



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5048	DISPATCH DATE			29.12.2015	
2.	Railway	ER	Type	LWLRRM	Coach No.	15855	
3.	Booked to		SSE/C&W/LILUAH				
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	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	ADVANCE	87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	CDTS			RAIL FAB		
	iv.	SEATS/S&B			GANDHI SAFE		
	v.	BODY SIDE DOOR			JBM		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			CONCEPT/JBM		
	viii.	WATER TANKS			KUTEER , MANOJ,		
	ix	FUEL TANK			GAURAV		
	x	UIC VESTIBULE			ESCORT		
	Xi	FLOOR BOARD			TAYAL		
	xii	PVC FLOORING			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			
			5048	ER	LWLRRM	15855/C	31-12-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156934				156935			
	ii.	Frame No.	FIAT-4451				BEC-053			
	iii.	Bolster No.	5369-P				5254-P			
	iv.	Axle No.	127990/988		129017/986		128413/983		128445/983	
	v.	Wheel Dia.	915.50	915.50	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6225-00159	6211-00035	6228-00097	6228-00001	6226-00213	6234-00116	6226-00217	6227-00180
	vii.	R.B. Nos.	01730	02847	01628	01420	03696	04923	03600	01203
	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-12-11-331	G-15-3-038	DN-12-11-335	G-15-3-077	FSK-15-9-18	DN-12-11-277	FSK-15-9-14	DN-12-11-206	
ii.	Ht. at test load	507	468	509	467	510	461	510	467	
iii.	Align .deviation	5	13	7	16	8	14	10	10	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	FSK-15-9			FSK-15-9			FSK	
	ii.	Primary inner Spring	FSK-15-6			FSK-15-6			FSK	
	iii.	Primary Damper	1033,1374,4273,1471			1484,1224,1256,1203			GEREP	
	iv.	Secondary damper	1369,1382			1394,1561			GEREP	
	v.	Lateral Damper	54			34			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	H15002/2000,K15005/2000 K15055/2000,K15008/2000			H15001/2000,L15008/2000 B15008/2000,L15006/2000			FTI	
	viii.	Brake Disc							FTI,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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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5037	DISPATCH DATE			18.01.2016	
2.	Railway	ER	Type	LWLRRM	Coach No.	15852	
3.	Booked to	SSE/C&W/LILUAH					
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)	Buffer/CBC Height		Specified : 1105 +0 /-15 mm		1105	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		ADVANCE	87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				AIR FLOW		
iv.	SEATS/S&B				GANDHI		
v.	BODY SIDE DOOR				JBM		
vi.	VESTIBULE SLIDING DOOR				KALSI		
vii.	CREW-GEN & GUARD ROOM DOOR				CP/JBM		
viii.	WATER TANKS				KUTEER , MANOJ,		
ix	FUEL TANK				GAURAV		
x	UIC VESTIBULE				ESCORT		
Xi	FLOOR BOARD				NARBADA		
xii	PVC FLOORING				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			
			5037	ER	LWLRRM	15852/C	23-12-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	156891				156890			
	ii.	Frame No.	FIAT-4385				FIAT-4448			
	iii.	Bolster No.	5260-P				5271-P			
	iv.	Axle No.	129236/982	126200/471	126456/481	129235/982				
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	915.00	915.00	916.00	916.00
	vi.	Wheel Disc No.	7172-00104	6228-00176	7150-00078	6228-00147	7150-00103	7150-00026	6228-00086	6228-00202
	vii.	R.B. Nos.	01115	01589	01126	02365	01815	01820	01793	01301
	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.	GBD-15-5-3	GBD-15-5-13	GBD-15-5-2	GBD-15-5-25	GBD-15-5-17	G-12-9-249	GBD-15-5-20	G-12-9-261	
ii.	Ht. at test load	510	464.50	512	464	512	469	510	469	
iii.	Align .deviation	5	28	5	28	8	9	10	17	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	FSK-15-9			FSK-15-9			FSK	
	ii.	Primary inner Spring	FSK-15-6			FSK-15-6			FSK	
	iii.	Primary Damper	1483,1220,1517,1494			1510,1488,1469,1219			GEREP	
	iv.	Secondary damper	1592,1373			1371,1398			GEREP	
	v.	Lateral Damper	484			170			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	L15002/2000,L15006/2000 L15003/2000,L15001/2000			141724/2000,141734/2000 141721/2000,C15004/2000			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							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							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.	5049	DISPATCH DATE			27.01.2016	
