



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7002	DISPATCH DATE				26.05.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16250	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	85/86		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i	BRAKE EQUIPMENT				FAIVELEY		
ii	SEAT & BERTH				OVPL		
iii	BODY SIDE DOORS				JVR		
iv	WATER TANKS				RAIL TECH & SHIVALIK		
v	FLOOR BOARD				TWPL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
viii	VESTIBULE SLIDING DOOR				HANSPAL		
					RAIL TECH, JSL		
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			
			7002	ER	LSCN	16250	26-04-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176388				176389			
	ii.	Frame No.	ECBT-057				FIAT-5664			
	iii.	Bolster No.	6908-GT				6910-GT			
	iv.	Axle No.	W-3599		S-9251		S-9765		W-3083	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00042/7321	00048/7250	00076/7250	00172/7254	00055/7274	00074/7274	00050/6223	00029/7258
	viii.	R.B. Nos.	72980	73127	87959	87353	73336	73363	77382	76034
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	RSK-16-4-110	GBD-17-3-243	RSK-16-4-198	GBD-17-3-246	RSK-16-4-175	GBD-17-3-224	RSK-16-4-170	GBD-17-3-242	
ii.	Ht. at test load	514	471	513	471	515	472	515	472	
iii.	Align .deviation	5	6	5	6	9	12	8	12	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-12		FSK-16-7		FSK	
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK	
	iii.	Primary Damper			35390,35417,35431,35573		35608,35388,35378,35428		KONI	
	iv.	Secondary damper			338,286		377,235		GEREP	
	v.	Lateral Damper			0046		0016		SV	
	vi.	Brake cylinder & Caliper			F16134/600,F16097/600 F16135/600,F16099/600		K16012/600,K16143/600 K16013/600,K16144/600		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							RNG	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LSCN-7002



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7005	DISPATCH DATE				26.05.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16246	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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)		SANROCK		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		GS	88/86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
i	BRAKE EQUIPMENT						FAIVELEY
ii	SEAT & BERTH						OVPL
iii	BODY SIDE DOORS						JVR
iv	WATER TANKS						RAIL TECH & MANOJ
v	FLOOR BOARD						TWPL
vi	PVC FLOORING						RESPONSIVE
vii	UIC VESTIBULE						ESCORTS
viii	VESTIBULE SLIDING DOOR						HANSPAL
	BIO						RAIL TECH, JSL
10.							
10.1	Modification / Trail (if any):						NIL
10.2	Deviations if any:						NIL



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7005	ER	LSCN	16246	05-05-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176414				176415			
	ii.	Frame No.	FIAT-5620				FIAT-5542			
	iii.	Bolster No.	6909-GT				6901-GT			
	iv.	Axle No.	W-3661		V-2003		V-1670		W-3127	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00154/6107	00169/6225	00067/7251	00109/6185	00098/6201	00170/6080	00074/6136	00053/7279
	viii.	R.B. Nos.	77406	76867	76738	77398	77207	79694	75896	77103
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	GBD-17-3-35	GBD-17-3-159	GBD-17-3-41	GBD-17-3-166	GBD-17-3-43	GBD-17-3-233	GBD-17-3-34	GBD-17-3-157	
ii.	Ht. at test load	516	471	516	472	516	471	516	470	
iii.	Align .deviation	6	6	6	5	7	9	6	5	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-17-03		FSK-17-03		FSK	
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK	
	iii.	Primary Damper			36236,36215,36184,36189		36268,36411,36242,36201		KONI	
	iv.	Secondary damper			040,041		050,038		GABRIEL	
	v.	Lateral Damper			0219		0251		SV	
	vi.	Brake cylinder & Caliper			K16116/600,K16039/600 K16117/600,K16038/600		N16018/600,N16017/600 N16017/600,N16051/600		FTI	
