



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5035	DISPATCH DATE				20.01.2016
2.	Railway	WR	Type	LWSCN1	Coach No.	16201	
3.	Booked to	SSE/C&W/BCT/M					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	88/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	lii	BODY SIDE DOORS		SUKATA			
	lv	WATER TANKS		KUTEER, MANOJ & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		ESCORT			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	IX	CDTS/BIO TOILET		RAIL TECH			
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			
		5035	WR	LSCN	16201/C	30-12-2015			
11.1	Wheel & Axle Details:	PP Side				NPP Side			
	i. Bogie No.	156955				156995			
	ii. Frame No.	FIAT-4225				FIAT-4441			
	iii. Bolster No.	5036-P				5375-VT			
	iv. Axle No.	126620/480		126496/481		126279/474		125664/479	
	v. Wheel Dia.	916.50	916.00	916.00	916.00	916.00	916.00	915.50	916.00
	vi. Wheel Disc No.	06227-00080	06227-00084	6227-00068	7290-00061	6221-00173	07297-00118	6227-00106	6226-00112
	vii. R.B. Nos.	06444	03317	06060	03182	03842	03580	03300	03873
	viii. R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<u>Secondary suspension load deflection Values:</u>								
	Description	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	Make & nos.	DN-14-11-1015	DN-14-12-032	DN-14-11-1125	DN-14-12-132	DN-14-11-1141	DN-14-9-757	DN-14-11-43	DN-14-5-601
ii.	Ht. at test load	515	470	515	471	511	471	511	471
iii.	Align .deviation	15	11	13	9	12	11	12	16
11.3	<u>Items traceability:</u>								
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make		
	i.	Primary Outer Spring	G-14-11		G-14-11		GF		
	ii.	Primary inner Spring	G-14-03		G-14-03		GF		
	iii.	Primary Damper	555,1075,1124,1106		1129,1084,107,1091		GEREP		
	iv.	Secondary damper	79,23		110,81		GEREP		
	v.	Lateral Damper	439		450		GEREP		
	vi.	Yaw Damper					NIL		
	vii.	Brake cylinder & Caliper	L15005/600,L15025/600 L15007/600,L15023/600		M15010/600,M15015/600 M15013/600,M15011/600		FTI		
	viii.	Brake Disc					KBI		
	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					MGN		
	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.	5062	DISPATCH DATE				21.01.2016
2.	Railway	WR	Type	LWSCN1	Coach No.	16202	
3.	Booked to		SSE/C&W/BCT/M				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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)	FAIVELEY	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	88/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	I	BRAKE EQUIPMENT			FAIVELEY		
	ii	SEAT & BERTH			SAVITRI		
	iii	BODY SIDE DOORS			SUKATA		
	iv	WATER TANKS			KUTEER, MANOJ & E C BLADES		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			ESCORTS		
	viii	VESTIBULE SLIDING DOOR			KALSI		
	IX	CDTS/BIO TOILET			RAIL TECH		
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			
			5062	WR	LSCN	16202/C	31-12-2015			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	157018				157019			
	ii.	Frame No.	FIAT-4001				FIAT-4540			
	iii.	Bolster No.	5373-VT				5383-VT			
	iv.	Axle No.	128507/983	126707/468	128759/990	128081/984				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6227-00047	6221-00103	6221-00084	06221-00173	06230/00161	6221-00201	06230-00160	06230-00150
	vii.	R.B. Nos.	05667	02317	04283	02762	04774	07363	07223	07479
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	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-14-12-067	G-14-12-156	G-14-12-124	G-14-12-191	G-14-12-037	G-14-12-029	G-14-12-038	G-14-12-151	
ii.	Ht. at test load	513	471	515	471	515	470	516	469	
iii.	Align .deviation	4	7	5	8	3	10	4	12	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	G-14-03		G-14-03		GF			
	ii.	Primary inner Spring	G-14-03		G-14-03		GF			
	iii.	Primary Damper	1120,1097,1070,1071		429,1082,1106,783		GEREP			
	iv.	Secondary damper	131,149		141,28		GEREP			
	v.	Lateral Damper	118		116		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	M15081/600,M15103/600 M15086/600,M15105/600		L15011/600,L15042/600 L15017/600,L15031/600		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					MGN			
	xiv.	Traction centre elastic					SGA			
