



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6023	DISPATCH DATE				28.7.2016
2.	Railway	NE	Type	LWACCN	Coach No.	16101	
3.	Booked to	SSE/C&W/GKP					
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1103		
	v)	Buffer/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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.80 ± 0.15 Kg/cm ²	3.80		
			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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAVELLY			
	ii.	BIO TOILET		RAIL FAB			
	iii.	SEATS/ BERTHS		OVPL			
	iv.	BODY SIDE DOOR		SUKATA,JBM			
	v.	VESTIBULE SLIDING DOOR		HANSPAL			
	vii.	WATER TANKS		MANOJ, SHIVALIK,AMIT			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		TAYAL			
	X	PVC		PREMIER POLYFILM			
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.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6023	NE	LWACCN	16101	08-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166558				166561			
	ii.	Frame No.	FIAT-4904				FIAT-4928			
	iii.	Bolster No.	5854-PS				5902-PS			
	iv.	Axle No.	126841/470	N-0938		K-4021		N-5713		
	v.	Wheel Dia.	917.00	917.00	916.50	916.50	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06230-00106	7290-00003	13350-00110	13352-00233	13350-00068	13350-00165	13350-00083	13350-00197
	vii.	R.B. Nos.	33975	35332	35375	21971	22159	34256	29669	30640
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-16-1-1168	RSK-15-4-30	G-16-1-1098	RSK-15-4-31	G-16-1-1068	RSK-15-4-33	G-16-1-1108	RSK-15-4-32	
ii.	Ht. at test load	512	463	513	469	513	467	514	466	
iii.	Align .deviation	19	34	19	37	14	40	15	42	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-15-10		RSK-15-10		RSK			
	ii.	Primary inner Spring	FSK-15-6		FSK-15-6		FSK			
	iii.	Primary Damper	76,14,48,15		016,020,021,019		GABRAIL			
	iv.	Secondary damper	0402,0336		0410,0367		KNORR			
	v.	Lateral Damper	L-0384		L-0343		KNORR			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	F16143/600,F16106/600 F16118/600,F16095/600		F16139/600,F16105/600 E16132/600,F16091/600		FTI			
	viii.	Brake Disc					KBI			
	ix.	Ball joint Control arm					GMT			
	x.	Lateral Bump stop					GMT			
	xi.	Traction center make					SARITA			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					GMT			
	xiv.	Traction centre elastic					GMT			
	xv.	Secondary rubber pad					TECSPAK			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					SARITA			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6030	DISPATCH DATE			23.7.2016	
2.	Railway	NE	Type	LWACCN	Coach No.	16102	
3.	Booked to	SSE/C&W/GKP					
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	FAVELLY	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	3.80 ± 0.15 Kg/cm ²	3.80		
			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	89/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAVELLY			
	ii.	CDTS/ BIO TOILET		RAIL FAB			
	iii.	SEATS/ BERTHS		OVPL			
	iv.	BODY SIDE DOOR		SUKATA			
	v.	VESTIBULE SLIDING DOOR		HANSPAL			
	vii.	WATER TANKS		MANOJ, SHIVALIK,AMIT			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		NARBADA			
	X	PVC		PREMIER POLYFILM			
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.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6030	NE	LWACCN	16102	09-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166586				166611			
	ii.	Frame No.	FIAT-4922				FIAT-4995			
	iii.	Bolster No.	5927-PS				5954-VT			
	iv.	Axle No.	N-5918		N-5718		N-6743		P-9360	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	13352-00109	13352-00183	13350-00036	13353-00047	13353-00023	13351-00021	13352-00035	13350-00208
	vii.	R.B. Nos.	21824	06754	34539	22276	34282	33328	35352	34390
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-16-1-1048	GBD-16-3-7	G-16-1-1196	GBD-16-3-21	G-16-01-1049	FSK-16-4-096	G-16-01-1263	FSK-16-4-105	
ii.	Ht. at test load	513	466	515	467	511	466	513	463	
iii.	Align .deviation	16	9	17	9	15	9	17	10	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie		Make		
	i.	Primary Outer Spring	RSK-15-11			RSK-13-2		RSK		
	ii.	Primary inner Spring	RSK-14-5			FSK-15-6		RSK,FSK		
	iii.	Primary Damper	1340,1442,1393,1317			1301,1267,1358,1297		KNORR		
	iv.	Secondary damper	0315,0511			360,396		KNORR		
	v.	Lateral Damper	0250			238		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper	D16020/600,D16054/600 D16002/600,D16051/600			D16015/600,D16076/600 D16014/600,D16079/600		FTI		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						GMT,MGN		
	x.	Lateral Bump stop						GMT		
	xi.	Traction center make						SARITA		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						MGN		
	xiv.	Traction centre elastic						GMT		
	xv.	Secondary rubber pad						TECSPAK		
	xvi.	Rubber spring						GMT		
	xvii.	Anti roll bar make						EMSON		
	xviii.	Ball joint roll link						SARITA		
	xix.	Fork make						SARITA		
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