	vii.	Brake Disc							FTI,KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							AFW	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							PRAG	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	7001	DISPATCH DATE				15.05.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16245	
3.	Booked to		SSE/C&W/LILUAH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	GS	85/86		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
I	BRAKE EQUIPMENT		FAIVELEY				
ii	SEAT & BERTH		OVPL				
	BIO TOILET		RAIL TECH, JSL				
iii	BODY SIDE DOORS		SUKATA				
iv	WATER TANKS		RAIL FAB				
v	FLOOR BOARD		TWPL				
vi	PVC FLOORING		RESPONSIVE				
vii	UIC VESTIBULE		SSIPL				
viii	VESTIBULE SLIDING DOOR		HP				
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date				
			7001	ER	LWSCN	16245	03-05-2017				
11.1	Wheel & Axle Details:										
	i.	Bogie No.	176408			176409					
	ii.	Frame No.	FIAT-5617			FIAT-5673					
	iii.	Bolster No.	6917-P			6872-GT					
	iv.	Axle No.	W-3712		R-3521		S-9991		V-1446		
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	
	vi.	Wheel Dia.	917.00	917.00	916.00	916.00	917.00	917.00	917.00	917.00	
	vii.	Wheel Disc No.	00013/6225	00045/6107	00181/6180	00886/6198	00085/6136	00036/6187	00073/6070	00004/6132	
	viii.	R.B. Nos.	77599	76339	79521	79861	77780	22818	76358	80126	
	ix.	R.B. Make	SKF		SKF		SKF		SKF		
	x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:										
	Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.		GBD-17-3-054	GBD-17-3-212	GBD-17-3-045	GBD-17-3-325	GBD-17-3-055	GBD-17-3-208	GBD-17-3-076	GBD-17-3-209	
ii.	Ht. at test load		516	472	516	472	513	472	515	472	
iii.	Align .deviation		6	6	8	8	6	11	9	12	
11.3	Items traceability:										
	Sno.	Item							Make		
	i.	Primary Outer Spring			FSK-17-3		FSK-17-3		FSK		
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK		
	iii.	Primary Damper			36528,36478,36320,35665		36465,36565,36417,36526		KONI		
	iv.	Secondary damper			0242,0137		401,402		GEREP		
	v.	Lateral Damper			0216		0221		SV		
	vi.	Brake cylinder & Caliper			K16203/600,K16179/600 K16202/600,K16176/600		K16004/600,K16048/600 K16002/600,K16051/600		FTI		
	vii.	Brake Disc							KBI		
	viii.	Control arm top							KUMAR		
	ix.	Control arm bottom							KUMAR		
	x.	Top Rubber Pad							SGA		
	xi.	Vertical Bump Stop							GMT		
	xii.	Ball joint Control arm							MGN		
	xiii.	Lateral Bump stop							GMT		
	xiv.	Traction center make							EMSON		
	xv.	Traction lever make							AFW		
	xvi.	Ball joint traction lever							MGN		
	xvii.	Traction centre elastic							GMT		
	xviii.	Secondary rubber pad							TECSPAK		
	x ix.	Rubber spring							GMT		
	x x.	Anti roll bar make							SARITA		
	x xi.	Ball joint roll link							SARITA		
	x xii.	Fork make							EMSON		
11.4	i.	Modification / Trial (if any):				NIL					
	ii.	Deviations (if any):				NIL					



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	7003	DISPATCH DATE				12.05.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16247	
3.	Booked to		SSE/C&W/LILUAH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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)	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	GS	87/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i	BRAKE EQUIPMENT				FAIVELEY	
	ii	SEAT & BERTH				AAR KAY FOAMS	
		BIO TOILET				RAIL TECH, JSL	
	iii	BODY SIDE DOORS				JVR	
	iv	WATER TANKS				SHIVALIK, AMIT	
	v	FLOOR BOARD				NARBADA	
	vi	PVC FLOORING				RESPONSIVE	
	vii	UIC VESTIBULE				KRP	
	viii	VESTIBULE SLIDING DOOR				HP	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7003	ER	LWSCN	16247	03-05-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176406				176407			
	ii.	Frame No.	FIAT-5482				FIAT-5658			
	iii.	Bolster No.	6879-GT				6843-GT			
