



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5050	DISPATCH DATE				07.10.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15929	
3.	Booked to	SSE/C&W/BZA					
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	1104		
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			3.80 ± 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		ADVANCE	85/87		
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					AIR FLOW	
iii.	SEATS/ BERTHS					RAJINDER DASS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI/ RAIL TECH	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					SHIVALIK , E C BLADES, KUTEER	
viii.	UIC VESTIBULE					SUNCREAST	
ix	FLOOR BOARD					NARBADA	
X	PVC					RESPONSIVE	
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			
			5050	SCR	LACCN	15929	28-09-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	156713				156714			
	ii.	Frame No.	FIAT-4307				SCI-FM-231			
	iii.	Bolster No.	5056-GT				5136-GT			
	iv.	Axle No.	127779/987	127877/987	127867/987	128760/990				
	v.	Wheel Dia.	916.50	917.00	916.00	916.50	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06149-00026	6213-00178	6212-00138	6198-00121	6213-00152	6212-00145	6252-00213	6219-00053
	vii.	R.B. Nos.	30429	02811	30532	29450	29861	01176	01362	11093
	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-15-3-138	DN-12-6-1530	G-15-3-145	DN-12-6-1547	CMFSK-14-2-15	DN-12-6-1538	CMFSK-14-2-21	DN-12-6-1382	
ii.	Ht. at test load	513	464	515	462	515	464	515	464	
iii.	Align .deviation	17	5	19	5	10	3	10	6	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S-13-02		L&S-13-02		L&S			
	ii.	Primary inner Spring	G-13-3		G-15-3		GF			
	iii.	Primary Damper	26176,25610,26219,25632		25663,25519,26165,26225		KONI			
	iv.	Secondary damper	5858,5710		5863,6102		KONI			
	v.	Lateral Damper	395		372		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	H15007/600,H15702/600 H15008/600,H15009/600		F15026/600,F15043/600 F15095/600,F15052/600		FTI			
	viii.	Brake Disc					FTI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					MGN			
	xi.	Traction center make					SARITA			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					SGA			
	xiv.	Traction centre elastic					GMT			
	xv.	Secondary rubber pad					TESPAK			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					SARITA			
	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.	5047	DISPATCH DATE				05.10.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15910	
3.	Booked to	SSE/C&W/BZA					
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)		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		3.80 ± 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		ADVANCE	86/88	
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				
iii.	SEATS/ BERTHS		ADVANCE				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		RAIL TECH				
vi.	SALOON DOOR		KALSI				
vii.	WATER TANKS		SHIVALIK , E C BLADES				
viii.	UIC VESTIBULE		SUNCREAST				
ix	FLOOR BOARD		NARBADA				
X	PVC		RESPONSIVE				
10.	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
10.1	Deviations if any:					NIL	
10.2							



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5047		SC		LACCN		15910/C		23-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156654						156655			
	ii.	Frame No.	FIAT-4237						FIAT-3881			
	iii.	Bolster No.	5034-VT						5062-GT			
	iv.	Axle No.	125922/477		128215/484		128765/990		126950/476			
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	917.00	917.00	916.50	917.00		
	vi.	Wheel Disc No.	6191-00167	6191-00181	6198-00097	6198-00100	6198-00119	6198-00110	6232-00088	6229-00047		
	vii.	R.B. Nos.	02300	21176	30408	21163	21704	01209	23341	23362		
	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	Outer	Inner	
i.	Make & nos.	CMFSK-15-1-19	DN-13-2-1881	CMFSK-15-1-10	DN-12-10-1658	CMFSK-15-1-19	DN-12-6-1344	CMFSK-15-1-7	DN-12-6-1430			
ii.	Ht. at test load	513	463	513	462	512	461	513	462			
iii.	Align .deviation	10	16	8	14	10	4	9	3			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			26817,26812,26684,26871			26645,26625,26755,26734			KONI	
	iv.	Secondary damper			5137,5166			5005,5341			KONI	
	v.	Lateral Damper			268			475			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G15157/600,G15138/600,G15153/600,G15120/600			15155/600,15158/600,15124/600,15153/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON, SARITA	
