



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6005	DISPATCH DATE			11.02.2017
2.	Railway	SR	Type	LFCWAC	Coach No.	16027
3.	Booked to		SSE/C&W/PER			
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		1100	1100
v)	Buffer/CBC (Make)		FAIVELEY		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		GS	85/85
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:					Make
i.	BRAKE EQUIPMENT					KBI
ii.	BIO TOILET					RAIL FAB, JSL
iii.	SEATS/ BERTHS					AAR KAY FOAMS
iv.	BODY SIDE DOOR					SUKATA
v.	VESTIBULE SLIDING DOOR					KALSI
vi.	SALOON DOOR					KALSI
vii.	WATER TANKS					SHIVALIK, AMIT
viii.	UIC VESTIBULE					SSIPL
ix	FLOOR BOARD					NARBADA
x	PVC FLOORING					RESPONSIVE
XI	PARTITION PANEL					HINDUSTAN
10.						
i	Modification / Trail (if any):				NIL	
ii	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6005	SR	LFWWZAC	16027/C	29-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166962				166967			
	ii.	Frame No.	FM-671				FM-639			
	iii.	Bolster No.	6332-P				6336-P			
	iv.	Axle No.	N-0330		R-3546		N-0857		P-9801	
	v.	Wheel Dia.	917.00	917.00	917.50	917.00	917.00	917.50	917.00	917.00
	vi.	Wheel Disc No.	00175-7301	00142-7301	06651-6QH6	06823-6QH7	06650-6QH0	06063-6QK6	07074-6QJ4	07078-6QJ4
	vii.	R.B. Nos.	04966	06230	05552	06144	05346	06185	05455	05399
	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.	AFJ-16-9-46	FSK-16-7-26	AFJ-16-9-64	FSK-16-7-62	AFJ-16-9-50	FSK-16-7-30	AFJ-16-9-57	FSK-16-7-44	
ii.	Ht. at test load	511	468	512	466	512	468	512	467	
iii.	Align .deviation	20	8	20	9	18	9	16	8	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-14-5		RSK-14-5		RSK			
	ii.	Primary inner Spring	RSK-16-3		RSK-16-3		RSK			
	iii.	Primary Damper	3960,4182,4166,4124		4265,4271,4040,4171		KNORR			
	iv.	Secondary damper	014,0403		0308,0597		SV			
	v.	Lateral Damper	387		0309		SV			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	4205/691,4116/691 4205/691,4117/691		4253/691,4251/691 4252/691,4258/691		KBI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					MGN			
	xi.	Traction center make					EMSON			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					SGA			
	xiv.	Traction centre elastic					GMT			
	xv.	Secondary rubber pad					TECSPACK			
	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.	6006	DISPATCH DATE			15.02.2017	
2.	Railway	NR	Type	LFCWAC	Coach No.	163029	
3.	Booked to			SSE/C&W/PERFZR			
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)		FAIVELEY		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		GS	85/85	
8.2	APPLICATION OF PCN-123			SATISFACTORY			
8.3	INSUALTION			SATISFACTORY			
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			KBI			
ii.	BIO TOILET			RAIL FAB, JSL			
iii.	SEATS/ BERTHS			AAR KAY FOAMS			
iv.	BODY SIDE DOOR			SUKATA			
v.	VESTIBULE SLIDING DOOR			KALSI			
vi.	SALOON DOOR			KALSI			
vii.	WATER TANKS			SHIVALIK, AMIT			
viii.	UIC VESTIBULE			SSIPL			
ix	FLOOR BOARD			NARBADA			
x	PVC FLOORING			RESPONSIVE			
XI	PARTITION PANEL			HINDUSTAN			

10.	i	Modification / Trail (if any):	NIL
	ii	Deviations if any:	NIL



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12.	<u>Bogie Details:</u>								
12.1	Wheel & Axle Details:		PP Side				NPP Side		
	i.	Bogie No.	167015				167013		
	ii.	Frame No.							
	iii.	Bolster No.							
	iv.	Axle No.							
	v.	Wheel Diameter							
	vi.	Wheel Disc No.							
	vii.	R.B. Nos.							
	viii.	R.B. Make							
	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.								
ii.	Compressed ht. at tested load								
iii.	Alignment deviation								
12.3	<u>Items traceability:</u>								
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring							
	ii.	Primary inner Spring							
	iii.	Primary Damper							
	iv.	Secondary damper							
	v.	Lateral Damper							
	vi.	Yaw Damper							
	vii.	Brake cylinder & Caliper							

	viii.	Brake Disc		
	ix.	Ball joint Control arm		
	x.	Lateral Bump stop		
	xi.	Traction center make		
	xii.	Traction lever make		
	xiii.	Ball joint traction lever		
	xiv.	Traction centre elastic		
	xv.	Secondary rubber pad		
	xvi.	Rubber spring		
	xvii.	Anti roll bar make		
	xviii.	Ball joint roll link		
	xix.	Fork make		
12.4	12.1	Modification / Trial (if any):		
	12.2	Deviations (if any):		

LFCWAC -6006



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6008	DISPATCH DATE			02.01.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	15029	
3.	Booked to	SSE/C&W/HWH					
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)	SANROK	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	VIBGYOR	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				

	ii.	BIO TOILET	AMIT
	iii.	SEATS/ BERTHS	AAR KAY FOAMS
	iv.	BODY SIDE DOOR	SUKATA
	v.	VESTIBULE SLIDING DOOR	KALSI
	vi.	SALOON DOOR	KALSI
	vii.	WATER TANKS	AMIT
	viii.	UIC VESTIBULE	ESCORTS
	ix	FLOOR BOARD	NARBADA
	x	PVC FLOORING	RESPONSIVE
	XI	PARTITION PANEL	--
10.			
	i	Modification / Trail (if any):	NIL
	ii	Deviations if any:	NIL



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12.	<u>Bogie Details:</u>									
12.1	Wheel & Axle Details:	PP Side				NPP Side				
	i.	Bogie No.	167021				167020			
	ii.	Frame No.								
	iii.	Bolster No.								
	iv.	Axle No.								
	v.	Wheel Diameter								
	vi.	Wheel Disc No.								
	vii.	R.B. Nos.								
	viii.	R.B. Make								
	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.								
	ii.	Compressed ht. at tested load								
	iii.	Alignment								

	deviation							
12.3	Items traceability:							
	Sno.	Item	PP Side Bogie	NPP side Bogie	Make			
	i.	Primary Outer Spring						
	ii.	Primary inner Spring						
	iii.	Primary Damper						
	iv.	Secondary damper						
	v.	Lateral Damper						
	vi.	Yaw Damper						
	vii.	Brake cylinder & Caliper						
	viii.	Brake Disc						
	ix.	Ball joint Control arm						
	x.	Lateral Bump stop						
	xi.	Traction center make						
	xii.	Traction lever make						
	xiii.	Ball joint traction lever						
	xiv.	Traction centre elastic						
	xv.	Secondary rubber pad						
	xvi.	Rubber spring						
	xvii.	Anti roll bar make						
	xviii.	Ball joint roll link						
	xix.	Fork make						
12.4	12.1	Modification / Trial (if any):						
	12.2	Deviations (if any):						

LFCWAC -6008