



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6009	DISPATCH DATE				09.07.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163224	
3.	Booked to		SSE/C&W/NDLS				
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 )		FAVELLY		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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		GS	71/81	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT				FAIVELEY		
ii	SEAT & BERTH				OVPL		
iii	BODY SIDE DOORS				JBM		
iv	WATER TANKS				AMIT & RUBICON		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				KRP		
viii	VESTIBULE SLIDING DOOR				HP		
IX	BIOTOILETS				RAIL FAB		
X	LP SHEET				NK		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6009	NR	LWSCN	163224	19-05-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166425				166426			
	ii.	Frame No.	BGB-33				FIAT-3546			
	iii.	Bolster No.	5652-VT				5800-VT			
	iv.	Axle No.	K-3502		N-0849		K-3094		129199/992	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	916.50	916.50
	vi.	Wheel Disc No.	7298-00177	7272-00042	06204-00068	07298-00052	7280-00163	7280-00081	6228-00200	6211-00026
	vii.	R.B. Nos.	05428	04089	05199	04747	03380	03466	04248	05077
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-5-782	RSK-15-09-153	DN-14-3-901	RSK-15-09-197	DN-14-5-810	RSK-15-09-213	DN-14-5-812	RSK-15-09-248	
ii.	Ht. at test load	514	471	512	472	515	471	515	471	
iii.	Align .deviation	9	7	13	8	12	9	13	11	
11.3	<b>Items traceability:</b>									
	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-15-02			G-15-02			GF	
iii.		Primary Damper	0469,0519,0467,0576			0488,0534,0333,0621			KNORR	
iv.		Secondary damper	97,119			145,260			GEREP	
v.		Lateral Damper	30			142			GEREP	
vi.		Yaw Damper							NIL	
vii.		Brake cylinder & Caliper	D16003/600,D16075/600 C16183/600,D16077/600			C16198/600,D16080/600 C16181/600,D16183/600			FTI	
viii.		Brake Disc							FTI	
ix.		Ball joint Control arm							GMT	
x.		Lateral Bump stop							MGN	
xi.		Traction center make							SARITA, EMSON	
xii.		Traction lever make							SARITA	
xiii.		Ball joint traction lever							GMT	
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							SARITA, 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.	6008	DISPATCH DATE				09.07.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163222	
3.	Booked to	SSE/C&W/NDLS					
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	1102		
v)	Buffer/CBC (Make )	FAVELLY		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 <sup>2</sup>		6 –10 sec	6 Sec		
		Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	GS	71/77			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT				KBI		
ii	SEAT & BERTH				OVPL		
lii	BODY SIDE DOORS				JBM,SUKATA		
lv	WATER TANKS				SHIVALIK		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				KRP		
viii	VESTIBULE SLIDING DOOR				HP		
IX	BIOTOILETS				RAIL FAB		
X	LP SHEET				PL		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6008		NR		LWSCN		163222		12-05-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166399					166400				
	ii.	<b>Frame No.</b>	BGB-13					BGB-22				
	iii.	<b>Bolster No.</b>	5783-VT					5793-VT				
	iv.	<b>Axle No.</b>	125633/377		128898/990			N-0701		K-3967		
	v.	<b>Wheel Dia.</b>	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	<b>Wheel Disc No.</b>	7279-00052	6204-00204	7279-00038	7279-00053	7277-00108	07302-00009	7270-00013	7305-00192		
	vii.	<b>R.B. Nos.</b>	05502	05246	04585	05334	04225	06078	06286	06165		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	<b>Make &amp; nos.</b>	DN-14-4-746	RSK-15-9-238	DN-14-4-660	RSK-15-9-249	DN-14-12-1116	RSK-15-9-192	DN-14-4-757	RSK-15-9-199			
ii.	<b>Ht. at test load</b>	513	467	513	469	515	469	516	471			
iii.	<b>Align .deviation</b>	7	2	11	3	13	3	14	7			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-15-2			G-15-2			GF	
	iii.	Primary Damper			758,905,489,302			449,1269,421,763			GEREP	
	iv.	Secondary damper			93,207			62,199			GEREP	
	v.	Lateral Damper			21			04			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3323/691,3195/691 3324/691,3193/691			3320/691,3196/691 3321/691,3194/691			KBI	
	viii.	Brake Disc									FTI	
	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									GMT	
