



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6010	DISPATCH DATE				06.10.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163083	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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)	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		3.00 ± 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	87/88		
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 FAB, JSL	
iii.	SEATS/ BERTHS					SAVITRI	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					KALSI	
vi.	COMPTT.DOOR					JR	
vii.	WATER TANKS					KUTEER, SHIVALIK	
viii.	UIC VESTIBULE					ESCORTS	
ix	FLOOR BOARD					TAYAL	
X	PVC					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			
			6010	NR	LWACCW	163083	07-04-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166329				166330			
	ii.	Frame No.	FIAT-4189				FIAT-4808			
	iii.	Bolster No.	078/GT/ASR				143-GT/ASR			
	iv.	Axle No.	127866/987		K-3074		K-2822		129208/992	
	v.	Wheel Dia.	917.00	917.00	916.50	917.00	916.00	916.00	917.00	917.00
	vi.	Wheel Disc No.	6226-00115	6227-00109	06230-00128	6226-00080	06229-00029	06229-00028	6229-00131	7282-00044
	vii.	R.B. Nos.	05270	01704	02162	03989	30775	30511	22926	06682
	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-13-2-3241	RSK-15-9-169	DN-13-2-3245	RSK-15-9-42	DN-13-2-3033	RSK-15-9-412	DN-13-2-2923	RSK-15-9-014	
ii.	Ht. at test load	509	468	508	464	508	466	508	464	
iii.	Align .deviation	16	38	18	39	14	39	16	40	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-10		RSK-15-10		RSK	
	ii.	Primary inner Spring			RSK-14-5		RSK-14-5		RSK	
	iii.	Primary Damper			1061,1305,1056,1055		1201,1241,1502,1385		GEREP	
	iv.	Secondary damper			22,183		201,20		GEREP	
	v.	Lateral Damper			87		197		GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			M15016/600,M15053/600 M15003/600,M15059/600		M15005/600,M15007/600 M15173/600,M15020/600		FTI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	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	
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.	6016	DISPATCH DATE				12.10.16
2.	Railway	NR	Type	LWACCW	Coach No.	163084	
3.	Booked to		SSE/C&W/DLI				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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	3.00 ± 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	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			FAIVELEY		
	ii.	BIO TOILET			RAIL FAB, JSL		
	iii.	SEATS/ BERTHS			SAVITRI		
	iv.	BODY SIDE DOOR			SUKATA, JBM		
	v.	VESTIBULE SLIDING DOOR			KALSI		
	vi.	COMPTT.DOOR			JR		
	vii.	WATER TANKS			AMIT,SHIVALIK		
	viii.	UIC VESTIBULE			KRP		
	ix	FLOOR BOARD			TWPL		
	X	PVC			PRE. POLYFILM		
		L P SHEET			HINDUSTAN		
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			
			6016	NR	LFACCW	163084	15-09-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166816				166817			
	ii.	Frame No.	FM-622				FM-632			
	iii.	Bolster No.	6172-GT				6116-P			
	iv.	Axle No.	N-0471		K-6716		N-0354		N-6568	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	07113-6QJ5	02278-6QG7	00762-6QJ9	00763-6QJ9	06788-6QH7	03741-6QJ3	06788-6QH7	03830-6QJ3
	vii.	R.B. Nos.	01389	02260	02285	02024	01567	01972	02628	01250
	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.	RSK-16-6-369	GBD-16-6-22	RSK-16-6-486	GBD-16-6-21	RSK-16-6-463	GBD-16-6-134	RSK-16-6-350	GBD-16-6-460	
ii.	Ht. at test load	512	467	511	465	510	467	510	466	
iii.	Align .deviation	12	7	15	9	10	12	9	11	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-10		RSK-15-10		RSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			3070,3147,2989,2922		3428,2928,3372,3067		KNORR	
	iv.	Secondary damper			0328,0140		0436,0106		SV	
	v.	Lateral Damper			0047		0391		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			F16182/600,F16181/600 F16180/600,F16192/600		F16266/600,F16172/600 F16264/600,F16173/600		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							TECSPACK	
	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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1.	SHELL No.	6017	DISPATCH DATE				12.10.16
2.	Railway	NR	Type	LWACCW	Coach No.	163084	
3.	Booked to		SSE/C&W/DLI				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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	3.00 ± 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	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	ii.	BIO TOILET	RAIL FAB, JSL				
	iii.	SEATS/ BERTHS	SAVITRI				
	iv.	BODY SIDE DOOR	SUKATA, JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	JR				
	vii.	WATER TANKS	AMIT,SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TWPL				
	X	PVC	PRE. POLYFILM				
		L P SHEET	HINDUSTAN				
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	
			6017		NR		LWACCW		163087/C		21-09-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166840						166838			
	ii.	Frame No.	FIAT-5148						FIAT-5165			
	iii.	Bolster No.	6174-GT						6177-GT			
	iv.	Axle No.	N-0958			R-3430			P-9446		R-2284	
	v.	Wheel Dia.	916.50	917.00	916.00	916.50	917.00	917.00	917.00	916.50		
	vi.	Wheel Disc No.	07652-6QK4	07650-6QK4	03859-6QH0	03424-6QG8	00098-7196	00117-7301	7196-00102	7196-00088		
	vii.	R.B. Nos.	02117	02196	00928	01429	02593	03734	01431	02185		
	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.	RSK-15-5-949	ABOK-16-9-33	RSK-15-5-865	ABOK-16-9-36	RSK-15-5-53	ABOK-16-9-37	RSK-15-5-59	ABOK-16-9-34			
ii.	Ht. at test load	512	468	512	468	508	468	507	466			
iii.	Align .deviation	18	8	18	13	5	12	7	14			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			3059,3392,3111,3356			3190,3114,2930,3132			KNORR	
	iv.	Secondary damper			0369,0318			0396,0390			SV	
	v.	Lateral Damper			0013			0106			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G16308/600,16332/600 G16307/600,G16321/600			G16306/600,G16338/600 G16310/600,G16320/600			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									TECSPACK	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6019	DISPATCH DATE				15.10.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163086	