	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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1.	SHELL No.	5045	DISPATCH DATE				02.10.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15927	
3.	Booked to	SSE/C&W/BZA					
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		1104	1104	
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		3.80 ± 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		ADVANCE	86/88	
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	
iii.	SEATS/ BERTHS					AAR KAY FOAMS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	SALOON DOOR					KALSI	
vii.	WATER TANKS					SHIVALIK , E C BLADES, KUTEER	
viii.	UIC VESTIBULE					SUNCREAST	
ix	FLOOR BOARD					TAYAL	
X	PVC					RESPONSIVE	
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	
			5045		SCR		LACCN		15927/C		24-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156656						156657			
	ii.	Frame No.	FIAT-4028						FIAT-4047			
	iii.	Bolster No.	5071-GT						5073-GT			
	iv.	Axle No.	126995/476			127796/987			127010/476		125939/477	
	v.	Wheel Dia.	917.00	917.00	916.50	916.00	916.50	916.50	917.00	917.00		
	vi.	Wheel Disc No.	6232-00087	06232-00138	6191-00032	6191-00151	6219-00004	6191-00136	6229-00187	6229-00125		
	vii.	R.B. Nos.	22394	16687	16688	16676	22353	22397	29865	01233		
	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.	FSK-15-5-24	DN-12-10-1714	FSK-15-5-23	DN-12-10-1737	FSK-15-5-5	DN-13-2-1791	FSK-15-5-6	DN-13-7-1843			
ii.	Ht. at test load	514	467	514	465	513	463	513	466			
iii.	Align .deviation	7	13	9	16	10	9	11	11			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-02			L&S-13-02			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			25946,25862,25814,25945			25829,25871,25962,25965			KONI	
	iv.	Secondary damper			5993,6182			5996,5972			KONI	
	v.	Lateral Damper			419			403			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15149/600,15133/600,15143/600,15154/600			15139/600,15166/600,15144/600,15168/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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									TESPAK	
	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

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5054	DISPATCH DATE			07.10.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15928
3.	Booked to	SSE/C&W/BZA				
4.	Tare Weight of Coach	45.6 T				
5.	Carrying Capacity	Seating	72	Sleeping	72	Luggage
						NIL
	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		1100	1102	
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	3.80 ± 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	APEX	86/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			KBI		
ii.	CDTS/ BIO TOILET			AIR FLOW		
iii.	SEATS/ BERTHS			AAR KAY FOAMS		
iv.	BODY SIDE DOOR			JBM		
v.	VESTIBULE SLIDING DOOR			KALSI		
vi.	SALOON DOOR			KALSI		
vii.	WATER TANKS			SHIVALIK , E C BLADES		
viii.	UIC VESTIBULE			SUNCREAST		
ix	FLOOR BOARD			NARBADA		
X	PVC			RESPONSIVE		
10.	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB
10.1						
10.2	Deviations if any:					NIL



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5054		SCR		LACCN		15928		24-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156642						156643			
	ii.	Frame No.	FIAT-4191						FIAT-4004			
	iii.	Bolster No.	5043-GT						5052-VT			
	iv.	Axle No.	126369/474		126417/481		C-4788		127927/988			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	915.00	915.00	915.50	915.00		
	vi.	Wheel Disc No.	6229-00035	6229-00106	6239-00159	6213-00186	6232-00032	6212-00007	6198-00030	6213-00181		
	vii.	R.B. Nos.	29971	30213	29868	30229	02271	35343	01255	01244		
	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.	FSK-15-5-14	DN-12-12-1464	FSK-15-5-25	DN-12-12-149	FSK-15-5-36	DN-12-12-1434	FSK-15-5-21	DN-12-12-1436			
ii.	Ht. at test load	515	468	515	467	512	463	511	462			
iii.	Align .deviation	11	9	9	7	12	13	11	13			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-02			L&S-13-02			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			396,496,515,540			653,552,490,492			GEREP	
	iv.	Secondary damper			620,845			940,825			GEREP	