	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									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6011	DISPATCH DATE				11.07.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163223	
3.	Booked to	SSE/C&W/NDLS					
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 )	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 <sup>2</sup>		6 –10 sec	6 Sec		
		Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT	PU PAINT		GS	85/87		
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			FAVELLY			
ii	SEAT & BERTH			OVPL			
iii	BODY SIDE DOORS			JBM,			
iv	WATER TANKS			SHIVALIK,			
v	FLOOR BOARD			TAYAL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			KRP			
viii	VESTIBULE SLIDING DOOR			HP			
IX	BIOTOILETS			MK PRECISION			
X	LP SHEET			PL			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6011	NR	LWSCN	163223	10-05-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166397				166398			
	ii.	Frame No.	BGB-54				BGB-02			
	iii.	Bolster No.	5781-VT				5780-VT			
	iv.	Axle No.	N-5652		N-0650		N-0924		N-0666	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	7276-00069	7277-00080	7276-00111	7276-00100	7277-00161	07302-00022	7277-00107	7277-00117
	vii.	R.B. Nos.	05570	04354	05231	03509	04735	04615	04820	05306
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-5-816	RSK-15-9-237	DN-14-5-797	RSK-15-9-210	DN-14-5-822	RSK-15-9-171	DN-14-5-829	RSK-15-9-097	
ii.	Ht. at test load	513	472	512	471	516	468	516	470	
iii.	Align .deviation	8	3	9	4	9	3	11	8	
11.3	<b>Items traceability:</b>									
	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	1223,475,1176,603			717,1178,1132,1244			GEREP	
iv.		Secondary damper	99,131			160,195			GEREP	
v.		Lateral Damper	221			225			GEREP	
vi.		Yaw Damper							NIL	
vii.		Brake cylinder & Caliper	166397/600,D16018/600 D16065/600,D16037/600			166398/600,D16017/600 D16029/600,D16031/600			FTI	
viii.		Brake Disc							FTI	
ix.		Ball joint Control arm							GMT	
x.		Lateral Bump stop							MGN	
xi.		Traction center make							EMSON, SARITA	
xii.		Traction lever make							SARITA	
xiii.		Ball joint traction lever							GMT	
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							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.	6013	DISPATCH DATE				15.07.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163229	
3.	Booked to	SSE/C&W/NDLS					
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 )		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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		GS	85/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT				KBI		
ii	SEAT & BERTH				OVPL		
iii	BODY SIDE DOORS				JBM,		
iv	WATER TANKS				SHIVALIK,AMIT,EC BLADE		
v	FLOOR BOARD				TAYAL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				KRP		
viii	VESTIBULE SLIDING DOOR				HP		
IX	BIOTOILETS				MK PRECISION		
X	LP SHEET				PL		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6013	NR	LWSCN	163229	28-04-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166361				166362			
	ii.	Frame No.	FIAT-4292				FIAT-4803			
	iii.	Bolster No.	5575-VT				5608			
	iv.	Axle No.	K-2995		K-2759		128167/984		126692/468	
	v.	Wheel Dia.	916.00	916.50	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	7279-00146	7304-00040	7274-00105	7280-00098	7292-00030	7291-00063	7275-00022	7275-00069
	vii.	R.B. Nos.	05062	05323	04701	05348	05051	05277	04305	04800
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-12-1434	DN-14-2-347	DN-14-12-1070	DN-14-3-421	DN-14-12-1176	DN-14-3-460	DN-14-11-1035	DN-14-3-457	
ii.	Ht. at test load	515	468	514	469	516	469	514	471	
iii.	Align .deviation	10	11	8	6	14	11	12	10	
11.3	<b>Items traceability:</b>									
	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			333,1,107,318		110,111,193,113		GEREP	
	iv.	Secondary damper			100,75		203,98		GEREP	
	v.	Lateral Damper			130		165		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			2953/691,2987/691 2955/691,3001/691		2956/691,3002/691 2927/691,3000/691		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							MGN	
	xiv.	Traction centre elastic							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							SARITA, EMSON	
11.4	i.	Modification / Trial (if any):							NIL	
	ii.	Deviations (if any):							NIL	

LWSCN 6013





