



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6068	DISPATCH DATE				06/04/17
2.	Railway	NR	Type	LWLRRM	Coach No.		163993
3.	Booked to			SSE/C&W/DLI			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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 <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		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIO-TOILET			RAIL TECH		
	iv.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI		
	viii.	WATER TANKS			AMIT & AMIT		
	ix	FUEL TANK			SHIVALIK		
	x	UIC VESTIBULE			ESCORT		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6068	NR	LWLRRM	163993	10-03-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176203				176215			
	ii.	Frame No.	FIAT-5423				ECBT-018			
	iii.	Bolster No.	6700-P				6730-P			
	iv.	Axle No.	S-9988		S-9472		N-0877		K-5862	
	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	916.00	916.00	916.00	916.00
	vii.	Wheel Disc No.	00060/6069	00104/6219	00034/6219	00123/6116	00142/6198	0001/6217	00151/6198	00084/6215
	viii.	R.B. Nos.	76097	73260	72970	73227	77304	76061	75915	94087
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		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.	G-15-9-047	G-15-10-151	G-15-9-069	G-15-10-133	RSK-16-10-541	GBD-15-12-10	RSK-16-10-501	GBD-15-12-11	
ii.	Ht. at test load	510	466	511	466	513	470	511	468	
iii.	Align .deviation	8	12	8	14	9	8	7	6	
11.3	<b>Items traceability:</b>									
	Sno.	Item				Make				
	i.	Primary Outer Spring			L&S-15-12	L&S-15-12			L&S	
	ii.	Primary inner Spring			FSK-16-07	L&S-15-11			FSK ,L&S	
	iii.	Primary Damper			36200,35878,35858,36258	35724,35898,35856,35938			KONI	
	iv.	Secondary damper			0180,0105	0127,0157			SV	
	v.	Lateral Damper			0448	0562			SV	
	vi.	Brake cylinder & Caliper							-----	
	vii.	Brake Disc							FTI,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							EMSON,SARITA	
	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 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6072	DISPATCH DATE				17/04/17
2.	Railway	NR	Type	LWLRRM	Coach No.	163681	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	1102	
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 <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		GS	86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAVELLY		
iii.	BIO-TOILET				RAIL TECH		
iv.	SEATS/S&B				AMIR CHAND		
v.	BODY SIDE DOOR				JVR		
vi.	VESTIBULE SLIDING DOOR				HANSPAL		
vii.	CREW-GEN & GUARD ROOM DOOR				JBM/KALSI		
viii.	WATER TANKS				RAIL TECH & AMIT		
ix	FUEL TANK				SHIVALIK		
x	UIC VESTIBULE				ESCORT		
XI	FLOOR BOARD				NARBADA		
XII	PVC				RESPONSIVE		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6072	NR	LWLRRM	163681	22-03-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176257				176255			
	ii.	Frame No.	FIAT-5579				SCI/FM-796			
	iii.	Bolster No.	6773-P				6751-P			
	iv.	Axle No.	S-9210		T-0008		N-5653		R-3084	
	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	917.50	917.00	917.00	917.50	917.00	917.00
	vii.	Wheel Disc No.	00064/6183	00106/6191	00080/6107	00072/6067	00129/6067	00142/6134	00033/6069	00046/6067
	viii.	R.B. Nos.	79937	83545	81016	87577	87969	77401	77402	87259
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		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.	G-15-9-099	G-15-10-180	G-15-9-092	G-15-10-183	RSK-16-10-788	G-15-10-185	RSK-16-10-729	G-15-10-174	
ii.	Ht. at test load	510	467	510	466	510	469	513	469	
iii.	Align .deviation	10	7	11	10	3	3	3	4	
11.3	<b>Items traceability:</b>									
	Sno.	Item							Make	
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			37208,37466,36875,36913		37176,37221,37454,37486		KONI	
	iv.	Secondary damper			0622,0634		0769,0792		SV	
	v.	Lateral Damper			0567		0568		SV	
	vi.	Brake cylinder & Caliper			K16044/2000,N16013/2000 A17023/2000,A17009/2000		M16026/2000,K16011/2000 M16028/2000,M16002/2000		KBI	
	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 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6075	DISPATCH DATE				18/04/17
2.	Railway	NR	Type	LWLRRM	Coach No.	163683	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	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 <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	GS	86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			ESCORT		
	iii.	BIO-TOILET			RAIL TECH		
	iv.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI		
	viii.	WATER TANKS			AMIT		
	ix	FUEL TANK			SHIVALIK FASTENER		
	x	UIC VESTIBULE			ESCORT		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6075	NR	LWLRRM	163683	20-03-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176237				176238			
	ii.	Frame No.	FIAT-5550				SCI/FM-801			
	iii.	Bolster No.	6713-P				6746-GT			
	iv.	Axle No.	R-3659		N-6261		S-9879		S-9746	
	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.	00048/6044	00069/6044	00120/6202	00085/6202	00111/6107	00121/6070	00011/6212	00164/6201
	viii.	R.B. Nos.	78751	77520	78864	87588	87003	76280	87593	72779
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		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.	G-15-9-014	G-15-10-163	G-15-9-019	G-15-10-174	RSK-16-10-500	G-15-10-234	RSK-16-10-467	G-15-10-126	
