



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6036			DISPATCH DATE	30.01.2017	
2.	Railway	SECR	Type	LWLRRM(HM)	Coach No.	16862	
3.	Booked to	SSE/C&W/BSP					
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)	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	APEX	87		
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 TECH			
iv.	SEATS/S&B			AAR KAY FOAMS			
v.	BODY SIDE DOOR			JBM			
vi.	VESTIBULE SLIDING DOOR			KALSI			
vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM			
viii.	WATER TANKS			SHIVALIK,			
ix	FUEL TANK			GAURAV ASSOCIATE			
x	UIC VESTIBULE			ESCORT			
XI	FLOOR BOARD			OVPL			
XII	PVC			RESPONSIVE			
XII	LP SHEET			--			
10.1	Modification / Trail (if any): 1.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			
			6036	SECR	LWLRRM	16862	12-11-2016			
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	167010				167011			
	ii.	Frame No.	FIAT-5249				FIAT-5226			
	iii.	Bolster No.	6282-P				6399-P			
	iv.	Axle No.	R-2503		R-2409		R-2461		R-3166	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	00039-7301	00107-7301	00077-7301	00149-7301	00729-6QJ9	00731-6QJ9	03966-6QH0	03969-6QH0
	vii.	R.B. Nos.	06098	06200	05859	06527	33410	35297	38525	63109
	viii.	R.B. Make	TIMKEN		TIMKEN		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.	FSK-16-9-20	GBD-16-6-16	FSK-16-9-37	GBD-16-6-18	DN-16-1-2216	DN-16-5-417	DN-16-1-2327	DN-16-5-372	
ii.	Ht. at test load	510	468	512	468	515	466	515	467	
iii.	Align .deviation	8	10	10	10	16	11	16	8	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-8		GBD-16-8		GBD	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			4016,4088,4081,4103		4325,4242,4052,4194		KNORR	
	iv.	Secondary damper			0439,0471		0459,0437		SV	
	v.	Lateral Damper			0351		0523		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							-----	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							EMSON, SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TECSPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITA	
11.4	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.	6037			DISPATCH DATE	30.01.2017	
2.	Railway	SECR	Type	LWLRRM(HM)	Coach No.	16863	
3.	Booked to	SSE/C&W/BSP					
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	1102		
	v)	Buffer/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	APEX	85		
	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 TECH				
	iv.	SEATS/S&B	AAR KAY FOAMS				
	v.	BODY SIDE DOOR	JBM				
	vi.	VESTIBULE SLIDING DOOR	KALSI				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/JBM				
	viii.	WATER TANKS	SHIVALIK,				
	ix	FUEL TANK	GAURAV ASSOCIATE				
	x	UIC VESTIBULE	ESCORT				
	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			
			6037	SECR	LWLRRM	16863	18-10-2016			
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166921				166920			
	ii.	Frame No.	FM-643				FM-662			
	iii.	Bolster No.	6190-GT				101-VT/ASR			
	iv.	Axle No.	R-3325		R-3233		R-3257		N-6058	
	v.	Wheel Dia.	917.00	917.00	916.50	916.00	916.50	916.00	917.00	917.00
	vi.	Wheel Disc No.	05182-6QM3	00872-6QJ9	03461-6QL8	03151-6QL7	03722-6QK3	07569-6QK4	07305-6QK0	06738-6QH6
	vii.	R.B. Nos.	05400	05383	05258	06203	05636	05435	02215	01756
	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.	DN-15-12-412	DN-12-3-329	DN-15-12-440	DN-12-2-293	G-16-1-1066	DN-16-3-438	G-16-1-1114	DN-16-3-375	
ii.	Ht. at test load	511	458	511	460	510	466	512	468	
iii.	Align .deviation	6	3	6	3	16	13	17	15	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			3995,3977,3827,3848		4212,4076,3933,4332		KNORR	
	iv.	Secondary damper			0515,049		0496,0517		SV	
	v.	Lateral Damper			0321		344		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			4382/261,K5551/260 4381/261,K5544/260		4300/261,4226/261 4376/261,4225/261		KBI	
	viii.	Brake Disc							FTI	
	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							GMT	
	xv.	Secondary rubber pad							TECSPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITA, EMSON	
11.4	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.	6050			DISPATCH DATE	30.01.2017	
2.	Railway	SECR	Type	LWLRRM(HM)	Coach No.	16864	
3.	Booked to	SSE/C&W/BSP					
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)	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	86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			FAVELLY		
	iii.	BIO TANK			RAIL TECH		
	iv.	SEATS/S&B			AAR KAY FOAMS		
	v.	BODY SIDE DOOR			SUKATA		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/CP		
	viii.	WATER TANKS			AMIT		
	ix	FUEL TANK			SHIVALIK		
	x	UIC VESTIBULE			ESCORT		
	XI	FLOOR BOARD			OVPL		
	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			
			6050	SECR	LWLRRM	16864	27-12-2016			
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	167156				167157			
	ii.	Frame No.	SCI/FM-749				SCI/FM-747			
	iii.	Bolster No.	6492-P				6512-P			
	iv.	Axle No.	N-0438		R-2815		R-3525		R-2278	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00044-6110	00097-6134	00161-6133	00055-6133	00170-6134	00174-6134	00182-6133	00172-6133
	vii.	R.B. Nos.	82201	62747	86499	81741	83512	87156	94343	87640
	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.	G-15-9-223	DN-16-5-492	G-15-9-207	DN-16-5-463	DN-16-3-216	DN-16-3-398	DN-16-3-2479	DN-16-3-385	
ii.	Ht. at test load	510	464	512	466	512	466	512	468	
iii.	Align .deviation	2	5	2	5	12	15	13	17	
11.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		GBD-16-8		GBD-16-8		GBD		
	ii.	Primary inner Spring		L&S-15-11		L&S-15-11		L&S		
	iii.	Primary Damper		437,476,500,498		537,435,459,442		GABRIAL		
	iv.	Secondary damper		0684,0432		0657,0406		SV		
	v.	Lateral Damper		0207		0291		SV		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		K16048/2000,K16053/2000 K16047/2000,K16045/2000		K16023/2000,K16018/2000 K16024/2000,K16022/2000		FTI		
	viii.	Brake Disc						KBI,FTI		
	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						SGA		
	xiv.	Traction centre elastic						SGA		
	xv.	Secondary rubber pad						TECSPAK		
	xvi.	Rubber spring						GMT		
	xvii.	Anti roll bar make						SARITA		
	xviii.	Ball joint roll link						SARITA		
	xix.	Fork make						EMSON		
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				