



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5069	DISPATCH DATE				25.04.2016
2.	Railway	ECR	Type	LWLRRM	Coach No.		16855
3.	Booked to			SSE/C&WRNCC			
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	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
	i.	BRAKE EQUIPMENT				KBI	
	iii.	CDTS				RAIL TECH	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				SUKATA	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/JBM	
	viii.	WATER TANKS				SHIVALIK	
	ix	FUEL TANK				OMAX	
	x	UIC VESTIBULE				SUNCREAST	
	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

Page 2 of 3

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5069	ECR	LWLRRM	16855	01-04-2016			
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166316				166315			
	ii.	Frame No.	FIAT-4433				FIAT-4762			
	iii.	Bolster No.	5419-VT				5513-VT			
	iv.	Axle No.	130086/986		K-2778		128600/989		K-3338	
	v.	Wheel Dia.	917.00	917.00	916.00	916.50	915.50	916.00	916.00	916.00
	vi.	Wheel Disc No.	6226-00077	6226-00075	7279-00192	7302-00093	7215-00125	7216-00120	7274-00019	07302-00200
	vii.	R.B. Nos.	04351	05698	07075	05470	04364	03059	04746	04909
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	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.	G-15-9-214	G-15-9-081	G-15-9-172	G-15-9-032	G-15-9-201	G-15-9-024	G-15-9-273	G-15-9-023	
ii.	Ht. at test load	511	466	511	465	515	471	513	470	
iii.	Align .deviation	2	15	3	16	13	3	14	5	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	GBD-15-11			GBD-15-11			GBD	
	ii.	Primary inner Spring	G-15-9			G-15-9			GF	
	iii.	Primary Damper	1116,1140,1526,1168			1602,652,1283,1530			GEREP	
	iv.	Secondary damper	4617,7007			4341,4712			KONI	
	v.	Lateral Damper	3722			3761			KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							-----	
	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							SGA	
	xiv.	Traction centre elastic							MGN	
	xv.	Secondary rubber pad							WINLANE	
	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-5069



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Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5077	DISPATCH DATE				27.04.2016
2.	Railway	ECR	Type	LWLRRM	Coach No.		16856
3.	Booked to			SSE/C&WRNCC			
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		GS	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			RAIL TECH		
	iv.	SEATS/S&B			GANDHI		
	v.	BODY SIDE DOOR			JBM		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM		
	viii.	WATER TANKS			SHIVALIK		
	ix	FUEL TANK			SHIVALIK		
	x	UIC VESTIBULE			ESORTS		
	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

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5077		ECR		LWLRRM		16856		04-04-2016	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	166321					166320				
	ii.	Frame No.	FIAT-4781					FIAT-4752				
	iii.	Bolster No.	5523-VT					148/GT/ASR				
	iv.	Axle No.	K-3069		K-3331		K-2787		K-3838			
	v.	Wheel Dia.	917.00	916.50	917.00	917.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	7290-00148	06150-00126	06234-00014	06226-00204	7302-00180	7299-00164	7304-00164	7283-00042		
	vii.	R.B. Nos.	02259	03495	03095	06203	05485	03302	04539	04541		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	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	Outer	Inner
i.	Make & nos.	G-15-9-190	G-15-9-106	G-15-9-238	G-15-9-014	G-15-9-191	G-15-9-050	G-15-9-263	G-15-9-057			
ii.	Ht. at test load	512	465	512	466	513	469	513	468			
iii.	Align .deviation	3	15	1	12	14	11	17	11			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			GBD-15-11			GBD-15-11			GBD	
	ii.	Primary inner Spring			G-15-9			G-15-9			GF	
	iii.	Primary Damper			1289,1167,1495,2108			1370,2096,1353,1547			GEREP	
	iv.	Secondary damper			117,138			446,539			GEREP	
	v.	Lateral Damper			3353			3517			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									-----	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA, EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT,MGN	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									WINLANE	
	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-5077