2.	Railway	ER	Type	LWLRRM	Coach No.	15853	
3.	Booked to		SSE/C&W/LILUAH				
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1100	1102		
	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	ADVANCE	87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAIVELEY			
	iii.	CDTS		RAIL FAB			
	iv.	SEATS/S&B		GANDHI			
	v.	BODY SIDE DOOR		JBM			
	vi.	VESTIBULE SLIDING DOOR		KALSI			
	vii.	CREW-GEN & GUARD ROOM DOOR		CONCEPT/JBM			
	viii.	WATER TANKS		KUTEER , MANOJ,			
	ix	FUEL TANK		GAURAV			
	x	UIC VESTIBULE		ESCORT			
	Xi	FLOOR BOARD		NARBADA			
	xii	PVC FLOORING		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			
			5049	ER	LWLRRM	15853/C	13-01-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166043				166044			
	ii.	Frame No.	FIAT-4590				FIAT-4541			
	iii.	Bolster No.	5443-VT				5428-VT			
	iv.	Axle No.	127859/982	129077/992	126446/481	126731/468				
	v.	Wheel Dia.	916.00	916.00	916.50	916.00	916.00	916.00	915.50	916.00
	vi.	Wheel Disc No.	7282-00095	7282-00164	6210-00119	7273-00191	7222-00036	07279-00195	7222-00039	6210-00167
	vii.	R.B. Nos.	01718	03589	02901	03472	06219	04176	03354	02977
	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.	CMFSK-13-01-44	CMAFJ-15-12-9	CMFSK-13-01-9	CMAFJ-15-12-10	CMAFJ-15-12-14	CMAFJ-15-12-26	CMAFJ-15-12-25	CMAFJ-15-12-23	
ii.	Ht. at test load	508.50	468	508	468	514	471	515	471	
iii.	Align .deviation	8	5	7	5	7	15	10	17	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	L&S -13-2		L&S -13-2		L&S			
	ii.	Primary inner Spring	FSK-15-9		FSK-15-9		FSK			
	iii.	Primary Damper	2101,2246,2127,2116		2219,2043,2117,2221		GEREP			
	iv.	Secondary damper	4864,4319		4658,4259		KONI			
	v.	Lateral Damper	520		519		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	M15004/2000,M15001/2000 M15007/2000,M15003/2000		M15016/2000,M15004/2000 M15014/2000,M15001/2000		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					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.	5056	DISPATCH DATE			04.02.2016	
2.	Railway	ER	Type	LWLRRM	Coach No.	15857	
3.	Booked to		SSE/C&W/LILUAH				
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1104	1102	
	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	ADVANCE	86	
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			RAIL FAB		
	iv.	SEATS/S&B			GANDHI		
	v.	BODY SIDE DOOR			JBM		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM		
	viii.	WATER TANKS			SHIVALIK, AMIT		
	ix	FUEL TANK			GAURAV		
	x	UIC VESTIBULE			ESCORT		
	Xi	FLOOR BOARD			TAYAL		
	xii	PVC FLOORING			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	
			5056		ER		LWLRRM		15857/C		02-01-2016	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	157027					157023				
	ii.	Frame No.	FIAT-4143					FIAT-4512				
	iii.	Bolster No.	5382-VT					5385-VT				
	iv.	Axle No.	127774/987		126779/468		129216/992		125729/478			
	v.	Wheel Dia.	915.00	915.00	915.00	915.00	916.00	916.00	916.50	916.50		
	vi.	Wheel Disc No.	7273-00039	06228-00028	6227-00186	7273-00057	7273-00133	07301-00117	06227-00210	7282-00178		
	vii.	R.B. Nos.	04986	01527	01552	01514	01197	01830	01172	01288		
	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.	CMFSK-15-11-75	CMFAJ-15-12-25	CMFSK-15-11-72	CMFAJ-15-12-26	CMFSK-15-9-36	CMFSK-15-5-15	CMFSK-15-19-5	CMFSK-15-5-34			
ii.	Ht. at test load	510.50	468	510.50	468	510	471	512	471			
iii.	Align .deviation	10	7	10	2	8	21	8	28			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-13-2		L&S-13-2		L&S			
	ii.	Primary inner Spring			FSK-15-5		FSK-15-5		FSK			
	iii.	Primary Damper			155,229,208,298		114,271,61,358		GEREP			
	iv.	Secondary damper			418,497		508,486		GEREP			
	v.	Lateral Damper			274		147		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	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							MGN			
	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							

LPC-5056



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5063	DISPATCH DATE			04.02.2016	
2.	Railway	ER	Type	LWLRRM	Coach No.	15854	
3.	Booked to	SSE/C&W/LILUAH					
