



**रेल डिब्बा कारखाना, कपूरथला**  
**Rail Coach Factory , Kapurthala**

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**ROLLING STOCK CERTIFICATE**

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6121	DISPATCH DATE			<b>15.04.17</b>
2.	Railway	ER	Type	LWACCN	Coach No.	<b>17121</b>
3.	Booked to	<b>SSE/C&amp;W/LILLUAH</b>				
4.	Tare Weight of Coach	<b>45.6 T</b>				
5.	Carrying Capacity	Seating	72	Sleeping	72	Luggage <b>NIL</b>
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 )	<b>ESCORT</b>	<b>Fiba Device</b>	<b>NIL</b>	
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	3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80	
			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	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>86</b>	
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>			
	8.3	INSUALTION	<b>SATISFACTORY</b>			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT	<b>FAIVELEY</b>			
	ii.	BIO TOILET	<b>RAIL TECH+MK</b>			
	iii.	SEATS/ BERTHS	<b>OVPL</b>			
	iv.	BODY SIDE DOOR	<b>JBM,JVR</b>			
	v.	VESTIBULE SLIDING DOOR	<b>HANSPAL</b>			
	vi.	COMPARTMENT DOOR	<b>RAIL TECH</b>			
	vii.	WATER TANKS	<b>SHIVALIK(AUX) AMIT(U/S)</b>			
	viii.	UIC VESTIBULE	<b>SSIPL</b>			
	ix	<b>FLOOR BOARD</b>	<b>NARBADA</b>			
	X	<b>PVC</b>	<b>RESPONSIVE</b>			
10.						
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
	10.2	Deviations if any:			NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6121		ER		LACCN		17121		20-01-2017	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	176035					176036				
	ii.	<b>Frame No.</b>	SCI/FM-731					FIAT-5417				
	iii.	<b>Bolster No.</b>	6553-P					6519-P				
	iv.	<b>Axle No.</b>	R-3255		N-0480			R-2436		R-3609		
	v.	<b>Wheel Dia.</b>	916.00	916.00	917.00	917.00	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	00038-6067	00011-6044	07120-6QJ4	07586-6QK4	00191-6133	00005-6133	00038-6045	00015-6070		
	vii.	<b>R.B. Nos.</b>	80512	99520	94754	94760	98125	94752	93902	93559		
	viii.	<b>R.B. Make</b>	SKF		SKF			SKF		SKF		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	RSK-16-10-668	FSK-16-11-127	RSK-16-10-25	FSK-16-11-88	RSK-16-10-246	FSK-16-11-92	RSK-16-10-275	FSK-16-11-34			
ii.	<b>Ht. at test load</b>	514	466.50	516	466	513	467	513	467.50			
iii.	<b>Align .deviation</b>	2	8	4	9	6	7	9	7			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			L&S-12-4			L&S-12-4			L&S	
	ii.	Primary inner Spring			L&S-15-11			L&S-15-11			L&S	
	iii.	Primary Damper			35976,35923,35950,35968			35928,35956,35912,35911			KONI	
	iv.	Secondary damper			0307,0340			0260,0333			SV	
	v.	Lateral Damper			0016			0002			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									-----	
	viii.	Brake Disc									KBI,FTI	
	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, EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6117	DISPATCH DATE				18.04.17
2.	Railway	ER	Type	LWACCN	Coach No.	17122	
3.	Booked to	SSE/C&W/LILLUAH					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	CBC (Make )	ESCORT	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	3.80 ± 0.15 Kg/cm <sup>2</sup>	3.80		
			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	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	RAIL TECH+ORIENTAL PVT				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HANSPAL				
	vi.	COMPARTMENT DOOR	RAIL TECH				
	vii.	WATER TANKS	SHIVALIK(AUX) AMIT& KUTEER(U/S)				
	viii.	UIC VESTIBULE	SSIPL				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date		
			6117	ER	LACCN	17122	17-02-2017		
11.1	<b>Wheel &amp; Axle Details:</b>								
i.	Bogie No.	176141				176142			
ii.	Frame No.	FIAT-5469				FIAT-5472			
iii.	Bolster No.	6634-P				6646-GT			
iv.	Axle No.	R-3240		R-3401		S-9990		R-2840	
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	917.50	917.00	917.00	917.00	917.00
vii.	Wheel Disc No.	00016-6014	00080-6067	00028-6110	00192-6129	00009-6102	00175-6102	00027-6110	00036-6110
viii.	R.B. Nos.	79551	79079	76099	79684	71971	86972	76311	76268
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>								
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.	G-15-9-413	GBD-16-10-62	G-15-9-343	GBD-16-10-217	G-15-9-411	GBD-16-10-193	G-15-9-355	GBD-16-10-198
ii.	Ht. at test load	511	468	510	468	513	468	512	468
iii.	Align .deviation	19	7	18	7	20	6	18	6
11.3	<b>Items traceability:</b>								
	Sno.	Item						Make	
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK
	ii.	Primary inner Spring			FSK-16-17		FSK-16-11		FSK
	iii.	Primary Damper			37022,36901,37130,37228		37154,37148,36787,37151		KONI
	iv.	Secondary damper			0318,0462		0321,0354		SV
	v.	Lateral Damper			0065		0587		SV
	vi.	Yaw Damper							NIL
	vii.	Brake cylinder & Caliper			K16022/600,K16062/600 K16020/600,K16058/600		M16396/600,M16387/600 M16160/600,M16389/600		FTI
	viii.	Brake Disc							FTI
	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							SGA
	xv.	Secondary rubber pad							TECSPAK
	xvi.	Rubber spring							GMT
	xvii.	Anti roll bar make							EMSON
	xviii.	Ball joint roll link							SARITA
	xix.	Fork make							EMSON
11.4	i.	Modification / Trial (if any):				NIL			
	ii.	Deviations (if any):				NIL			

