



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6078			DISPATCH DATE	16.05.2017	
2.	Railway	SWR	Type	LWLRRM(HM)	Coach No.	17854	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	1100	1100		
	v)	CBC (Make)	ESCORTS	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	GS	87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	BIO TANK			RAIL FAB		
	iv.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			KALSI/JBM		
	viii.	WATER TANKS			SHIVALIK,		
	ix	FUEL TANK			GAURAV ASSOCIATE		
	x	UIC VESTIBULE			SSIPL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
	XII	LP SHEET			--		
	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.Vinyl Wrapping supplied and fitted by. M/S.Tehno Expert Jalandhar , Punjab , Contact No. 9317550000					
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6078		SWR		LWLRRM		17854		10-04-2017	
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake					Gen.van side 2				
	i.	Bogie No.	176328					176327				
	ii.	Frame No.	FIAT-5605					ECBT-042				
	iii.	Bolster No.	6401-P					6802-P				
	iv.	Axle No.	W-3704		S-9767		R-2845		V-1828			
	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	916.00	916.00		
	vii.	Wheel Disc No.	00126/7250	00110/7250	00038/7274	00127/7274	00159/7257	00161/7321	00126/7302	00083/7280		
	viii.	R.B. Nos.	76423	86286	86245	79820	77509	78198	78086	77507		
	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.	G-15-9-015	G-15-10-196	G-15-9-058	G-15-10-210	RSK-16-9-631	G-15-10-146	RSK-16-9-296	G-15-10-129			
ii.	Ht. at test load	509	466	509	464	515	470	515	468			
iii.	Align .deviation	8	11	7	10	12	7	8	4			
11.3	Items traceability:											
	Sno.	Item								Make		
	i.	Primary Outer Spring			L&S-15-12			L&S-15-12			L&S	
	ii.	Primary inner Spring			FSK-16-07			FSK-16-07			FSK	
	iii.	Primary Damper			35556,35830,35564,35821			35539,35560,35801,35796			KONI	
	iv.	Secondary damper			0129,0044			0025,0065			SV	
	v.	Lateral Damper			0121			0409			SV	
	vi.	Brake cylinder & Caliper			A17018/2000,A17010/2000 A17021/2000,A17015/2000			M16003/2000,A17022/2000, A17033/2000,A17021/2000			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									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									RNG	
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.	6080			DISPATCH DATE	08.05.2017	
2.	Railway	SWR	Type	LWLRRM(HM)	Coach No.	17855	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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)	ESCORTS	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	GS	86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	BIO TANK			RAIL FAB		
	iv.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			HANSPAL		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI		
	viii.	WATER TANKS			SHIVALIK, KUTEER		
	ix	FUEL TANK			GAURAV ASSOCIATE		
	x	UIC VESTIBULE			SSIPL		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
	XII	LP SHEET			--		
	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.Vinyl Wrapping supplied and fitted by. M/S.Tehno Expert Jalandhar , Punjab , Contact No. 9317550000					
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6080	SW	LWLRRM	17855/C	05-04-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176310				176309			
	ii.	Frame No.	FIAT-5599				SCI/FM-802			
	iii.	Bolster No.	6816-P				6796-P			
	iv.	Axle No.	S-9521		N-5663		W-3235		V-1786	
	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	916.50	917.00
	vii.	Wheel Disc No.	00027/6225	00026/6213	00142/6048	00063/6114	00064/13354	00179/7274	00146/6177	00066/6135
	viii.	R.B. Nos.	79936	79933	77803	79525	79704	75907	73325	80740
	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.	G-15-10-496	G-15-9-706	G-15-10-737	G-15-9-706	RSK-16-6-496	G-15-9-706	RSK-16-6-737	G-15-9-636	
ii.	Ht. at test load	513	466	514	465	514	466	514	465	
iii.	Align .deviation	7	8	5	7	6	8	5	10	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			FSK-16-11		FSK-16-11		FSK	
	iii.	Primary Damper			34071,34104,33665,34178		34230,34086,34103,34205		KONI	
	iv.	Secondary damper			1290,1421		1310,162		GEREP	
	v.	Lateral Damper			0133		NIL		SV	
	vi.	Brake cylinder & Caliper			A17019/2000,A17020/2000 A17018/2000,A16005/2000		K16045/2000,A17002/2000 M17008/2000,A17012/2000		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	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							SARITA	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							RNG	
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.	6067			DISPATCH DATE	12.05.2017	
2.	Railway	SWR	Type	LWLRRM(HM)	Coach No.	17856	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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)	ESCORTS			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		GS	86	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.			BRAKE EQUIPMENT			FAIVELEY	
iii.			BIO TANK			RAIL FAB	
iv.			SEATS/S&B			AMIR CHAND	
v.			BODY SIDE DOOR			JVR	
vi.			VESTIBULE SLIDING DOOR			HANSPAL	
vii.			CREW-GEN & GUARD ROOM DOOR			JBM/KALSI	
viii.			WATER TANKS			SHIVALIK, AMIT	
ix			FUEL TANK			GAURAV ASSOCIATE	
x			UIC VESTIBULE			SSIPL	
XI			FLOOR BOARD			NARBADA	
XII			PVC			RESPONSIVE	
XII			LP SHEET			--	
10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.Vinyl Wrapping supplied and fitted by. M/S.Tehno Expert Jalandhar , Punjab , Contact No. 9317550000						
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6067	SWR	LWLRRM	17856	15-04-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176347				176346			
	ii.	Frame No.	FIAT-5614				ECBT-023			
	iii.	Bolster No.	6835-P				6856-GT			
	iv.	Axle No.	V-1272		W-3416		W-2858		V-1468	
	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	918.00	918.00	918.00	918.00	918.00
	vii.	Wheel Disc No.	00135/613 4	00111/725 7	00188/6201	00096/7257	00033/621 6	00158/6203	00100/620 3	00039/6203
	viii.	R.B. Nos.	77726	76759	77160	79674	76433	81405	80144	78950
	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.	G-15-9-061	G-15-10-162	G-15-9-028	G-15-10-158	RSK-16-6-803	G-15-10-207	RSK-16-6-744	G-15-10-176	
ii.	Ht. at test load	509	468	511	466	512	470	514	470	
iii.	Align .deviation	6	8	6	10	2	7	4	7	
11.3	Items traceability:									
	Sno.	Item				Make				
	i.	Primary Outer Spring			L&S-16-12	L&S-16-12			L&S	
	ii.	Primary inner Spring			L&S-16-11	FSK-16-7			L&S,FSK	
	iii.	Primary Damper			35590,35752,35593,35756	35761,35597,35787,35766			KONI	
	iv.	Secondary damper			0797,0718	0703,0610			SV	
	v.	Lateral Damper			0411	0186			SV	
	vi.	Brake cylinder & Caliper			A17031/2000,A17019/2000 A17036/2000,A17011/2000	A17040/2000,M16103/2000 M16004/2000,A17018/2000			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				

