



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4012	DISPATCH DATE			31.7.2014
2.	Railway	SR	Type	LWLRRM	Coach No.	13856
3.	Booked to	SSE/C&W/PER				
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)	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	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			AMIR CHAND	
	v.	BODY SIDE DOOR			JBM	
	vi.	VESTIBULE SLIDING DOOR			JBM	
	vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM	
	viii.	WATER TANKS			AMIT	
	ix	FUEL TANK			OMAX	
	x	UIC VESTIBULE			KRP	
	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

12.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		4012	SR	LWLRRM	13856	26-5-14				
12.1	Wheel & Axle Details:	LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)				
	i.	Bogie No.	146384				146385			
	ii.	Frame No.	FIAT-3078				FIAT-3072			
	iii.	Bolster No.	079HEI				075HEI			
	iv.	Axle No.	W-4686		W-4582		RWF-109709		RWF-109788	
	v.	Wheel Dia.	915.00	915.00	915.50	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	348-63305	197-63309	081-63307	323-62314	090-63307	077-62321	219-63305	240-63309
	vii.	R.B. Nos.	09224	09271	92000	09217	91609	40736	07286	40713
	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-4-13-066	G-4-13-076	G-4-13-111	G-4-13-124	G-3-13-0587	G-8-12-109	G-3-13-0653	G-8-12-120	
ii.	Ht. attest load	510	466	510	467	511	471	513	470	
iii.	Align .deviation	7	13	6	11	19	11	18	9	
12.3	Items traceability:									
	S no.	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				G-2-13		G-2-13		GF
	iii.	Primary Damper								GEREP
	iv.	Secondary damper								GEREP
	v.	Lateral Damper								GEREP
	vi.	Yaw Damper								NIL
	vii.	Brake cylinder & Caliper								KBI
	viii.	Brake Disc								FTI
	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								SARITA
	xviii.	Ball joint roll link								SARITA
	xix.	Fork make								EMSON
12.4	i.	Modification / Trial (if any):								NIL
	ii.	Deviations (if any):								NIL



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4002	DISPATCH DATE			25.7.2014	
2.	Railway	SR	Type	LWLRRM	Coach No.	13854	
3.	Booked to	SSE/C&W/PER					
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	87.5	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				AIKON		
iv.	SEATS/S&B				AMIR CHAND		
v.	BODY SIDE DOOR				JBM		
vi.	VESTIBULE SLIDING DOOR				JBM		
vii.	CREW-GEN & GUARD ROOM DOOR				CONCEPT/JBM		
viii.	WATER TANKS				AMIT		
ix	FUEL TANK				OMAX		
x	UIC VESTIBULE				KRP		
Xi	FLOOR BOARD				NARBADA		
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

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4002		NR		LWLRRM		13854/C		26-6-2014	
12.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)					
	i.	Bogie No.	146558				146559					
	ii.	Frame No.	FIAT-3180				FIAT-3171					
	iii.	Bolster No.	141/GT/ASR				3886-P					
	iv.	Axle No.	126973/476		128037/488		125658/471		128797/990			
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	915.50	915.50	915.00	915.00		
	vi.	Wheel Disc No.	258- 63302	289- 63309	107- 63301	302- 63301	199- 63301	309- 11611	062- 63302	129- 63309		
	vii.	R.B. Nos.	00289	00029	34325	34427	00198	34156	00250	34353		
	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.	BPS- 2013-	BPS- 2013-	BPS- 2013-	BPS- 2013-	BPS- 2013-	BPS- 2013-	BPS- 2013-	BPS- 2013-			
ii.	Ht. attest load	508	465.50	510	467	510	471	515	471			
iii.	Align .deviation	3	6.50	5	7	4	30	5	28			
12.3	Items traceability:											
	S no.	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							SACHS			
	iv.	Secondary damper							SACHS			
	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							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							SARITA			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LPC-4002