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)	Buffer/CBC Height		Specified : 1105 +0 /-15 mm		1105	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		ADVANCE	87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
iii.	CDTS				RAIL FAB		
iv.	SEATS/S&B				GANDHI		
v.	BODY SIDE DOOR				JBM		
vi.	VESTIBULE SLIDING DOOR				KALSI		
vii.	CREW-GEN & GUARD ROOM DOOR				CP/JBM		
viii.	WATER TANKS				KUTEER, AMIT		
ix	FUEL TANK				GAURAV		
x	UIC VESTIBULE				SUNCREAST		
Xi	FLOOR BOARD				NARBADA		
xii	PVC FLOORING				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	
			5063		ER		LWLRRM		15854/C		23-12-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	156980					156978				
	ii.	Frame No.	FIAT-4344					BEC-046				
	iii.	Bolster No.	5309-VT					5356-P				
	iv.	Axle No.	125864/477		130159/469		127982/988		127042/476			
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	916.50	916.50	916.00	916.00		
	vi.	Wheel Disc No.	7172-00075	7172-00192	6227-00145	6222-00066	7282-00086	6227-00114	6227-00112	7282-00143		
	vii.	R.B. Nos.	01833	02870	02010	02280	03089	01235	01649	01412		
	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.	CMFSK-15-11-65	G-13-5-99	CMFSK-15-11-2	G-13-5-083	CMFSK-15-9-20	GBD-15-5-21	CMFSK-15-9-16	GBD-15-5-19			
ii.	Ht. at test load	512.50	466	512	466	512	471	510	470			
iii.	Align .deviation	9	13	6	11	8	22	11	25			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-15-6			FSK-15-6			FSK	
	ii.	Primary inner Spring			FSK-15-6			FSK-15-6			FSK	
	iii.	Primary Damper			1535,1503,1455,1504			1215,1641,1481,1386			GEREP	
	iv.	Secondary damper			1393,1519			1355,1522			GEREP	
	v.	Lateral Damper			94			90			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			H15015/2000,K15006/2000 H15011/2000,K15003/2000			H15014/2000,K15003/2000 H15069/2000,K15008/2000			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									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									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.	5055	DISPATCH DATE			02.02.2016
2.	Railway	ER	Type	LWLRRM	Coach No.	15856
3.	Booked to		SSE/C&W/LILUAH			
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1102	1104	
	v)	Buffer/CBC (Make)	ESCORT	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	ADVANCE	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			KBI	
	iii.	CDTS			RAIL FAB	
	iv.	SEATS/S&B			GANDHI	
	v.	BODY SIDE DOOR			JBM,	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM	
	viii.	WATER TANKS			SHIVALIK, AMIT	
	ix	FUEL TANK			GAURAV	
	x	UIC VESTIBULE			ESCORT	
	Xi	FLOOR BOARD			NARBADA	
	xii	PVC FLOORING			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			
			5055	ER	LWLRRM	15856/C	01-01-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166001				166002			
	ii.	Frame No.	FIAT-4396				FIAT-4461			
	iii.	Bolster No.	5411-VT				5306-VT			
	iv.	Axle No.	116180/377	128969/969	125316/474	128141/984				
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	917.00	916.50
	vi.	Wheel Disc No.	06221-00213	7282-000120	6221-00222	621-00219	06234-00021	6221-00206	06234-00185	06230-00146
	vii.	R.B. Nos.	01433	04863	01257	01289	07378	02704	05290	05516
	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.	CMFSK-15-11-73	GBD-15-3-22	CMFSK-15-11-27	GBD-15-3-16	CMFSK-15-9-22	DN-12-11-274	CMFSK-15-9-NIL	DN-12-11-302	
ii.	Ht. at test load	510.5	466	512	469	511.5	464	511	471	
iii.	Align .deviation	7	27	8	31	8	10	9	13	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	GBD-15-6		GBD-15-6		GBD			
	ii.	Primary inner Spring	FSK-15-6		FSK-15-6		FSK			
	iii.	Primary Damper	498,685,876,890		4228,510,573,0470		GEREP			
	iv.	Secondary damper	677,402		408,453		GEREP			
	v.	Lateral Damper	L-114		L-63		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	K0408/261,J5328/260 K0407/261,J5327/260		K0413/261,K0370/261 K0414/261,K0269/261		KBI			
	viii.	Brake Disc					FTI,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					SGA			
	xiv.	Traction centre elastic					MGN			
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5060	DISPATCH DATE			11.02.2016	