	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.	5073	DISPATCH DATE				30.01.2016
2.	Railway	WR	Type	LWSCN1	Coach No.	16208	
3.	Booked to		SSE/C&W/ BCT/M				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	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	87/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	lii	BODY SIDE DOORS	JBM				
	lv	WATER TANKS	MANOJ & SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KALSI				
	viii	VESTIBULE SLIDING DOOR	JBM				
	IX	BIO TOILET/ CDTs	RAIL TECH				
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	
			5073		WR		LSCN		16208/C		15-01-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166048					166052				
	ii.	Frame No.	FIAT-4546					FIAT-4536				
	iii.	Bolster No.	5432-VT					5439-VT				
	iv.	Axle No.	128838/990		126035/475		128636/989		128955/986			
	v.	Wheel Dia.	916.00	916.00	915.50	916.00	915.50	916.00	915.00	915.00		
	vi.	Wheel Disc No.	7273-00196	06223-00039	06234-00147	07297-00193	6226-00176	06223-00041	6223-00008	06223-00040		
	vii.	R.B. Nos.	02192	03709	03526	02917	29714	29604	35270	02210		
	viii.	R.B. Make	TIMKEN		TIMKEN		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.	DN-14-11-1047	DN-14-5-600	DN-14-11-1087	DN-14-11-743	DN-14-10-1012	DN-14-05-613	DN-14-10-1004	DN-14-11-753			
ii.	Ht. at test load	513	472	512	469	513	469	515	469			
iii.	Align .deviation	9	12	10	16	13	12	13	6			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-03			G-14-03			GF	
	iii.	Primary Damper			2241,258,158,60			331,2248,311,286			GEREP	
	iv.	Secondary damper			40,144			146,139			GEREP	
	v.	Lateral Damper			52			524			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15010/600,K15188/600 L15016/600,K15187/600			L15132/600,L15157/600 L15134/600,L15153/600			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,SGA	
	xiv.	Traction centre elastic									GMT,SGA	
	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.	5078	DISPATCH DATE				28.01.2016
2.	Railway	WR	Type	LWSCN1	Coach No.	16207	
3.	Booked to	SSE/C&W/OKHA					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	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	1098	1100		
	v)	Buffer/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	VIBGYOR	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		JBM			
	iv	WATER TANKS		KUTEER, E C BLADES & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		ESCORTS			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	IX	CDTS/BIO TOILET		RAIL TECH			
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	
			5078		WR		LSCN		16207/C		12-01-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166039						166040			
	ii.	Frame No.	FIAT-4598						FIAT-4557			
	iii.	Bolster No.	5410-VT						5303-GT			
	iv.	Axle No.	126536/481		126075/475		128319/991		126508/481			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7297-00201	6227-00163	7222-00041	6227-00121	7222-00043	7222-00044	6210-00124	7222-00038		
	vii.	R.B. Nos.	04123	03195	02945	03049	06348	01193	03464	06111		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	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.	DN-14-2-577	DN-14-2-385	DN-14-2-583	DN-14-2-384	DN-14-2-547	DN-14-2-328	DN-14-2-463	DN-14-2-390			
ii.	Ht. at test load	511	468	510	470	513	468	514	468			
iii.	Align .deviation	13	8	12	7	9	11	6	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			2215,2028,2123,2227			2229,2169,2082,2068			GEREP	
	iv.	Secondary damper			35,38			8,151			GEREP	
	v.	Lateral Damper			562			596			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15025/600,L15028/600 L15019/6000,L15057/600			L15015/600,L15006/600 L15003/600,K15199/600			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,MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									WINLANE	
	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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1.	SHELL No.	5080	DISPATCH DATE				28.01.2016
2.	Railway	WR	Type	LWSCN1	Coach No.	16206	
3.	Booked to		SSE/C&W/BCT/M				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	1095	1105		
