



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6058	DISPATCH DATE				10.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16227	
3.	Booked to		SSE/C&W/HWH				
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	1100		
	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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	AMIT, RAIL TECH & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	HANSPAL				
		BIO TOILET	RAIL FAB, JSL				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6058	ER	LSCN	16227/C	13-01-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	176039				176040			
	ii.	Frame No.	SCI/FM-732				FIAT-5368			
	iii.	Bolster No.	6514-P				6482-P			
	iv.	Axle No.	S-9605		N-9614		N-6243		S-9830	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00105-6045	00178-6104	00191-6103	00160-6045	00077-6104	00045-6104	00116-6104	00179-6045
	vii.	R.B. Nos.	80483	99946	97915	98147	97575	97907	99960	93983
	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.	RSK-16-4-169	RSK-15-4-412	RSK-16-4-147	RSK-15-4-485	RSK-16-4-382	RSK-15-4-595	RSK-16-4-352	RSK-15-4-490	
ii.	Ht. at test load	516	470	516	470	514	469	513	470	
iii.	Align .deviation	3	4	5	9	10	12	12	16	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			FSK-16-7		FSK-16-7		FSK	
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			36494,36054,36316,36569		36363,36455,36613,36484		KONI	
	iv.	Secondary damper			3,907		19,431		GEREP	
	v.	Lateral Damper			0206		0591		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16013/600,G16094/600 G16014/600,G16093/600		G16053/600,G16085/600 G16057/600,G16081//600		FTI	
	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							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAK	
	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			

LSCN-6058



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6050	DISPATCH DATE				03.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16228	
3.	Booked to		SSE/C&W/HWH				
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	1100		
	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				KBI	
	ii	SEAT & BERTH				SAVITRI	
	iii	BODY SIDE DOORS				SUKATA	
	iv	WATER TANKS				AMIT, RAIL FAB & SHIVALIK	
	v	FLOOR BOARD				TWPL	
	vi	PVC FLOORING				RESPONSIVE	
	vii	UIC VESTIBULE				KRP	
	viii	VESTIBULE SLIDING DOOR				HANSPAL	
		BIO TOILET				RAIL FAB, 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			
			6050	ER	LSCN	16228	25-02-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176171			176172				
	ii.	Frame No.	SCI-FM-813			SCI-FM-774				
	iii.	Bolster No.	6677-P			6673-P				
	iv.	Axle No.	P-9299		S-9753		K-5880		S-1842	
	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.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vii.	Wheel Disc No.	00179-6180	00160-6193	00187-7321	00109-6203	00176-6216	00044-6179	00077-6179	00015-6215
	viii.	R.B. Nos.	87967	78017	29815	78834	79002	76026	79602	76031
	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-16-05-063	RSK-16-04-392	GBD-16-05-031	RSK-16-04-301	GBD-16-05-07	RSK-16-04-661	GBD-16-05-029	RSK-16-04-726	
ii.	Ht. at test load	514	471	516	470	516	472	516	470	
iii.	Align .deviation	7	4	7	6	5	9	5	10	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			FSK-16-12		FSK-16-12		FSK	
	iii.	Primary Damper			35459,35522,35541,35694		36315,36329,35464,35490		KONI	
	iv.	Secondary damper			0394,033		0217,0422		GEREP	
	v.	Lateral Damper			0328		0517		SV	
	vi.	Brake cylinder & Caliper			4796/691,4749/691 4793/691,4758/691		4832/691,4724/691 4851/691,4723/691		KBI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							GMT	
	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							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							SARITA,EMSON	
	x xi.	Ball joint roll link							SF/MGN	
	x xii.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6056	DISPATCH DATE				09.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16229	