3.	Booked to	SSE/C&W/DLI					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	1103		
	v)	Buffer/CBC (Make)	ESCORT	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	3.00 ± 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	87/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAVELLY				
	ii.	BIO TOILET	RAIL FAB,JSL				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM,				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	JR				
	vii.	WATER TANKS	AMIT,SHIVALIK				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	PREMIER POLYFILM/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	
			6019		NR		LWACCW		163086		19-09-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166830					166831				
	ii.	Frame No.	FM-626					FM-630				
	iii.	Bolster No.	6134-P					6168-GT				
	iv.	Axle No.	N-5735		K-3431			K-5806		K-3477		
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00		
	vi.	Wheel Disc No.	04718-6QG9	04717-6QG3	00483-6MG8	00042-6QH5	00481-6MG8	03171-6QL7	00170-13353	00993-13351		
	vii.	R.B. Nos.	02390	01842	02548	02570	02486	02171	02238	00257		
	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.	RSK-16-7-948	GBD-16-6-037	RSK-16-7-888	GBD-16-6-011	RSK-16-7-942	GBD-16-6-57	RSK-16-7-695	GBD-16-6-28			
ii.	Ht. at test load	511	466	510	468	509	464	508	468			
iii.	Align .deviation	16	9	18	12	7	10	11	12			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			2974,3192,3243,3314			3039,2961,3195,3197			KNORR	
	iv.	Secondary damper			0356,0450			292,695			SV	
	v.	Lateral Damper			0451			0470			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F16178/600,F16118/600 F16131/600,F16139/600			F16218/600,F16230/600 F16215/600,F16171/600			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									TECSPACK	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6015	DISPATCH DATE				03.12.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163090	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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		3.00 ± 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	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, JSL	
	iii.	SEATS/ BERTHS				OVPL	
	iv.	BODY SIDE DOOR				JBM, SUKATA	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vi.	COMPTT.DOOR				HANSPAL	
	vii.	WATER TANKS				AMIT & SHIVALIK	
	viii.	UIC VESTIBULE				KRP	
	ix	FLOOR BOARD				NARBADA	
	X	PVC				PREMIER POLYMER	
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	
			6015		NR		LWACCW		163090		06-10-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166876						166877			
	ii.	Frame No.	FIAT-5204						FIAT-5145			
	iii.	Bolster No.	6159-GT						6184-GT			
	iv.	Axle No.	K-6048			R-2353			N-6369		K-6370	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	3732-6QJ3	03197-6QL7	7301-00196	7196-00189	00156-7198	00171-7196	07002-6QJ4	06154-6QK6		
	vii.	R.B. Nos.	02332	02352	02145	01325	06304	02115	01266	01098		
	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.	RSK-16-7-1047	AFJ-16-9-59	RSK-16-5-468	AFJ-16-9-63	RSK-16-6-1026	AFJ-16-9-58	RSK-16-6-427	AFJ-16-9-61			
ii.	Ht. at test load	510	463	510	463	512	467	510	466			
iii.	Align .deviation	9	17	8	15	11	7	11	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-12-5			RSK-15-10			L&S, RSK	
	ii.	Primary inner Spring			L&S-13-2			RSK-16-3			L&S, RSK	
	iii.	Primary Damper			3219,3222,3130,3125			3367,3370,3270,3279			KNORR	
	iv.	Secondary damper			0452,0640			0613,0538			SV	
	v.	Lateral Damper			535			509			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4247/691,4270/691 4246/691,4275/691			4232/691,4193/691 4233/691,4191/691			KBI	
	viii.	Brake Disc									KBI,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									TECSPACK	
	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.	6009	DISPATCH DATE				23.12.2016
2.	Railway	NR	Type	LWACCW	Coach No.	163082	
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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	1100		
	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	3.00 ± 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.	CDTS/ BIO TOILET	RAIL FAB, JSL				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	COMPTT.DOOR	HANSPAL				
	vii.	WATER TANKS	AMIT & SHIVALIK				
	viii.	UIC VESTIBULE	ESCORTS				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	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			
			6009	NR	LWACCW	163082	12-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166899				166898			
	ii.	Frame No.	FIAT-5156				FIAT-5224			
	iii.	Bolster No.	6269-GT				6169-GT			
	iv.	Axle No.	R-3556		K-6010		R-3695		R-3307	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	916.50	917.00
	vi.	Wheel Disc No.	03152-6QL7	03168-6QL7	03509-6QG8	07819-6QL7	00065-7196	00177-7196	03153-6QL7	03167-6QL7
	vii.	R.B. Nos.	06304	06298	06057	05236	05760	06169	06103	05608
	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.	RSK-16-7-1025	ABOK-16-9-41	RSK-16-6-938	ABOK-16-9-44	RSK-16-6-1030	ABOK-16-9-47	RSK-16-6-602	ABOK-16-9-046	
ii.	Ht. at test load	511	466	510	468	511	468	510	468	
iii.	Align .deviation	12	10	14	10	10	4	8	4	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-10		RSK-15-10		RSK	
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK	
	iii.	Primary Damper			3821,4386,4331,4329		4335,4307,4333,3845		KNORR	
	iv.	Secondary damper			0482,0010		0611,0614		SV	
	v.	Lateral Damper			0451		0552		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16153/600,G16211/600 G16037/600,G16210/600		G16194/600,G16311/600 G16198/600,G16299/600		FTI	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							MGN	
	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							TECSPACK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	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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