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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6012	DISPATCH DATE				15.07.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163225	
3.	Booked to	SSE/C&W/NDLS					
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 )	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
	8.1	PAINT	PU PAINT	GS	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			OVPL		
	lii	BODY SIDE DOORS			JBM,		
	lv	WATER TANKS			SHIVALIK,MANOJ		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			KRP		
	viii	VESTIBULE SLIDING DOOR			HP		
	IX	BIOTOILETS			RAIL FAB		
	X	LP SHEET			--		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6012		NR		LWSCN		163225		28-04-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166357					166358				
	ii.	<b>Frame No.</b>	FIAT-4817					FIAT-4810				
	iii.	<b>Bolster No.</b>	5713-VT					5742-VT				
	iv.	<b>Axle No.</b>	127053/476		126887/470		127805/987		B-9660			
	v.	<b>Wheel Dia.</b>	915.00	915.00	915.00	915.00	917.00	917.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	7272-00162	7275-00142	7280-00088	7277-00212	7300-00189	7300-00071	6204-00104	7300-00037		
	vii.	<b>R.B. Nos.</b>	03859	05022	05078	04049	02555	05353	02443	03304		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-11-1150	DN-14-11-796	DN-14-12-1182	DN-14-2-389	DN-14-12-1178	DN-14-2-335	DN-14-12-1109	DN-14-02-33			
ii.	<b>Ht. at test load</b>	513	472	514	470	515	471	514	469			
iii.	<b>Align .deviation</b>	12	8	12	10	14	11	15	13			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
	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			959,1512,1492,1644		1232,1520,981,1376		GEREP			
	iv.	Secondary damper			772,784		795,780		GEREP			
	v.	Lateral Damper			134		192		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			2990/691,2999/691 2980/691,3008/691		2982/691,3009/691 2981/691,2997/691		KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN,GMT			
	xi.	Traction center make							EMSON			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							MGN			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							WINLANE			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							JVR			
	xix.	Fork make							SARITA			
11.4	i.	<b>Modification / Trial (if any):</b>					NIL					
	ii.	<b>Deviations (if any):</b>					NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6014	DISPATCH DATE				30.06. 16
2.	Railway	NR	Type	LWSCN1	Coach No.	163230	
3.	Booked to	SSE/C&W/NDLS					
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	1100		
	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 <sup>2</sup>	6 -10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			OVPL		
	lii	BODY SIDE DOORS			JBM,		
	lv	WATER TANKS			SHIVALIK,KUTEER		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			KRP		
	viii	VESTIBULE SLIDING DOOR			HP		
	IX	BIOTOILETS			m.k.precision		
	X	LP SHEET			--		
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6014	NR	LWSCN1	163230	30-05-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166465				166466			
	ii.	Frame No.	FM-484				FIAT-4112			
	iii.	Bolster No.	5647-VT				5668-PS			
	iv.	Axle No.	K-6160		N-0564		K-6282		K-5840	
	v.	Wheel Dia.	917.00	917.00	916.50	917.00	916.00	916.00	917.00	916.50
	vi.	Wheel Disc No.	7271-00204	6202-00007	7198-00078	7298-00124	7292-00204	7280-00136	7289-00135	7289-00132
	vii.	R.B. Nos.	05418	03321	05409	03925	05669	03375	04929	04112
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-5-808	RSK-15-9-346	DN-14-5-819	RSK-15-9-211	DN-14-4-783	RSK-15-9-200	DN-14-5-834	RSK-15-9-232	
ii.	Ht. at test load	516	470	514	470	510	469	511	469	
iii.	Align .deviation	13	6	12	3	10	2	12	5	
11.3	<b>Items traceability:</b>									
	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-15-9			G-15-9		GF		
	iii.	Primary Damper	505,0572,0618,0417			0464,0498,0571,0442		KNORR		
	iv.	Secondary damper	189,47			205,194		GEREP		
	v.	Lateral Damper	113			115		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper	3271/691,3191/691 3272/691,3192/691			3286/691,3190/691 3285/691,3189/691		KBI		
	viii.	Brake Disc						FTI		
	ix.	Ball joint Control arm						GMT		
	x.	Lateral Bump stop						GMT		
	xi.	Traction center make						EMSON		
	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						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.	6018	DISPATCH DATE				<b>30.06.16</b>