3.	Booked to		SSE/C&W/HWH				
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	1102	1100		
	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	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	AMIT, MANOJ & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	HANSPAL				
		BIO TOILET	RAIL FAB, JSL				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6056	ER	LSCN	16229/C	01-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176184			176185				
	ii.	Frame No.	SCI/FM-817			SCI/FM-810				
	iii.	Bolster No.	6678-P			6689-P				
	iv.	Axle No.	S-9993		S-9241		K-3606		R-3520	
	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	917.00	916.50	916.50	917.00	917.00	916.50	916.50
	vii.	Wheel Disc No.	00193/62 25	00124/62 01	00116/621 9	00038/62 03	00134/6 048	00073/61 16	0059/6048	00154/60 48
	viii.	R.B. Nos.	77728	77725	87045	78091	76902	76560	76329	76245
	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-16-6-15	RSK-16-4-663	GBD-16-6-30	RSK-16-4-719	GBD-16-6-34	RSK-16-4-733	GBD-16-6-56	RSK-16-4-692	
ii.	Ht. at test load	514	472	516	471	516	472	515	472	
iii.	Align .deviation	6	6	6	5	5	11	5	6	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			FSK-16-11		FSK-16-11		FSK	
	iii.	Primary Damper			35491,36285,35503,36202		36051,36576,35544,35495		KONI	
	iv.	Secondary damper			237,15		32,209		GEREP	
	v.	Lateral Damper			524		0519		SV	
	vi.	Brake cylinder & Caliper			4867/691,4755/691 4869/691,4753/691		4866/691,4750/691 4865/691,4754/691		KBI	
	vii.	Brake Disc							KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							GMT	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPA	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA, EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6069	DISPATCH DATE				29.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16232	
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	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	AMIT, MANOJ & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	viii	VESTIBULE SLIDING DOOR	HANSPAL				
		BIO TOILET	RAIL FAB, 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			
			6069	ER	LSCN	16232	18-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176241				176242			
	ii.	Frame No.	FIAT-5524				FIAT-5561			
	iii.	Bolster No.	6752-P				6659-GT			
	iv.	Axle No.	T-0046		S-9585		S-9803		R-3602	
	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.	916.00	916.00	916.50	916.00	916.00	916.50	916.00	916.00
	vii.	Wheel Disc No.	00106/62 03	00171/73 21	00193/617 7	00005/62 19	00196/6 061	00101/60 88	00064/610 3	00145/61 03
	viii.	R.B. Nos.	76717	77157	76119	77413	73120	75998	76874	76765
	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-16-4-120	RSK-16-10-688	RSK-16-4-270	RSK-16-10-679	RSK-16-4-106	RSK-16-10-618	RSK-16-4-236	RSK-16-10-746	
ii.	Ht. at test load	516	471	515	472	514	472	515	471	
iii.	Align .deviation	6	12	9	14	4	7	6	10	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			G-15-2		G-15-2		GF	
	iii.	Primary Damper			36657,37070,37053,37057		36843,36851,36938,37115		KONI	
	iv.	Secondary damper			0305,0224		026,019		GEREP	
	v.	Lateral Damper			0456		0470		SV	
	vi.	Brake cylinder & Caliper			K16035/600,K16217/600 H16230/600,K16210/600		M16281/600,M16309/600 M16279/600,M16311/600		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							SGA	
	xvii.	Traction centre elastic							SGA	
	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				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6057	DISPATCH DATE				16.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16230	
3.	Booked to		SSE/C&W/HWH				
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	1100	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	86/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	MANOJ, SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	viii	VESTIBULE SLIDING DOOR	HANSPAL				
		BIO TOILET	RAIL FAB, JSL				
10.							