	v.	Lateral Damper			321			440			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1566/691,1658/691 1656/691,1652/691			1086/691,1242/691 1231/691,1289/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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									TESPAK	
	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				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5048	DISPATCH DATE			10.10.2015	
2.	Railway	SCR	Type	LWACCN	Coach No.	15930	
3.	Booked to	SSE/C&W/BZA					
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)	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	3.80 ± 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	APEX	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	RAIL FAB				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT. DOOR	KALSI				
	vii.	WATER TANKS	SHIVALIK , E C BLADES				
	viii.	UIC VESTIBULE	SUNCREAST				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):					
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5048		SC		LACCN		15930/C		29-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156530						156569			
	ii.	Frame No.	FIAT-4164						FIAT-4190			
	iii.	Bolster No.	4939-VT						128-ASR/GT			
	iv.	Axle No.	127946/988		128665/989		126440/481		127917/988			
	v.	Wheel Dia.	917.00	917.00	916.00	916.50	916.00	916.00	916.00	916.00	916.50	
	vi.	Wheel Disc No.	6196-00175	6232-00203	6196-00015	6232-00207	6197-00056	06232-00172	6196-00097	6232-00208		
	vii.	R.B. Nos.	16013	01456	29992	16358	01469	01186	01467	22071		
	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-15-4-117	G-13-4-4697	G-15-4-135	G-13-4-4497	G-15-4-153	G-13-4-4400	G-15-4-039	G-13-4-4401			
ii.	Ht. at test load	513	466	512	468	514	468	514	468			
iii.	Align .deviation	16	12	13	10	17	18	18	18			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			25671,26170,25598,26188			26163,26171,26092,26121			KONI	
	iv.	Secondary damper			5717,6120			6072,5523			KONI	
	v.	Lateral Damper			412			443			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1139/691,1200/691,1125/691,1189/691			1307/691,1388/691,1308/691,1384/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT,MGN	
	xiv.	Traction centre elastic									GMT,MGN	
	xv.	Secondary rubber pad									TESPAK	
	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.	5049	DISPATCH DATE				09.10.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15931	
3.	Booked to	SSE/C&W/BZA					
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		1102	1104	
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		3.80 ± 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		ADVANCE	86/88	
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					AIR FLOW	
iii.	SEATS/ BERTHS					RAJENDER DASS	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	COMPTT. DOOR					KALSI	
vii.	WATER TANKS					SHIVALIK , E C BLADES,KUTEER	
viii.	UIC VESTIBULE					SUNCREAST	
ix	FLOOR BOARD					NARBADA	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):						
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5049		SC		LACCN		15931/C		29-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156712						156715			
	ii.	Frame No.	FIAT-3854						FIAT-3982			
	iii.	Bolster No.	5070-GT						5128-GT			
	iv.	Axle No.	126738/468		128478/983		125943/477		128184/984			
	v.	Wheel Dia.	915.50	915.00	915.00	915.50	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6191-00063	06149-00118	6219-00190	6197-00168	6196-00017	6219-00195	6191-00057	6196-00182	6191-00057	6196-00182
	vii.	R.B. Nos.	02720	34178	02812	30524	29853	16849	29876	16078	29876	16078
	viii.	R.B. Make	SKF		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	Outer	Inner
i.	Make & nos.	G-15-4-082	DN-12-6-1334	G15-3-140	DN-12-6-1563	CMFSK-14-02-27	DN-12-9-1650	CMFSK-14-02-27	DN-12-9-1650	CMFSK-14-02-27	DN-12-9-1650	CMFSK-14-02-27
ii.	Ht. at test load	512	465	514	463	513	469	513	469	513	467	
iii.	Align .deviation	18	5	17	2	8	16	7	14	7	14	
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			26206,25495,26224,25692			25527,26154,25516,25658			KONI	
	iv.	Secondary damper			5992,5399			5901,5742			KONI	
