



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5030	DISPATCH DATE				28.10.2015
2.	Railway	SWR	Type	LWLRRM	Coach No.	14851	
3.	Booked to	SSE/C&W/SBC					
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	1104	1103		
	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	88/88		
	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 & SHIVALIK				
	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				



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5030	SW	LWLRRM	14851/C	18-09-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156660				156661			
	ii.	Frame No.	FIAT-4009				SCI-FM-233			
	iii.	Bolster No.	5029-VT				5000-VT			
	iv.	Axle No.	126989/476	126670/480	126628/480	128847/990				
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.50	918.00	917.50	917.00
	vi.	Wheel Disc No.	6196-00081	6229-00165	6229-00029	6229-00163	6196-00112	6198-00060	6198-00078	6232-00073
	vii.	R.B. Nos.	30416	21817	01936	22731	21648	15075	02073	16868
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	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-13-4-384	G-13-5-066	DN-13-4-370	G-13-5-116	CMFSK-15-5-24	DN-12-2-211	CMFSK-15-5-16	DN-12-2-209	
ii.	Ht. at test load	511	466	509	466	513.50	469	513	469	
iii.	Align .deviation	2	21	4	23	10	12	8	8	
11.3	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	GBD-11-5		GBD-11-05		GBD			
	iii.	Primary Damper	26798,26797,26658,26832		26762,26883,26759,26643		KONI			
	iv.	Secondary damper	5087,5506		5062,5247		KONI			
	v.	Lateral Damper	272		18		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	18821/261,1186/260,18808/261,1187/260		I-8818/261,J3236/261, I8807/261,J3233/261		KBI			
	viii.	Brake Disc					FTI,KBI			
	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					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							

LWLRRM- 5030



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5024	DISPATCH DATE				04.11.2015
2.	Railway	SWR	Type	LWLRRM	Coach No.	14853	
3.	Booked to	SSE/C&W/SBC					
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)	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	86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAIVELEY			
	iii.	CDTS		AIR FLOW			
	iv.	SEATS/S&B		GANDHI			
	v.	BODY SIDE DOOR		JBM			
	vi.	VESTIBULE SLIDING DOOR		HANSPAL			
	vii.	CREW-GEN & GUARD ROOM DOOR		CP/CP			
	viii.	WATER TANKS		E C BLADES & SHIVALIK			
	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	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5024		SWR		LWLRRM		14853		19-10-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156786					156785				
	ii.	Frame No.	SCI/FM-249					VS-07				
	iii.	Bolster No.	5044-GT					5162-VT				
	iv.	Axle No.	A-3186		128932/986		126552/481		127020/475			
	v.	Wheel Dia.	915.00	915.00	917.00	917.00	917.50	917.50	917.00	917.00		
	vi.	Wheel Disc No.	6228-00100	6228-00203	6207-00165	6207-00130	6198-00074	7150/00125	6228-00097	7150/00210		
	vii.	R.B. Nos.	02781	29633	03259	02200	01889	22240	03182	03141		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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.	CMGBD-15-1-14	G-13-5-180	CMGBD-15-1-20	G-13-154	CMAFJ-15-5-3	DN-12-3-189	CMAFJ-15-5-13	DN-12-10-256			
ii.	Ht. at test load	509.50	468	508.50	467	510	469	512	470			
iii.	Align .deviation	7	14	9	16	10	9	14	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-13-2		L&S-13-2		L&S			
	ii.	Primary inner Spring			G-15-3		G-15-3		GF			
	iii.	Primary Damper			26671,26497,26488,26633		26646,26827,26615,26632		KONI			
	iv.	Secondary damper			6008,5791		6040,5821		KONI			
	v.	Lateral Damper			47		305		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			141779/2000,141828/2000 141707/2000,141834/2000		142018/2000,142037/2000 141767/2000,141739/2000		FTI			
	viii.	Brake Disc							KBI			
	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							GMT,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							SARITA			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LPC-5024



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5026	DISPATCH DATE				30.10.2015
2.	Railway	SWR	Type	LWLRRM	Coach No.	14852	
3.	Booked to	SSE/C&W/SBC					
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		1104	1104	
v)	Buffer/CBC (Make)		ESCORT		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	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			HP			
vii.	CREW-GEN & GUARD ROOM DOOR			CP/JBM			
viii.	WATER TANKS			E C BLADES & SHIVALIK			
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		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
							LWLRRM				25-09-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156614					156613				
	ii.	Frame No.	FIAT-3951					FIAT-4034				
	iii.	Bolster No.	3330					5023-VT				
	iv.	Axle No.	125626/377		1292207/992		128377/991		126940/476			
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	916.50	917.00	916.50	916.00		
	vi.	Wheel Disc No.	6232-00022	6229-00016	6212-00128	6232-00013	6212-00095	6212-00099	6213-00034	6191-00041		
	vii.	R.B. Nos.	23274	29560	23292	30171	23306	23168	29664	29982		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	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-12-11-312	G-13-5-034	DN-13-1-305	G-13-5-060	G-15-4-050	G-12-11-289	G-15-4-056	G-12-11-291			
ii.	Ht. at test load	510	508	508	465	513	462	512	464			
iii.	Align .deviation	7	18	4	17	18	11	18	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			YR-13-11		YR-13-11		YR			
	ii.	Primary inner Spring			GBD-14-11		GBD-14-11		GBD			
	iii.	Primary Damper			26306,26845,26780,26837		26361,26304,26820,26846		KONI			
	iv.	Secondary damper			5313,5120		5045,5143		KONI			
	v.	Lateral Damper			309		280		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			J3261/261,I-3339/260, I8801/261,J-3341/260		J-3265/261,I8836/261, I8837/261,J3266/261		KBI			
	viii.	Brake Disc							KBI			
	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							GMT			
	xiv.	Traction centre elastic							GMT			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							WINLANE			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LWLRRM- 5026