	10.1	Modification / Trail (if any):	NIL				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6057		ER		LSCN		16230/C		10-01-2017	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	176027					176028				
	ii.	Frame No.	FIAT-5357					FIAT-5426				
	iii.	Bolster No.	6545-P					6554-P				
	iv.	Axle No.	N-0406		R-3642			R-2862		R-2653		
	v.	Wheel Dia.	917.00	917.00	917.0	917.00	917.00	917.00	917.0	917.00	917.0	917.00
	vi.	Wheel Disc No.	06230-6QG2	06502-6QM1	00102-6179	00078-6070	00070-6067	00169-6176	00047-6178	00039-6179		
	vii.	R.B. Nos.	88309	93900	81257	81027	93871	93978	86680	86691		
	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.	Rsk-16-4-122	Rsk-16-4-883	Rsk-16-4-152	Rsk-16-4-580	Rsk-16-4-109	Rsk-16-4-955	Rsk-16-4-246	Rsk-16-4-974			
ii.	Ht. at test load	514	470	515	472	516	469	514	472			
iii.	Align .deviation	6	4	7	6	5	4	7	5			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-16-7			FSK-16-7			FSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			359,406,490,364			409,439,521,366			GABRIEL	
	iv.	Secondary damper			01,148			130,506			GEREP	
	v.	Lateral Damper			0259			0277			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G16011/600,G16088/600 G16012/600,G16086/600			G16016/600,G16092/600 G16075/600,G16095/600			FTI	
	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									SGA	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TECSPAK	
	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							



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6063	DISPATCH DATE				21.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16231	
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	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	MANOJ, SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	viii	VESTIBULE SLIDING DOOR	HANSPAL				
		BIO TOILET	RAIL FAB, JSL				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6063	ER	LSCN	16231/C	09-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176211			176212				
	ii.	Frame No.	FIAT-5568			FIAT-5556				
	iii.	Bolster No.	6719-P			6711-P				
	iv.	Axle No.	R-3434		S-1450					
	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.	00136/62 02	0078/618 8	00121/618 3	00125/61 80	00171/6 188	00173/60 69	00032/621 2	00075/61 05
	viii.	R.B. Nos.	79076	76089	73255	79112	77366	78985	79931	76405
	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-16-4-280	RSK-16-4-320	RSK-16-4-202	RSK-16-4-616	RSK-16-4-208	RSK-16-4-477	RSK-16-4-206	RSK-16-4-608	
ii.	Ht. at test load	512	472	512	468	514	471	516	470	
iii.	Align .deviation	9	6	13	12	10	13	9	13	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			G-12-02		G-12-02		GF	
	iii.	Primary Damper			35901,35833,35708,35885		35892,35881,35712,35909		KONI	
	iv.	Secondary damper			014,0220		023,018		GEREP	
	v.	Lateral Damper			0463		0471		SV	
	vi.	Brake cylinder & Caliper			H16288/600,K16142/600 H16280/600,K16140/600		K16128/600,K16166/600 K16131/600,K16169/600		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							GMT	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN,SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TESPAK	
	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				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6071	DISPATCH DATE				28.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16233	
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	1103		
	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	85/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i	BRAKE EQUIPMENT				FAIVELEY	
	ii	SEAT & BERTH				SAVITRI	
	iii	BODY SIDE DOORS				SUKATA	
	iv	WATER TANKS				MANOJ & SHIVALIK	
	v	FLOOR BOARD				TWPL	
	vi	PVC FLOORING				RESPONSIVE	
	vii	UIC VESTIBULE				ESCORTS	