ii.	Ht. at test load	509	466	510	466	515	469	515	468	
iii.	Align .deviation	15	5	14	3	3	5	6	5	
11.3	<b>Items traceability:</b>									
	Sno.	Item						Make		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			36763,36937,36678,36642		36911,36883,36653,37074		KONI	
	iv.	Secondary damper			0246,0206		0205,0120		SV	
	v.	Lateral Damper			0585		0492		SV	
	vi.	Brake cylinder & Caliper			19221/2210,19299/2122 19115/2120,19293/2212		19278/2210,19113/2120 19274/2210,19114/2120		ESCORTS	
	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 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6071	DISPATCH DATE				05/04/17
2.	Railway	NR	Type	LWLRRM	Coach No.	163992	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	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 <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	GS	89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAVELLY			
	iii.	BIO-TOILET		RAIL TECH			
	iv.	SEATS/S&B		AMIR CHAND			
	v.	BODY SIDE DOOR		SUKATA			
	vi.	VESTIBULE SLIDING DOOR		HANSPAL			
	vii.	CREW-GEN & GUARD ROOM DOOR		JBM/CP			
	viii.	WATER TANKS		AMIT			
	ix	FUEL TANK		SHIVALIK FASTENER			
	x	UIC VESTIBULE		ESCORT			
	XI	FLOOR BOARD		NARBADA			
	XII	PVC		RESPONSIVE			
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6071	NR	LWLRRM	163992	17-03-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176240				176239			
	ii.	Frame No.	FIAT-5430				FIAT-5467			
	iii.	Bolster No.	6729-P				6716-P			
	iv.	Axle No.	N-1015		K-3839		S-9926		S-1990	
	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.	918.00	918.00	918.00	918.00	918.00	918.00	918.00	917.50
	vii.	Wheel Disc No.	00050/6219	00067/6196	00041/6106	00065/6106	00095/6177	00172/6212	00127/6216	00183/6179
	viii.	R.B. Nos.	76543	76146	76685	79140	76114	79817	77894	79699
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		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.	G-15-9-044	G-15-10-201	G-15-9-044	G-15-10-201	RSK-16-9-506	G-15-10-230	RSK-16-9-644	G-15-10-148	
ii.	Ht. at test load	510	465	510	465	515	469	515	468	
iii.	Align .deviation	12	14	12	14	4	3	4	2	
11.3	<b>Items traceability:</b>									
	Sno.	Item					Make			
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			36925,37044,36899,36700		37122,37043,36661,36947		KONI	
	iv.	Secondary damper			0093,0061		0101,0068		SV	
	v.	Lateral Damper			0468		0551		SV	
	vi.	Brake cylinder & Caliper			A17030/2000,A17012/2000 A17025/2000,A17016/2000		A17028/2000,A17020/2000 A17029/2000,A16001/2000		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							TECSPAК	
	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 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6074	DISPATCH DATE				08.04.2017
2.	Railway	NR	Type	LWLRRM	Coach No.	163994	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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 <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		GS	85	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT			FAVELLY			
iii.	BIO-TOILET			RAIL TECH			
iv.	SEATS/S&B			AAR KAY FOAMS			
v.	BODY SIDE DOOR			JVR			
vi.	VESTIBULE SLIDING DOOR			HP			
vii.	CREW-GEN & GUARD ROOM DOOR			JBM/CP			
viii.	WATER TANKS			AMIT			
ix	FUEL TANK			SHIVALIK			
x	UIC VESTIBULE			KRP			
XI	FLOOR BOARD			NARBADA			
XII	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



11.	<b>Bogie Details:</b>		<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>			
			6074	NR	LWLRRM	163994/C	22-03-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		<b>Gen.van side 1 hand brake</b>				<b>Gen.van side 2</b>			
	i.	<b>Bogie No.</b>	176254				176253			
	ii.	<b>Frame No.</b>	FIAT-5491				FIAT-5565			
	iii.	<b>Bolster No.</b>	6763-P				6755-P			
	iv.	<b>Axle No.</b>	N-6809		N-0528		N-0374		R-3450	
	v.	<b>Items/locations</b>	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	<b>Wheel Dia.</b>	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	<b>Wheel Disc No.</b>	00054/6067	00100/6068	00066/6067	00024/6067	00120/6043	00050/6225	00101/6202	00044/6069
	viii.	<b>R.B. Nos.</b>	73321	80147	76284	77395	87262	87251	76842	79625
	ix.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF	
x.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		<b>Lateral Damper Side</b>		<b>Non Lat. Damper side</b>		<b>Lateral Damper Side</b>		<b>Non Lat.Damper side</b>		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	<b>Make &amp; nos.</b>	G-15-09-100	G-15-10-123	G-15-09-119	G-15-10-167	RSK-16-9-186	G-15-10-132	RSK-16-9-292	G-15-10-090	
ii.	<b>Ht. at test load</b>	510	466	512	466	513	470	515	471	
iii.	<b>Align .deviation</b>	10	22	8	15	6	4	3	3	
11.3	<b>Items traceability:</b>									
	<b>Sno.</b>	<b>Item</b>						<b>Make</b>		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			37501,37477,37473,37328		37237,37231,37017,37449		KONI	
	iv.	Secondary damper			0715,0611		0667,0670		SV	
	v.	Lateral Damper			0597		0481		SV	
	vi.	Brake cylinder & Caliper			A17037/2000,A17002/2000 M16007/2000,A17006/2000		A17017/2000,A17016/2000 A17012/2000,A17009/2000		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							AWF, 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.	<b>Modification / Trial (if any):</b>				NIL				
	ii.	<b>Deviations (if any):</b>				NIL				

