



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4003	DISPATCH DATE			31.03.2015	
2.	Railway	CR	Type	LFCWAC	Coach No.	15027	
3.	Booked to		SSE/C&W/CSTM				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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	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						VIBHU
iii.	SEATS/ BERTHS						AAR KAY FOAMS
iv.	BODY SIDE DOOR						JBM, SUKATA
v.	VESTIBULE SLIDING DOOR						KALSI
vi.	SALOON DOOR						JBM
vii.	WATER TANKS						AMIT, SHIVALIK
viii.	UIC VESTIBULE						KRP
ix	FLOOR BOARD						TAYAL
x	PVC FLOORING						RESPONSIVE
10.							
i	Modification / Trail (if any):						NIL
ii	Deviations if any:						NIL



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4003		CR		LFCWAC		15027/C		10-02-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156124						156125			
	ii.	Frame No.	FIAT-3747						FIAT-3758			
	iii.	Bolster No.	3813-P						3118-P			
	iv.	Axle No.	A-3173			C-4369			Z-3258		B-9812	
	v.	Wheel Dia.	916.00	916.00	916.50	916.50	917.00	917.00	916.00	916.00		
	vi.	Wheel Disc No.	108-63301	242-10583	246-10568	186-10559	199-10533	206-10583	019-62321	037-61077		
	vii.	R.B. Nos.	36658	36558	36648	37977	25104	25187	24097	27028		
	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.	GBD-12-10-51425-6	HZ-13-060	GBD-12-10-51425-27	HZ-13-031	GBD-12-10-51425-62	HZ-13-036	GBD-12-10-51425-45	HZ-13-040			
ii.	Ht. attest load	512	467.60	508	465.70	512	467.70	509	466			
iii.	Align .deviation	34	43.30	30	40.30	22	30.30	23	36.40			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			CMRSK-13F-03R-2891		CMRSK-13F-03R-2891		CMRSK			
	ii.	Primary inner Spring			CMRSK-14F-02R-1702		CMRSK-14F-02R-1702		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							WINALANE			
	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					



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4001	DISPATCH DATE			30.03.2015	
2.	Railway	CR	Type	LFCWAC	Coach No.	15026	
3.	Booked to		SSE/C&W/CSTM				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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	88/88	
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						VIBHU
iii.	SEATS/ BERTHS						AAR KAY FOAMS
iv.	BODY SIDE DOOR						JVR, SUKATA
v.	VESTIBULE SLIDING DOOR						KALSI
vi.	SALOON DOOR						KALSI
vii.	WATER TANKS						AMIT, SHIVALIK
viii.	UIC VESTIBULE						CEMCON
ix	FLOOR BOARD						TAYAL
x	PVC FLOORING						RESPONSIVE
10.							
i	Modification / Trail (if any):						NIL
ii	Deviations if any:						NIL



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4001		CR		LFCWAC		15026/C		06-01-2015	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156011						156012			
	ii.	Frame No.	FIAT-3577						FIAT-3668			
	iii.	Bolster No.	4373-VT						4386-VT			
	iv.	Axle No.	A-3123			Z-3551			A-2823		RWF-109690	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.50	917.00	917.50	917.50		
	vi.	Wheel Disc No.	224-11596	265-16339	133-10533	141-10559	190-11605	214-11605	241-51742	293-50842		
	vii.	R.B. Nos.	03298	03244	00504	00642	00919	01460	00568	00628		
	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.	YR-13-12-057	YR-13-11-38	YR-13-12-03	YR-13-11-11	YR-13-12-058	YR-13-11-09	YR-13-12-046	YR-13-11-01			
ii.	Ht. attest load	507.4	463.4	510.1	467	511.2	464.9	511.8	466.1			
iii.	Align .deviation	22.55	29.46	23.03	28.93	26.13	27.76	29.26	32.98			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			YR-13-11		YR-13-11		YR			
	ii.	Primary inner Spring			YR-13-11		YR-13-11		YR			
	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					

LFCW-4001