



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6021	DISPATCH DATE				05.05.2017
2.	Railway	ER	Type	LFCWAC	Coach No.	16029	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	43.6 T					
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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 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		VIBGOR	85/86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		FAIVELEY				
ii.	CDTS/ BIO TOILET		RAIL TECH, JSL				
iii.	SEATS/ BERTHS		AAR KAY FOAMS				
iv.	BODY SIDE DOOR		JVR, SUKATA				
v.	VESTIBULE SLIDING DOOR		HP				
vi.	SALOON DOOR		KALSI				
vii.	WATER TANKS		SHIVALIK, AMIT				
viii.	UIC VESTIBULE		KRP				
ix	FLOOR BOARD		NARBADA				
x	PVC FLOORING		RESPONSIVE				
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6021	ER	LWFAC	16029/C	19-04-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176362				176363			
	ii.	Frame No.	ECBT-034				ECBT-035			
	iii.	Bolster No.	6871-GT				6880-GT			
	iv.	Axle No.	S-9764		W-3134		W-3367		W-3044	
	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	916.50	916.50	917.00	916.00	916.00
	vii.	Wheel Disc No.	00082/7260	00103/7260	08190/6016	07579/06QK4	00161/6217	00049/6178	00088/6178	00126/6178
	viii.	R.B. Nos.	77101	79519	77881	76600	79635	76601	79491	79712
	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.	FSK-17-2-17	GBD-16-10-199	FSK-17-2-35	GBD-16-12-8	FSK-17-2-22	GBD-16-12-9	FSK-17-2-65	GBD-16-12-1	
ii.	Ht. at test load	510	466	509	467	509.50	468	511.50	468	
iii.	Align .deviation	10	10	7	9	12	12	9	11	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-17-1		FSK-17-1		FSK	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			37638,37776,37589,37760		37739,37650,37804,37764		KONI	
	iv.	Secondary damper			0783,0764		0796,0799		SV	
	v.	Lateral Damper			0197		0168		SV	
	vi.	Brake cylinder & Caliper			M16264/600,N16004/600 M16239/600,M16225/600		N16016/600,N16015/600 L16098/600,M16216/600		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							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				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6013	DISPATCH DATE				02.05.2017
2.	Railway	ER	Type	LFCWAC	Coach No.	16028	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	43.6 T					
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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	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 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		VIBGOR	87/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		FAIVELEY				
ii.	CDTS/ BIO TOILET		RAIL TECH, MK				
iii.	SEATS/ BERTHS		RAJINDER DASS				
iv.	BODY SIDE DOOR		SUKATA				
v.	VESTIBULE SLIDING DOOR		HP				
vi.	SALOON DOOR		KALSI				
vii.	WATER TANKS		SHIVALIK,				
viii.	UIC VESTIBULE		SSIPL				
ix	FLOOR BOARD		NARBADA				
x	PVC FLOORING		RESPONSIVE				
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6013	ER	LFCWAC	16028/C	04-04-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176307				176308			
	ii.	Frame No.	SCI/FM-804				SCI/FM-809			
	iii.	Bolster No.	6792-P				6810-P			
	iv.	Axle No.	V-1514		S-2964		S-9981		S-9616	
	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	916.00	916.50
	vii.	Wheel Disc No.	00180/7274	00071/6226	00125/6179	00195/6179	00142/6188	00114/6217	00157/6177	00081/6135
	viii.	R.B. Nos.	80115	80073	76970	79695	76018	79803	75906	73457
	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-16-6-617	RSK-16-4-1086	RSK-16-6-511	RSK-16-4-1269	RSK-16-6-217	RSK-16-4-1329	RSK-16-6-965	RSK-16-4-1382	
ii.	Ht. at test load	510	467	512	467	508	466	508	466	
iii.	Align .deviation	14	36	14	38	10	34	14	36	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			FSK-17-01		FSK-17-01		FSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			32247,34244,34217,34196		34112,34165,33790,34066		KONI	
	iv.	Secondary damper			0024,0239		0610,0027		SV	
	v.	Lateral Damper			0190		0412		SV	
	vi.	Brake cylinder & Caliper			F16234/600,F16239/600 F16231/600,F16241/600		K16186/600,K16220/600 K16191/600,K16195/600		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							SARITA	
	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				

LFCWAC-6013