	iv.	Axle No.	N-6218		W-3237		W-3045		R-3213	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	916.50	916.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00043/7253	00093/7274	00047/7274	00136/7274	00045/6044	00028/6174	00102/6177	00165/6177
	viii.	R.B. Nos.	76115	22829	85981	77602	85996	86330	76686	77893
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
	x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	GBD-17-3-90	GBD-17-3-272	GBD-17-3-83	GBD-17-3-273	GBD-17-3-64	GBD-17-3-317	GBD-17-3-73	GBD-17-3-271	
ii.	Ht. at test load	516	472	516	472	516	472	515	472	
iii.	Align .deviation	9	5	7	5	7	12	7	6	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			RSK-15-4		RSK-15-4		RSK	
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK	
	iii.	Primary Damper			35303,36311,36474,36043		36342,35604,36309,36312		KONI	
	iv.	Secondary damper			376,213		339,385		GEREP	
	v.	Lateral Damper			0037		0491		SV	
	vi.	Brake cylinder & Caliper			K16151/600,K16163/600 K16150/600,K16161/600		M16244/600,M16247/600 M16229/600,M16221/600		FTI	
	vii.	Brake Disc							KBI,FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							AFW	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							SARITA	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6059	DISPATCH DATE				13.05.2017
2.	Railway	ER	Type	LWSCN	Coach No.	16244	
3.	Booked to		SSE/C&W/LILUAH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	GS	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	FAIVELEY				
		BIO TOILET	RAIL TECH, JSL				
	ii	SEAT & BERTH	OVPL				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	AMIT & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	SSIPL				
	viii	VESTIBULE SLIDING DOOR	HP				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6059	ER	LWSCN	16244	26-04-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176386			176387				
	ii.	Frame No.	FIAT-5566			FIAT-5637				
	iii.	Bolster No.	6892-GT			6907-GT				
	iv.	Axle No.	S-9231		S-9297		W-2909		W-2939	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00024/73 21	00038/61 91	00016/725 9	00027/61 92	00009/7 274	00032/72 92	00094/727 4	00084/72 57
	viii.	R.B. Nos.	80049	76687	76689	77405	22466	81632	73010	73330
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
	Description	Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	RSK-16-04-101	GBD-17-03-226	RSK-16-04-225	GBD-17-03-221	RSK-16-04-105	GBD-17-03-241	RSK-16-04-085	GBD-17-03-221	
ii.	Ht. at test load	516	472	516	472	515	471	515	469	
iii.	Align .deviation	4	5	7	9	7	8	9	11	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			FSK-16-07		FSK-16-12		FSK	
	iii.	Primary Damper			35393,35627,35364,35612		37800,35416,35642,35612		KONI	
	iv.	Secondary damper			0023,0020		005,007		GEREP	
	v.	Lateral Damper			0022		0025		SV	
	vi.	Brake cylinder & Caliper			H16287/600,H16019/600 H16284/600,K16028/600		M16272/600,M16290/600 M16271/600,M16294/600		FTI	
	vii.	Brake Disc							KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TESPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							SARITA	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							RNG	
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.	7006	DISPATCH DATE				26.05.2017
2.	Railway	ER	Type	LWSCN	Coach No.	16249	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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		1104	1104	
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		VIBGYOR	87/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
I	BRAKE EQUIPMENT			FAIVELEY			
	BIO TOILET			RAIL TECH, JSL			
ii	SEAT & BERTH			OVPL			
iii	BODY SIDE DOORS			JVR			
iv	WATER TANKS			AMIT & SHIVALIK, RAIL TECH			
v	FLOOR BOARD			TWPL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			ESCORTS			
viii	VESTIBULE SLIDING DOOR			HP			
