



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6021	DISPATCH DATE				09.06.2017
2.	Railway	WR	Type	LWSCZ	Coach No.	176026	
3.	Booked to	SSE/C&W/MUMBAI					
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105		
v)	Buffer/CBC (Make)	SANROK		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		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	BIO TOILET			RAIL TECH, JSL			
iv.	SEAT & BERTH			ADVANCE			
v.	BODY SIDE DOORS			JVR			
vi.	SALOON COMPTT DOORS			--			
vii.	VESTIBULE SLIDING DOOR			HP			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			SSIPL			
x	LUGGAGE RACK			RAIL TECH			
XI	FLOOR BOARD			TWPL			
XII	PVC			RESPONSIVE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		6021	WR	LWSCZ	176026	29-03-2017				
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176283			176284				
	ii.	Frame No.	SCI/FM-800			ECBT-031				
	iii.	Bolster No.	6793-P			6804-P				
	iv.	Axle No.	S-2984	N-6653	S-9408	R-2446				
	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.	00120/6203	00020/6216	00024/6225	00118/6187	00008/6139	00176/6136	00035/6136	00025/6216
	viii.	R.B. Nos.	81492	81490	63098	81494	79997	63089	81486	80009
	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-16-06-028	RSK-16-04-1260	RSK-16-06-505	RSK-16-04-1321	RSK-16-06-905	RSK-16-04-1396	RSK-16-06-325	RSK-16-04-1387	
ii.	Ht. at test load	507	465	508	467	509	466	511	468	
iii.	Align .deviation	16	33	12	31	12	25	15	29	
11.3	Items traceability:									
	Sno.	Item					Make			
	i.	Primary Outer Spring			FSK-17-01	FSK-17-01		FSK		
	ii.	Primary inner Spring			L&S-13-02	L&S-13-02		L&S		
	iii.	Primary Damper			37031,37254,37257,36994	37279,37298,37253,36972		KONI		
	iv.	Secondary damper			0225,0800	0752,0194		SV		
	v.	Lateral Damper			0477	0580		SV		
	vi.	Brake cylinder & Caliper			G16273/600,G16184/600 G16271/600,G16188/600	M16220/600,M16226/600 M16227/600,M16217/600		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						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				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6023	DISPATCH DATE				09.06.2017
2.	Railway	WR	Type	LWSCZ	Coach No.	176016	
3.	Booked to	SSE/C&W/MUMBAI					
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	SANROK	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	85/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	BIO TOILET			RAIL TECH, JSL		
	iv.	SEAT & BERTH			ADVANCE		
	v.	BODY SIDE DOORS			--		
	vi.	SALOON COMPTT DOORS			--		
	vii.	VESTIBULE SLIDING DOOR			--		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			ESCORTS		
	x	LUGGAGE RACK			RAIL TECH		
	XI	FLOOR BOARD			TWPL		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6023	WR	LWSCZ	176016	24-04-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176378			176374				
	ii.	Frame No.	ECBT-060			ECBT-063				
	iii.	Bolster No.	6889-P			6888-GT				
	iv.	Axle No.	R-2886		R-3132		R-3286		S-9588	
	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	916.00	916.00
	vii.	Wheel Disc No.	00089/6198	00161/7257	00071/6103	00077/7321	00062/7221	00090/7321	00157/6187	000150/6192
	viii.	R.B. Nos.	39671	22432	76016	35062	05021	75968	77132	73408
	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-17-2-026	GBD-16-10-054	FSK-17-2-064	GBD-16-10-03	FSK-17-2-054	GBD-16-10-103	FSK-17-2-016	GBD-16-10-072	
ii.	Ht. at test load	512	466	510	467	508	466	507	468	
iii.	Align .deviation	11	6	12	12	7	12	8	12	
11.3	Items traceability:									
	Sno.	Item					Make			
	i.	Primary Outer Spring			FSK-17-1		FSK-17-1		FSK	
	ii.	Primary inner Spring			G-12-5		G-12-5		GF	
	iii.	Primary Damper			35630,37792,37761,37790		37916,37935,37933,37854		KONI	
	iv.	Secondary damper			0650,0586		0342,0738		SV	
	v.	Lateral Damper			0050		0205		SV	
	vi.	Brake cylinder & Caliper			M16325/600,M16410/600 M16223/600,M16415/600		M16190/600,M16080/600 M16187/600,M16213/600		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							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				