	v)	Buffer/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	VIBGYOR	88/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		FAIVELEY			
	ii	SEAT & BERTH		SAVITRI			
	iii	BODY SIDE DOORS		SUKATA			
	iv	WATER TANKS		KUTEER, E C BLADES & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		SUNCREAST			
	viii	VESTIBULE SLIDING DOOR		HP			
	IX	CDTS/BIO TOILET		RAIL TECH			
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	
			5080		WR		LSCN		16206/C		01-01-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	157024						157025			
	ii.	Frame No.	ECBT-1005						BEC-020			
	iii.	Bolster No.	5363-P						5307-VT			
	iv.	Axle No.	129192/992		127840/987		125789/473		114672/376			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06234-00113	06234-00121	7150-00141	6221-00189	6223-00042	6223-00152	6223-00158	6234-00070		
	vii.	R.B. Nos.	05154	04755	05640	07102	07650	07499	05551	04594		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	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.	DN-14-11-368	DN-14-3-420	DN-14-11-1107	DN-14-3-505	G-14-12-79	G-14-12-3	G-14-12-109	G-14-12-25			
ii.	Ht. at test load	514	471	514	471	514	472	513	472			
iii.	Align .deviation	16	13	18	15	4	16	3	11			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-03			G-14-03			GF	
	iii.	Primary Damper			516,478,596,862			466,684,912,584			GEREP	
	iv.	Secondary damper			66,4			98,25			GEREP	
	v.	Lateral Damper			176			126			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			L15104/600,L15119/600 L15121/600,L15110/600			M15020/600,M15005/600 M15041/600,M15002/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON	
	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									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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5081	DISPATCH DATE				28.01.2016
2.	Railway	WR	Type	LWSCN1	Coach No.	16205	
3.	Booked to		SSE/C&W/BCT/M				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	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	1100	1105		
	v)	Buffer/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	VIBGYOR	88/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	I	BRAKE EQUIPMENT				FAIVELEY	
	ii	SEAT & BERTH				SAVITRI	
	lii	BODY SIDE DOORS				SUKATA	
	lv	WATER TANKS				KUTEER, MANOJ & SHIVALIK	
	v	FLOOR BOARD				TAYAL	
	vi	PVC FLOORING				RESPONSIVE	
	vii	UIC VESTIBULE				ESCORTS	
	viii	VESTIBULE SLIDING DOOR				KALSI	
	IX	CDTS/BIO TOILET				RAIL TECH	
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	
			5081		WR		LSCN		16205		06-01-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166006						166007			
	ii.	Frame No.	FIAT-4482						FIAT-4486			
	iii.	Bolster No.	5372-VT						5367-VT			
	iv.	Axle No.	128621/989		126371/475		114546/370		129244/982			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	06230-00183	06234-00087	06230-00147	175-11611	06226-00168	6210-00086	06227-00141	06227-00081		
	vii.	R.B. Nos.	07377	04916	04501	07173	01772	01856	04182	01416		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	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.	DN-14-11-1048	DN-14-11-785	DN-14-11-1169	DN-14-11-781	DN-14-11-1063	DN-14-11-800	DN-14-11-1128	DN-14-11-801			
ii.	Ht. at test load	516	471	516	469	512	471	513	471			
iii.	Align .deviation	9	8	11	11	9	4	10	6			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-14-12			G-14-12			GF	
	iii.	Primary Damper			140,282,411,164			404,645,55,269			GEREP	
	iv.	Secondary damper			145,47			15,134			GEREP	
	v.	Lateral Damper			486			199			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			M15014/600,M15024/600 L15058/600,L15056/600			M15015/600,M15025/600 L15052/600,L15051/600			FTI	
	viii.	Brake Disc									KBI,FTI	
	ix.	Ball joint Control arm									GMT,MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA,EM SON	
	xii.	Traction lever make									SARITA,EM SON	
	xiii.	Ball joint traction lever									GMT,SGA	
	xiv.	Traction centre elastic									SGA,GMT	
	xv.	Secondary rubber pad									WINLANE	
	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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