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		
			7006	ER	LWSCN	16249	06-05-2017		
11.1	Wheel & Axle Details:								
i.	Bogie No.	176418				176419			
ii.	Frame No.	FIAT-5644				FIAT-5638			
iii.	Bolster No.	6931-P				6944-P			
iv.	Axle No.	N-0489		R-3098		V-1492		S-9610	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
vii.	Wheel Disc No.	00134/6110	00124/7321	00156/6187	00196/6177	00194/6136	00007/6136	00072/6223	00133/7250
viii.	R.B. Nos.	76338	76572	77367	80042	76346	77394	75948	76581
ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:								
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side	
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	Make & nos.	GBD-17-3-18	GBD-17-3-3269	GBD-17-3-41	GBD-17-3-16	GBD-17-3-56	GBD-17-3-30	GBD-17-3-20	GBD-17-3-13
ii.	Ht. at test load	515	472	516	470	516	469	516	471
iii.	Align .deviation	9	9	7	6	8	12	8	11
11.3	Items traceability:								
	Sno.	Item					Make		
	i.	Primary Outer Spring			FSK-17-3		FSK-17-3		FSK
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK
	iii.	Primary Damper			36471,36181,36608,36341		35126,35325,36368,36192		KONI
	iv.	Secondary damper			026,022		020,012		GABRIEL
	v.	Lateral Damper			0028		NIL		SV
	vi.	Brake cylinder & Caliper			K16176/600,K16222/600 K16177/600,K16220/600		M16013/600,M16347/600 M16015/600,M16339/600		FTI
	vii.	Brake Disc							KBI
	viii.	Control arm top							KUMAR
	ix.	Control arm bottom							KUMAR
	x.	Top Rubber Pad							SGA
	xi.	Vertical Bump Stop							GMT
	xii.	Ball joint Control arm							MGN
	xiii.	Lateral Bump stop							GMT
	xiv.	Traction center make							EMSON
	xv.	Traction lever make							AFW
	xvi.	Ball joint traction lever							MGN
	xvii.	Traction centre elastic							GMT
	xviii.	Secondary rubber pad							TECSPAK
	xix.	Rubber spring							GMT
	xx.	Anti roll bar make							SARITA
	xxi.	Ball joint roll link							SARITA
	xxii.	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.	7004	DISPATCH DATE				26.05.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16248	
3.	Booked to		SSE/C&W/LILUAH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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)	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	VIBGYOR	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	OVPL				
	iii	BODY SIDE DOORS	JVR				
	iv	WATER TANKS	RAIL TECH & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	viii	VESTIBULE SLIDING DOOR	HANSPAL				
			RAIL TECH, JSL				
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			
			7004	ER	LSCN	16248	04-05-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176410			176411				
	ii.	Frame No.	FIAT-5674			FIAT-5641				
	iii.	Bolster No.	6916-P			6918-P				
	iv.	Axle No.	S-1758		V-1544		V-1811		S-9323	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00149/6185	00016/7321	00026/6187	00014/6136	00057/6179	00169/6070	00009/6177	00123/6177
	viii.	R.B. Nos.	76671	77090	79753	76096	79499	78753	80086	79853
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	GBD-17-3-63	GBD-17-3-292	GBD-17-3-36	GBD-17-3-327	GBD-17-3-338	GBD-17-3-231	GBD-17-3-27	GBD-17-3-315	
ii.	Ht. at test load	516	472	516	472	515	471	513	471	
iii.	Align .deviation	9	9	9	9	7	12	7	9	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-17-03		FSK-17-03		FSK	
	ii.	Primary inner Spring			FSK-16-07		FSK-16-07		FSK	
	iii.	Primary Damper			36221,36414,36208,36423		36418,36589,36282,36175		KONI	
	iv.	Secondary damper			036,007		387,397		GABRIEL, GEREPEP	
	v.	Lateral Damper			0241		0276		SV	
	vi.	Brake cylinder & Caliper			L16087/600,L16058/600 L16016/600,L16035/600		M16256/600,M16296/600 M16253/600,M16297/600		FTI	
	vii.	Brake Disc							KBI,FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							AFW	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

