



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4043	DISPATCH DATE			20.03.2015	
2.	Railway	SECR	Type	LWACCW	Coach No.	15056	
3.	Booked to		SSE/C&W/BSP				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	Luggage	NIL
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	1104			
v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NIL			
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	ADVANCE	86/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			KBI			
ii.	CDTS/ BIO TOILET			ESCORTS			
iii.	SEATS/ BERTHS			AMIR CHAND			
iv.	BODY SIDE DOOR			JBM, MRC			
v.	VESTIBULE SLIDING DOOR			JR			
vi.	COMPTT.DOOR			KALSI			
vii.	WATER TANKS			AMIT & SHIVALIK			
viii.	UIC VESTIBULE			KRP			
ix	FLOOR BOARD			TAYAL			
X	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4043	SECR	LWACCW	15056	20-01-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156060				156061			
	ii.	Frame No.	SCI/FM-83				SCI/FM-89			
	iii.	Bolster No.	4457-GT				4466-GT			
	iv.	Axle No.	B-9933		C-4155		C-4328		C-4329	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	039-10559	006-62321	365-63305	084-62321	084-61077	104-10568	109-61077	248-63309
	vii.	R.B. Nos.	02992	03006	01639	02371	02053	02513	01034	01245
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<u>Secondary suspension load deflection Values:</u>									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	CMFSK-13-01-9514	G-12-5-27	CMFSK-13-01-9514	G-12-5-3120	CMFSK-13-01-9514	G-12-5-2908	CMFSK-13-01-9514	G-12-5-3094	
ii.	Ht. attest load	511.50	465	507	466	514	465	512	466	
iii.	Align .deviation	16	10	14	9	19	21	18	19	
12.3	<u>Items traceability:</u>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			L&S-13-3		L&S-13-3		L&S	
	ii.	Primary inner Spring			L&S-13-2		L&S-13-2		L&S	
	iii.	Primary Damper							KONI	
	iv.	Secondary damper							GEREP	
	v.	Lateral Damper							GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							KBI	
	viii.	Brake Disc							KBI	
	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							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							EMSON	
12.4	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.	4044	DISPATCH DATE			20.03.2015
2.	Railway	SECR	Type	LWACCW	Coach No.	15054
3.	Booked to			SSE/C&W/BSP		
4.	Tare Weight of Coach			52		
5.	Carrying Capacity	Seating	52	Sleeping	52	Luggage
						NIL
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	NIL	
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		ADVANCE	87/87
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
i.	BRAKE EQUIPMENT				KBI	
ii.	CDTS/ BIO TOILET				ESCORTS	
iii.	SEATS/ BERTHS				AMIR CHAND	
iv.	BODY SIDE DOOR				JBM, MRC	
v.	VESTIBULE SLIDING DOOR				JR	
vi.	COMPTT.DOOR				KALSI	
vii.	WATER TANKS				AMIT & SHIVALIK	
viii.	UIC VESTIBULE				CEMCON	
ix	FLOOR BOARD				TAYAL	
X	PVC				RESPONSIVE	
10.						
10.1	Modification / Trail (if any):				NIL	
10.2	Deviations if any:				NIL	



12.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4044	SECR	LWACCW	15054	29-01-2015			
12.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156086				156087			
	ii.	Frame No.	FIAT-3765				FIAT-3766			
	iii.	Bolster No.	4473-GT				4472-GT			
	iv.	Axle No.	C-4208		B-9866		B-9755		C-4077	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.50
	vi.	Wheel Disc No.	152-11611	131-10582	061-10570	142-11600	283-11600	231-10582	076-10559	021-63301
	vii.	R.B. Nos.	03414	03238	03070	02077	03214	02179	03187	03200
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
12.2	<u>Secondary suspension load deflection Values:</u>									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	CMGBD-12-10	G-12-8-2769	CMGBD-12-10	G-12-8-3074	CMGBD-12-10	G-12-8-2785	CMGBD-12-10	G-12-8-2982	
ii.	Ht. attest load	512	464	507	466	507	465	507	466	
iii.	Align .deviation	26	26	24	25	20	16	18	14	
12.3	<u>Items traceability:</u>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			CMRSK-13-2		CMRSK-13-2		CMRSK	
	ii.	Primary inner Spring			CMRSK-14-5		CMRSK-14-5		CMRSK	
	iii.	Primary Damper							KONI	
	iv.	Secondary damper							GEREP	
	v.	Lateral Damper							GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							SGA	
	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							EMSON	
12.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4048	DISPATCH DATE				19.03.2015
2.	Railway	SECR	Type	LWACCW	Coach No.	15055	
3.	Booked to		SSE/C&W/BSP				
4.	Tare Weight of Coach		52 T				
5.	Carrying Capacity	Seating	52	Sleeping	52	Luggage	NIL
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	NIL		
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	ADVANCE	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				KBI	
	ii.	CDTS/ BIO TOILET				ESCORTS	
	iii.	SEATS/ BERTHS				AMIR CHAND	
	iv.	BODY SIDE DOOR				JBM, MRC, SUKATA	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vi.	COMPTT.DOOR				KALSI	
	vii.	WATER TANKS				AMIT & SHIVALIK	
	viii.	UIC VESTIBULE				FRIKMART	
	ix	FLOOR BOARD				TAYAL	
	X	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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Rail Coach Factory , Kapurthala

12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4048		SECR		LWACCW		15055/C		21-01-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156062						156063			
	ii.	Frame No.	FIAT-3643						FIAT-3722			
	iii.	Bolster No.	4311-VT						4098-GT			
	iv.	Axle No.	128568/989			B-9687			B-9676		B-9722	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	088-10533	139-63309	272-62314	119-63307	056-11610	005-11610	202-51908	028-63302		
	vii.	R.B. Nos.	36623	03286	01149	02801	03291	03021	02929	03095		
	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.	CMFSK-13-1-9514-163	G-12-8-2840	CMFSK-13-1-9514-164	G-12-8-2813	CMFSK-13-1-9514-162	G-12-8-2878	CMFSK-13-1-9514-161	G-12-8-2781			
ii.		Ht. attest load	508.50	466	510.50	466	509	465	507.50	467		
iii.	Align .deviation	18	24	20	25	17	19	16	17			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-13-3		L&S-13-3		L&S			
	ii.	Primary inner Spring			L&S-13-2		L&S-13-2		L&S			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							KBI			
	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							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							EMSON			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

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