE DOOR			JBM		
v.	VESTIBULE SLIDING DOOR			KALSI		
vi.	SALOON DOOR			KALSI		
vii.	WATER TANKS			AMIT & SHIVALIK		
viii.	UIC VESTIBULE			KRP		
ix	FLOOR BOARD			TAYAL		
X	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						
			4020		NER		LWCBAC		14802		27-10-2014						
12.1	Wheel & Axle Details:		PP Side					NPP Side									
	i.	Bogie No.	146893					146894									
	ii.	Frame No.	ECBT-868					ECBT-862									
	iii.	Bolster No.	4293-VT					4285-P									
	iv.	Axle No.	129230/992		129044/986			106168/630		129019/986							
	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.	283-11603	196-11603	270-11603	291-16339	304-11603	036-11603	187-11603	170-11603							
	vii.	R.B. Nos.	34217	34310	00238	01215	01093	01080	01208	36538							
	viii.	R.B. Make	TIMKEN		TIMKEN			TIMKEN		TIMKEN							
	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.		G12-5-1087	G12-5-1807	G12-5-930	G12-5-1800	G12-5-1079	G12-5-1675	G12-5-1092	G12-5-1826							
ii.	Ht. attest load		509	467	510	468	509	466	509	468							
iii.	Align .deviation		4	13	5	15	3	24	2	20							
12.3	Items traceability:																
		Sno.	Item			PP Side Bogie			NPP side Bogie			Make					
		i.	Primary Outer Spring			G-13-3			G-13-3			GF					
		ii.	Primary inner Spring			G-12-6			G-12-6			GF					
		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									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									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.	4021	DISPATCH DATE				31.12.2014
2.	Railway	NER	Type	LWCBAC	Coach No.	14803	
3.	Booked to		SSE/C&W/GKP				
4.	Tare Weight of Coach		40.9 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
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	NIL		
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	3.80 ± 0.15 Kg/cm ²	3.80		
			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	88/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	VIBHU				
	iii.	SEATS/ BERTHS	RCF				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	SHIVALIK, AMIT & E C BLADES				
	viii.	UIC VESTIBULE	CEMCON				
	ix	FLOOR BOARD	TAYAL				
	X	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	
			4021		NE		LWCBAC		14803/C		11-11-2014	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146939					146940				
	ii.	Frame No.	ECBT-880					ECBT-897				
	iii.	Bolster No.	4131-ECBT					4182-GT				
	iv.	Axle No.	RWF-110064		127021/476			Z-3972		Z-3659		
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	020-62321	236-10579	233-10568	112-10533	161-11611	317-10582	025-11611	269-11600		
	vii.	R.B. Nos.	30038	36541	30006	29590	36834	30034	30028	30041		
	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-12-4-1055	G-12-4-1840	G-12-4-1060	G-12-4-1651	G-12-4-1058	G-12-4-1933	G-12-4-927	G-12-4-1900		
ii.	Ht. attest load		512	468	512	466	511	468	510	466		
iii.	Align .deviation		3	13	2	17	1	20	3	21		
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-13-3		G-13-3		GF			
	ii.	Primary inner Spring			G-13-6		G-13-6		GF			
	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							