



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6012	DISPATCH DATE				02.02.2017
2.	Railway	NR	Type	LWACCW	Coach No.	163092	
3.	Booked to			SSE/C&W/DLI			
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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
	8.1	PAINT	PU PAINT		VIBGYOR	88/89	
	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		OVPL			
	iv.	BODY SIDE DOOR		JBM, SUKATA			
	v.	VESTIBULE SLIDING DOOR		KALSI			
	vi.	COMPTT.DOOR		HP			
	vii.	WATER TANKS		MANOJ, SHIVALIK			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		TAYAL			
	X	PVC		PREMIER POLYFILM			
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6012	nr	LACCW	163092	01-12-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	167060				167061			
	ii.	Frame No.	FIAT-4243				FIAT-5312			
	iii.	Bolster No.	6419-GT				6297-P			
	iv.	Axle No.	N-0366		K-3405		N-1050		K-4159	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	918.00	918.00	916.00	916.00
	vi.	Wheel Disc No.	00190-6048	00195-7301	00116-6178	00010-6018	00090-6095	00086-6133	00077-6133	00040-6108
	vii.	R.B. Nos.	62898	94265	94290	94596	93913	34054	87837	94404
	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.	FSK-16-8-21	RSK-16-5-380	FSK-16-8-30	RSK-16-5-664	FSK-16-8-22	RSK-16-5-744	FSK-16-8-27	RSK-16-5-793	
ii.	Ht. at test load	507.50	467	507.50	467	509	466	509	465	
iii.	Align .deviation	9	29	7	23	8	33	9	37	
11.3	Items traceability:									
	Sno.	Item		PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring		RSK-11-5		RSK-11-5		RSK		
	ii.	Primary inner Spring		RSK-16-3		RSK-16-3		RSK		
	iii.	Primary Damper		666,665,74,210		333,687,672,663		GEREP		
	iv.	Secondary damper		0649,0618		0693,0733		SV		
	v.	Lateral Damper		372		362		SV		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		3583/691,3004/691 3584/691,3503/691		4224/691,4223/691 4177/691,4175/691		KBI		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						MGN		
	x.	Lateral Bump stop						GMT		
	xi.	Traction center make						EMSON		
	xii.	Traction lever make						EMSON		
	xiii.	Ball joint traction lever						SGA		
	xiv.	Traction centre elastic						GMT		
	xv.	Secondary rubber pad						TECSPAC K		
	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					

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1.	SHELL No.	6007	DISPATCH DATE				14.02.2017
2.	Railway	NR	Type	LWACCW	Coach No.	163093	
3.	Booked to			SSE/C&W/DLI			
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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/88		
	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	SAVITRI				
	iv.	BODY SIDE DOOR	SUKATA, JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	RAIL TECH				
	vii.	WATER TANKS	AMIT				
	viii.	UIC VESTIBULE	ESCORTS				
	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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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6007	NR	LWACCW	163093	13-12-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	167098				167099			
	ii.	Frame No.	FIAT-5296				FIAT-5321			
	iii.	Bolster No.	6414-GT				6447-GT			
	iv.	Axle No.	N-5793		N-6086		N-1046		K-3609	
	v.	Wheel Dia.	916.00	916.00	917.00	916.50	917.00	917.00	916.00	916.50
	vi.	Wheel Disc No.	00037-6133	00155-6106	00008-6069	00106-6138	00148-6178	00005-6018	00136-6110	00090-6069
	vii.	R.B. Nos.	98781	80321	62749	98652	62721	62714	63105	98777
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	RSK-16-5-874	RSK-16-5-264	RSK-16-5-714	RSK-16-5-743	RSK-16-5-630	RSK-16-5-854	RSK-16-5-881	RSK-16-5-924	
ii.	Ht. at test load	510	464	512	466	508	468	508	467	
iii.	Align .deviation	11	29	11	31	5	32	6	33	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-11		RSK-15-11		RSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			63,216,330,647		159,160,105,135		GEREP	
	iv.	Secondary damper			0619,0542		0637,0466		SV	
	v.	Lateral Damper			L-0186		L-0444		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			3734/691,3723/691 3732/691,3722/691		3695/691,3704/691 3718/691,3705/691		KBI	
	viii.	Brake Disc							FTI,KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							AWF	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							SGA	
	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			