



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6014	DISPATCH DATE				29/04/17
2.	Railway	NR	Type	LWSCZ	Coach No.	163604	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	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	87/89		
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+ORIENTAL			
iv.	SEAT & BERTH			SATLUJ			
v.	BODY SIDE DOORS			JVR			
vi.	VESTIBULE SLIDING DOOR			HP			
VII	WATER TANKS			RAIL FAB			
VIII	UIC VESTIBULE			ESCORT			
IX	LUGGAGE RACK						
X	FLOOR BOARD			TWPL			
XI	PVC			RESPONSIVE			
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.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6014	NR	LWSCZ	163604	17-02-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	176107				176108			
	ii.	Frame No.	FIAT-5431				FIAT-5400			
	iii.	Bolster No.	6612-P				6642-GT			
	iv.	Axle No.	N-0999		N-6163		N-0697		N-5769	
	v.	Wheel Dia.	918.00	918.00	917.00	917.00	917.00	917.50	917.00	917.00
	vi.	Wheel Disc No.	00068-6106	00161-6006	08517-6QG9	05869-6QL9	00162-6006	00028-6106	00186-6008	00158-6008
	vii.	R.B. Nos.	34023	06721	94531	94081	35584	33518	94092	38369
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	AFJ-16-9-44	GBD-16-5-292	AFJ-16-9-42	GBD-16-5-233	AFJ-16-9-43	GBD-16-5-229	AFJ-16-9-19	GBD-16-5-264	
ii.	Ht. at test load	509	467	510	468	510	468	512	467	
iii.	Align .deviation	13	6	16	9	20	10	20	11	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-12		GBD-16-12		GBD	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			37175,37033,37215,37212		37107,36809,37226,37216		KONI	
	iv.	Secondary damper			0648,0011		0594,0561		SV	
	v.	Lateral Damper			0511		0071		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							-----	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							AWF	
	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				

LWSCZ-6014



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6012	DISPATCH DATE				21/04/17
2.	Railway	NR	Type	LWSCZ	Coach No.	163601	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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		1095	1100	
	v)	CBC (Make )	ESCORT		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	88/90		
	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+ORIENTAL	
	iv.	SEAT & BERTH				AMAR COACH	
	v.	BODY SIDE DOORS				JVR	
	vi.	VESTIBULE SLIDING DOOR				HP	
	VII	WATER TANKS				RAIL FAB	
	VIII	UIC VESTIBULE				ESCORT	
	IX	FLOOR BOARD				TWPL	
	X	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				
		6012	NR	LWSCZ	163601	03-03-2017				
11.1	<b>Wheel &amp; Axle Details:</b>									
	i.	Bogie No.	176190			176191				
	ii.	Frame No.	SCI/FM-819			FIAT-5442				
	iii.	Bolster No.	6712-P			6701-P				
	iv.	Axle No.	N-1075	N-5990		F-9884 N-6835				
	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	916.50	917.00	917.50	917.00
	vii.	Wheel Disc No.	00178/6193	00025/6187	00172/6198	00081/6196	00141/6204	00076/6219	00018/6219	00113/6219
	viii.	R.B. Nos.	97892	98636	98654	87854	78156	76749	25984	73345
	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.	FSK-16-10-047	GBD-16-10-141	FSK-16-6-059	GBD-16-10-120	FSK-16-6-080	GBD-16-10-232	FSK-16-6-09	GBD-16-10-087	
ii.	Ht. at test load	511.50	467	512	466	508	466	509	468	
iii.	Align .deviation	7	11	8	12	7	6	7	6	
11.3	<b>Items traceability:</b>									
	Sno.	Item						Make		
	i.	Primary Outer Spring			GBD-16-12		GBD-16-12		GBD	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			35726,36064,36063,35512		35375,35438,36394,35656		KONI	
	iv.	Secondary damper			0134,0177		0191,0153		SV	
	v.	Lateral Damper			0264		0554		SV	
	vi.	Brake cylinder & Caliper			K16017/600,K16055/600 K16018/600,K16053/600		K16016/600,H16347/600, K16014/600,K16056/600		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							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	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.	6015	DISPATCH DATE				19/04/17
2.	Railway	NR	Type	LWSCZ	Coach No.		163603
3.	Booked to		SSE/C&W/DLI				
4.	Tare Weight of Coach		40.5 T				
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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	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	86/88	
	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+ORIENTAL	
	iv.	SEAT & BERTH				SATLUJ	
	v.	BODY SIDE DOORS				JVR	
	vi.	VESTIBULE SLIDING DOOR				HP	
	VII	WATER TANKS				AMIT ENGR.	
	VIII	UIC VESTIBULE				SSIPL	
	IX	FLOOR BOARD				TWPL	
	X	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				
		6015	NR	LWSCZ	163603	11-03-2017				
11.1	<b>Wheel &amp; Axle Details:</b>									
	i.	Bogie No.	176219			176222				
	ii.	Frame No.	SCI/FM-723			FIAT-5409				
	iii.	Bolster No.	6653-GT			6722-P				
	iv.	Axle No.	S-3496	S-9565		S-9620 K-3471				
	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	917.00	917.00
	vii.	Wheel Disc No.	00082/6188	00178/6179	00147/6212	00182/6178	00106/6216	00167/6212	00051/6217	00054/6196
	viii.	R.B. Nos.	78714	76605	76023	76015	73400	79481	81808	80960
	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.	RSK-16-6-685	GBD-16-10-070	RSK-16-6-406	GBD-16-10-065	RSK-16-6-454	GBD-16-10-092	RSK-16-6-474	GBD-16-10-114	
ii.	Ht. at test load	510	464	511	466	512	468	512	466	
iii.	Align .deviation	8	11	7	6	11	11	12	12	
11.3	<b>Items traceability:</b>									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-11		GBD-16-12		FSK,GBD	
	ii.	Primary inner Spring			G-12-6		RSK-16-3		GF,RSK	
	iii.	Primary Damper			35723,36017,35871,35839		35706,35754,35884,35702		KONI	
	iv.	Secondary damper			0159,0156		0169,0176		SV	
	v.	Lateral Damper			0467		0485		SV	
	vi.	Brake cylinder & Caliper			M16124/600,M16260/600 M16126/600,M16265/600		H16291/600,K16092/600 K16167/600,K16042/600		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							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				