2.	Railway	NR	Type	<b>LWSCN1</b>	Coach No.	<b>163226</b>	
3.	Booked to	<b>SSE/C&amp;W/NDLS</b>					
4.	Tare Weight of Coach	<b>41.239 T</b>					
5.	Carrying Capacity	Seating	80	<b>Sleeping</b>	80	Luggage	<b>NIL</b>
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 )	<b>FAVELLY</b>	<b>Fiba Device</b>	<b>NA</b>		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT		<b>GS</b>	<b>86/88</b>		
	8.2	APPLICATION OF PCN-123	<b>SATISFACTORY</b>				
	8.3	INSUALTION	<b>SATISFACTORY</b>				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		<b>FAVELLY</b>			
	ii	SEAT & BERTH		<b>OVPL</b>			
	lii	BODY SIDE DOORS		<b>JBM,</b>			
	lv	WATER TANKS		<b>SHIVALIK,KUTEER,</b>			
	v	FLOOR BOARD		<b>TAYAL</b>			
	vi	PVC FLOORING		<b>RESPONSIVE</b>			
	vii	UIC VESTIBULE		<b>KRP</b>			
	viii	VESTIBULE SLIDING DOOR		<b>HP</b>			
	IX	BIOTOILETS		<b>RAIL FAB</b>			
	X	LP SHEET		<b>-</b>			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6018		NR		LWSCN1		163226		31-05-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166471					166474				
	ii.	<b>Frame No.</b>	FM-505					FM-520				
	iii.	<b>Bolster No.</b>	5834-VT					5836-P				
	iv.	<b>Axle No.</b>	K-3346		N-0383		N-0789		N-1016			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	<b>Wheel Disc No.</b>	7303-00037	6204-00203	7280-00011	6204-00004	7279-00184	7291-00179	7279-00173	7291-00108		
	vii.	<b>R.B. Nos.</b>	05572	05302	05679	05240	05673	05024	04719	05013		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-4-754	RSK-15-3-169	DN-14-5-809	RSK-15-3-178	DN-14-4-706	RSK-15-3-170	DN-14-5-843	RSK-15-3-177			
ii.	<b>Ht. at test load</b>	513	471	512	469	515	467	515	468			
iii.	<b>Align .deviation</b>	10	55	12	58	7	60	8	60			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-15-2			G-15-2			GF	
	ii.	Primary inner Spring			G-14-11			G-14-11			GF	
	iii.	Primary Damper			0951,0092,0765,0833			0888,0689,0945,0881			KNORR	
	iv.	Secondary damper			0133,019			185,173			GEREP	
	v.	Lateral Damper			0122			0121			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			D16008/600,D16085/600 D16013/600,D16078/600			D16028/600,C16183/600 D16020/600,C16184/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6010	DISPATCH DATE				30.06.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163232	
3.	Booked to	SSE/C&W/NDLS					
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 )	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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			KBI		
	ii	SEAT & BERTH			OVPL		
	lii	BODY SIDE DOORS			JBM,		
	Iv	WATER TANKS			SHIVALIK,MANOJ		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			KRP		
	viii	VESTIBULE SLIDING DOOR			HP		
	IX	BIOTOILETS			RAIL FAB		
	X	LP SHEET			--		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6010		NR		LWSCN		163232/C		06-06-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	166475					166476				
	ii.	<b>Frame No.</b>	FIAT-4866					FM-525				
	iii.	<b>Bolster No.</b>	5852-PS					5851-AS				
	iv.	<b>Axle No.</b>	K-6100		N-0393		N-0410		K-3844			
	v.	<b>Wheel Dia.</b>	916.50	916.50	916.00	916.00	916.50	916.50	916.50	916.50		
	vi.	<b>Wheel Disc No.</b>	7283-00108	7277-00071	7280-00112	7277-00145	7275-00174	07382-00202	7283-00092	7270-00068		
	vii.	<b>R.B. Nos.</b>	03659	03295	03675	03699	03850	03863	03984	03632		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-5-791	RSK-15-3-185	DN-14-5-659	RSK-15-3-222	DN-14-5-800	RSK-15-3-228	DN-14-5-820	RSK-15-3-194			
ii.	<b>Ht. at test load</b>	513	470	514	471	511	471	513	470			
iii.	<b>Align .deviation</b>	8	6	8	9	10	5	9	2			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-11			G-14-11			GF	
	ii.	Primary inner Spring			G-15-2			G-15-2			GF	
	iii.	Primary Damper			0698,0694,0948,922			929,936,941,0890			KNORR	
	iv.	Secondary damper			165,133			124,167			GEREP	
	v.	Lateral Damper			130,			111			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3273/691,3198/691 3279/691,3199/691			3280/691,3197/691 3274/691,3270/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT	
	xiv.	Traction centre elastic									GMT,SGA	
	xv.	Secondary rubber pad									BHAM	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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