	viii	VESTIBULE SLIDING DOOR				HP	
		BIO TOILET				RAIL FAB, 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			
			6071	ER	LSCN	16233	21-03-2017			
11.1	WHEEL & AXLE DETAILS:									
	I.	BOGIE NO.	176250				176251			
	II.	FRAME NO.	FIAT-5507				FIAT-5563			
	III.	BOLSTER NO.	6759-P				6765-P			
	IV.	AXLE NO.	N-5948		R-3386		R-2660		K-6400	
	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	916.00	916.00	916.00	916.00
	VII.	WHEEL DISC NO.	00096/6103	00023/6202	00020/6225	00081/6069	00109/6067	00025/6067	00148/6069	00124/6103
	VIII.	R.B. NOS.	86745	79669	80146	86538	86752	88075	79623	86267
	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 SIDE	DAMPER	NON LAT. SIDE	DAMPER	LATERAL SIDE	DAMPER	NON LAT. SIDE	DAMPER	
		OUTER	INNER	OUTER	INNER	OUTER	INNER	OUTER	INNER	
I.	MAKE & NOS.	RSK-16-4-082	RSK-16-4-435	RSK-16-4-080	RSK-16-4-682	RSK-16-4-179	RSK-16-4-630	RSK-16-4-089	RSK-16-4-318	
II.	HT. AT TEST LOAD	516	471	516	472	514	471	514	469	
III.	ALIGN .DEVIATION	11	14	7	10	6	13	6	9	
11.3	ITEMS TRACEABILITY:									
	SNO.	ITEM							MAKE	
	I.	PRIMARY OUTER SPRING				FSK-16-12		FSK-16-12		FSK
	II.	PRIMARY INNER SPRING				G-15-02		G-15-02		GF
	III.	PRIMARY DAMPER				37343,37369,37418,37403		37489,37497,37503,37344		KONI
	IV.	SECONDARY DAMPER				0237,012		024,0207		GEREP
	V.	LATERAL DAMPER				0474		0558		SV
	VI.	BRAKE CYLINDER & CALIPER				M16080/600,M16390/600 M16086/600,M16393/600		M16023/600,M16359/600 M16295/600,M16360/600		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								AWF,EMSON
	XV.	TRACTION LEVER MAKE								SARITA
	XVI.	BALL JOINT TRACTION LEVER								SGA
	XVII.	TRACTION CENTRE ELASTIC								SGA
	XVIII.	SECONDARY RUBBER PAD								TECSPAK
	XIX.	RUBBER SPRING								GMT
	XX.	ANTI ROLL BAR MAKE								EMSON
	XXI.	BALL JOINT ROLL LINK								SARITA
	XXII.	FORK MAKE								SARITA
11.4	I.	MODIFICATION / TRIAL (IF ANY):				NIL				
	II.	DEVIATIONS (IF ANY):				NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6067	DISPATCH DATE				28.03.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16234	
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	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		SAVITRI			
	iii	BODY SIDE DOORS		SUKATA			
	iv	WATER TANKS		MANOJ & SHIVALIK, AMIT			
	v	FLOOR BOARD		TWPL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		ESCORTS			
	viii	VESTIBULE SLIDING DOOR		HP			
		BIO TOILET		RAIL FAB, 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			
			6067	ER	LSCN	16234	20-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176245				176246			
	ii.	Frame No.	FIAT-5541				FIAT-5569			
	iii.	Bolster No.	6744-P				6756-P			
	iv.	Axle No.	S-3463		S-1651		N-1070		S-3423	
	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.	00196/6193	00170/6108	00106/6196	00054/6193	00034/6067	00174/6201	00181/6132	00031/6103
	viii.	R.B. Nos.	77375	78906	87229	86265	77051	78955	86285	86283
	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-16-4-097	RSK-16-4-311	RSK-16-4-019	RSK-16-4-1716	RSK-16-4-104	RSK-16-4-1452	RSK-16-4-249	RSK-16-4-322	
ii.	Ht. at test load	514	472	515	470	515	472	516	472	
iii.	Align .deviation	2	3	4	8	4	3	6	3	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			G-15-02		G-15-02		GF	
	iii.	Primary Damper			36645,37110,36856,38245		36841,36758,36658,36928		KONI	
	iv.	Secondary damper			018,0261		0379,0203		GEREP	
	v.	Lateral Damper			0433		0476		SV	
	vi.	Brake cylinder & Caliper			M16313/600,M16324/600 M16145/600,M16326/600		M16153/600,M16379/600 M16156/600,M16375/600		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							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							EMSON, SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				