



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7010			DISPATCH DATE	29.07.2017	
2.	Railway	NR	Type	LWLRRM	Coach No.	173853	
3.	Booked to	SSE/C&W/NDLS					
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)	CBC Height	Specified : 1105 +0 /-15 mm		1105	1105	
	v)	CBC (Make)	SANROK		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.	BIO TANK			RAIL FAB		
	iv.	SEATS/S&B			GANDHI		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			KALSI/JBM		
	viii.	WATER TANKS			RAIL FAB, DTL		
	ix	FUEL TANK			GAURAV ASSOCIATE		
	x	UIC VESTIBULE			SSIPL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
	XII	LP SHEET			--		
	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.Vinyl Wrapping supplied and fitted by. M/S.Tehno Expert Jalandhar , Punjab , Contact No. 9317550000					
	10.2	Deviations if any:				NIL	



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RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176611610

11. Bogie Details:		Shell No.	Railway		Type	Coach No.	Dispatch Date		
					LWLRMM				
11.1 Wheel & Axle Details:									
i.	Bogie No.	176611				176610			
ii.	Frame No.	FIAT-5750				SCI-956			
iii.	Bolster No.	P-7137				P-7125			
iv.	Axle No.	T-0048		W-2893		S-9783		W-3189	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	915.50	915.50	916.00	916.00
vii.	Wheel Disc No.	00123-6221	00048-6221	00049-6221	00078-6221	00127-6221	00069-6047	03059-6QH9	07205-6QJ5
viii.	RB Nos.	04204	03434	04013	03496	03398	03338	04132	04089
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2 Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side	
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	Make & Nos.	GBD-17-3-022	FSK-16-09-064	GBD-17-03-011	FSK-16-09-015	FSK-17-04-31	GF-15-10-154	FSK-17-04-050	GF-15-10-122
ii.	Ht. at lest load	510.00	466.50	508.00	466.00	512.00	470.00	510.50	468.00
iii.	Align. deviation	10.00	7.00	10.00	8.00	14.00	4.00	16.00	6.00
Items traceability:									
11.3									
Sno.	Item					Make			
i.	Primary Outer Spring	L4S-15-12				L4S			
ii.	Primary inner Spring	RSK-16-07				RSK			
iii.	Primary Damper	36869, 36677, 36767, 37016		37103, 36902, 36805, 36814		KONI			
iv.	Secondary Damper	340, 341				342, 344			
v.	Lateral Damper	237				238			
vi.	Break cylinder & Caliper	7338, 13633, 7337, 13635				7339, 6926, 7340, 6931			
vii.	Break Disc					FTI			
viii.	Control arm top					KUMAR			
ix.	Control arm bottom					KUMAR			
x.	top rubber Pad					GMT			
xi.	Vertical Bump Stop					GMT			
xii.	Ball Joint Control arm					MGN			
xiii.	Lateral Bump stop					GMT			
xiv.	Traction center make					EMSON			
xv.	Traction lever make					SARITA			
xvi.	Ball joint traction lever					MGN		SGA	
xvii.	Traction center elastic					GMT			
xviii.	Secondary rubber pad					DUREL			
xix.	Rubber spring					GMT			
xx.	Anti roll bar make					EMSON			
xxi.	Ball joint roll link					SARITA			
xxii.	FORK make					RNG		SARITA	
11.4									
i.	Modification/Trail(if any):	NIL							
ii.	Deviations (if any):	NIL							



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Page 1 of 2

रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7009			DISPATCH DATE	29.07.2017	
2.	Railway	NR	Type	LWLRRM	Coach No.	173852	
3.	Booked to	SSE/C&W/NDLS					
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	CBC (Make)	SANROK	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.	BIO TANK			RAIL FAB		
	iv.	SEATS/S&B			GANDHI		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI		
	viii.	WATER TANKS			RAIL FAB, MANOJ		
	ix	FUEL TANK			GAURAV ASSOCIATE		
	x	UIC VESTIBULE			SSIPL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
	XII	LP SHEET			--		
	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.Vinyl Wrapping supplied and fitted by. M/S.Tehno Expert Jalandhar , Punjab , Contact No. 9317550000					
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7009	NR	LWLRRM	173852	03-03-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176193				176183			
	ii.	Frame No.	FIAT-5101				ECBT-19			
	iii.	Bolster No.	6704-P				6661-P			
	iv.	Axle No.	S-9829		R-2430		N-0951		S-9190	
	v.	Items/location S	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00
	vii.	Wheel Disc No.	00140/62 25	00138/62 25	00143/61 93	00181/61 81	00040/62 19	00109/62 03	00009/62 17	00139/6217
	viii.	R.B. Nos.	87145	76325	99774	97533	87037	73447	76216	62423
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-040	G-15-9-111	G-15-9-041	G-15-9-002	G-15-9-362	G-15-10-189	G-15-9-408	G-15-10-220	
ii.	Ht. at test load	510	467	510	468	513	469	514	470	
iii.	Align .deviation	11	13	10	12	15	5	15	6	
11.3	Items traceability:									
	Sno.	Item					Make			
	i.	Primary Outer Spring			GBD-16-8		FSK-16-11		GBD,FSK	
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK	
	iii.	Primary Damper			35442,35461,35476,35531		36611,36551,35626,35479		KONI	
	iv.	Secondary damper			198,196		0728,710		SV	
	v.	Lateral Damper			388		0349		SV	
	vi.	Brake cylinder & Caliper							-----	
	vii.	Brake Disc							KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							GMT	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON, SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA,MGN	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							EMSON	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							SARITA, EMSON	
11.4	i.	Modification / Trial (if any):					NIL			
	ii.	Deviations (if any):					NIL			