2.	Railway	ER	Type	LWLRRM	Coach No.	15859	
3.	Booked to		SSE/C&W/LILUAH				
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	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	90		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAIVELEY			
	iii.	CDTS		RAIL FAB			
	iv.	SEATS/S&B		GANDHI			
	v.	BODY SIDE DOOR		JBM, SUKATA			
	vi.	VESTIBULE SLIDING DOOR		KALSI			
	vii.	CREW-GEN & GUARD ROOM DOOR		JBM/JBM			
	viii.	WATER TANKS		KUTEER, AMIT			
	ix	FUEL TANK		GAURAV			
	x	UIC VESTIBULE		SUNCREAST			
	Xi	FLOOR BOARD		NARBADA			
	xii	PVC FLOORING		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			
			5060	ER	LWLRRM	15859/C	19-01-2016			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
	i.	Bogie No.	166064				166065			
	ii.	Frame No.	FIAT-4544				FIAT-4611			
	iii.	Bolster No.	5465-P				5462-P			
	iv.	Axle No.	125428/477	128002/988	130064/986	127986/988				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7222-00072	07297-00113	7222-00082	7222-00069	7282-00142	6227-00194	7222-00076	6234-00160
	vii.	R.B. Nos.	33725	34188	05778	33747	38827	38797	03676	05814
	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-15-11-42	G-15-9-025	CMFSK-15-11-24	G-15-9-004	G-15-9-204	CMAFJ-15-12-17	G-15-9-257	CMAFJ-15-12-16	
ii.	Ht. at test load	509	467	508	466	512	470	512	470	
iii.	Align .deviation	7	10	10	11	15	12	15	16	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
i.		Primary Outer Spring	L&S -13-2		L&S -13-2		L&S			
ii.		Primary inner Spring	FSK-15-9		FSK-15-9		FSK			
iii.		Primary Damper	1613,1640,1615,1275		1676,1410,1784,1417		GEREP			
iv.		Secondary damper	4143,4645		4894,4521		KONI			
v.		Lateral Damper	620		378		GEREP			
vi.		Yaw Damper					NIL			
vii.		Brake cylinder & Caliper	N15005/2000,N15009/2000 N15028/2000,N15001/2000		N15007/2000,N15008/2000 N15007/2000,N15020/2000		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					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.	5058	DISPATCH DATE			08.02.2016
2.	Railway	ER	Type	LWLRRM	Coach No.	15858
3.	Booked to		SSE/C&W/LILUAH			
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)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1104	1104	
	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	ADVANCE	85	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:		Make			
	i.	BRAKE EQUIPMENT			KBI	
	iii.	CDTS			RAIL FAB	
	iv.	SEATS/S&B			AAR KAY FOAMS	
	v.	BODY SIDE DOOR			JBM, SUKATA	
	vi.	VESTIBULE SLIDING DOOR			KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/JBM	
	viii.	WATER TANKS			E C BLADES, AMIT	
	ix	FUEL TANK			GAURAV	
	x	UIC VESTIBULE			SUNCREAST	
	Xi	FLOOR BOARD			NARBADA	
	xii	PVC FLOORING			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	
			5058		ER		LWLRRM		15858/C		04-01-2016	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	166005					166004				
	ii.	Frame No.	FIAT-4581					FIAT-4553				
	iii.	Bolster No.	5392-VT					5407-P				
	iv.	Axle No.	128069/984		129152/992		128335/991		129152/992			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	06226-00098	06226-00184	6221-00119	6221-00121	6227-00120	6227-00140	6227-00183	6227-00156		
	vii.	R.B. Nos.	07630	03279	07538	07690	02720	07480	07308	03804		
	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.	CMFSK-15-11-30	ABOK-15-12-35	CMFSK-15-11-28	ABOK-15-12-33	CMFSK-15-9-17	GBD-15-6-28	CMFSK-15-9-26	GBD-15-6-20			
ii.	Ht. at test load	508	468	507.50	468	515	468	515	466			
iii.	Align .deviation	9	3	11	10	10	5	8	2			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-12-5		L&S-12-5		L&S			
	ii.	Primary inner Spring			FSK-15-5		FSK-15-5		FSK			
	iii.	Primary Damper			288,151,144,146		148,134,130,244		GEREP			
	iv.	Secondary damper			471,406		478,467		GEREP			
	v.	Lateral Damper			241		323		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			J5849/261,K0234/260 J5852/261,K0231/260		J5851/261,J5816/261 J5850/261,J5815/261		KBI			
	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,GMT			
	xiv.	Traction centre elastic							GMT,SGA			
	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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