	v.	Lateral Damper			609			415			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15024/600,15045/600,15040/600,15050/600			H15167/600,H15164/600,H15168/600,H15165/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT,MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT,SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON, 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.	5039	DISPATCH DATE				30.09.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15908	
3.	Booked to	SSE/C&W/BZA					
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	1104	1104		
	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	3.80 ± 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	ADVANCE	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	CDTS/ BIO TOILET	ORIENTAL				
	iii.	SEATS/ BERTHS	ADVANCE				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	NA				
	vii.	WATER TANKS	KUTEER, AMIT, E C BLADES				
	viii.	UIC VESTIBULE	SUNCREAST				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
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	
			5039		SC		LACCN		15908/C		22-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156529						156528			
	ii.	Frame No.	FIAT-4162						FIAT-4127			
	iii.	Bolster No.	4893-VT						4925-VT			
	iv.	Axle No.	125560/377		128251/991		127979/988		128373/991			
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6196-00146	6232-00122	6198-00174	6232-00094	6213-00080	6213-00053	6232-00051	6213-00158		
	vii.	R.B. Nos.	21114	02266	01190	01343	30174	30202	01932	01115		
	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-15-4-028	G-13-4-4422	G-15-4-110	G-13-4-4491	G-15-4-025	G-13-4-4599	G-15-4-029	G-13-4-4598			
ii.	Ht. at test load	513	466	514	466	512	465	513	467			
iii.	Align .deviation	16	15	16	19	20	15	17	14			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			GBD-14-11			GBD-14-11			GBD	
	iii.	Primary Damper			569,434,395,756			294,741,702,570			GEREP	
	iv.	Secondary damper			1111,1096			1071,1066			GEREP	
	v.	Lateral Damper			404			384			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1300/691,1238/691, 1239/691,1298/691			1252/691,1324/691, 1253/691,1328/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT,MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									MGN,GMT	
	xv.	Secondary rubber pad									TESPAK	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5037	DISPATCH DATE				01.10.2015
2.	Railway	SCR	Type	LWACCN	Coach No.	15909	
3.	Booked to	SSE/C&W/BZA					
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)	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		3.80 ± 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	GS	88/89		
	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	
	iii.	SEATS/ BERTHS				ADVANCE	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				RAIL TECH	
	vi.	SALOON DOOR				KALSI	
	vii.	WATER TANKS				KUTEER, E C BLADES	
	viii.	UIC VESTIBULE				SUNCREAST	
	ix	FLOOR BOARD				TAYAL	
	X	PVC				RESPONSIVE	
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	
			5037		SCR		LACCN		15909/C		23-09-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156653						156652			
	ii.	Frame No.	FIAT-4253						FIAT-4241			
	iii.	Bolster No.	5069-GT						5013-VT			
	iv.	Axle No.	128549/989		127999/988		128859/990		128082/984			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	916.50	916.50	917.00		
	vi.	Wheel Disc No.	6149-00087	06149-00236	06232-00030	6197-00137	6212-00086	6212-00019	6227-00154	6196-00029		
	vii.	R.B. Nos.	22244	22118	01196	02411	01879	01207	01182	30068		
	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.	CMFSK-15-5-22	G-12-4-611	CMFSK-15-5-19	G-12-4-2832	CMFSK-15-5-24	G-12-4-581	CMFSK-15-5-11	G-12-4-2887			
ii.	Ht. at test load	513.50	466	514.50	467	514	466	515	466			
iii.	Align .deviation	9	22	10	23	8	16	9	16			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-13-03			L&S-13-03			L&S	
	ii.	Primary inner Spring			G-15-3			G-15-3			GF	
	iii.	Primary Damper			26829,26621,26321,26811			26322,26848,26305,26722			KONI	
	iv.	Secondary damper			5008,5312			5177,5482			KONI	
	v.	Lateral Damper			321			592			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G15141/600,G15151/600, G15154/600,G15099/600			G15146/600,G15120/600, G15142/600,G15121/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	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									TESPAK	
	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				

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