



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6031	DISPATCH DATE				25.08.16	
2.	Railway	NR	Type	LS3	Coach No.	163408		
3.	Booked to	SSE/C&W/NDLS						
4.	Tare Weight of Coach	40.665 T						
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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)		SANROK		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		GS	86/85		
8.2	APPLICATION OF PCN-123		SATISFACTORY					
8.3	INSUALTION		SATISFACTORY					
9.	Traceability of Furnishing Items:						Make	
I	BRAKE EQUIPMENT						KBI	
ii	SEAT & BERTH						RAJENDRA DASS	
lii	BODY SIDE DOORS						SUKATA	
lv	WATER TANKS						RAIL FAB	
v	FLOOR BOARD						TWPL	
VI	PVC						RESPONSIVE	
Vii	LP SHEET						NK	
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	
			6031		NR		LGS		163408/C		18-08-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166711					166718				
	ii.	Frame No.	FIAT-5042					FIAT-5059				
	iii.	Bolster No.	6082-VT					6053-VT				
	iv.	Axle No.	K-2785		N-6166		R-2984		K-6143			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	916.00	16.00		
	vi.	Wheel Disc No.	00796-6QJ9	00949-6QJ8	00945-6QJ8	00946-6QJ8	04344-6QL3	01359-6QK1	01379-6QK1	04341-6QL3		
	vii.	R.B. Nos.	03569	01316	01864	03811	03758	01784	01473	03444		
	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-16-4-022	FSK-16-7-19	RSK-16-4-248	FSK-16-7-11	RSK-16-4-034	FSK-16-7-34	RSK-16-4-234	FSK-16-7-41			
ii.	Ht. at test load	515	468	515	468.50	515	468.50	516	468			
iii.	Align .deviation	5	9	7	10	7	7	7	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-6			RSK-15-6			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			1526,1673,1759,1531			1568,1483,1685,1709			KNORR	
	iv.	Secondary damper			62,83			99,77			GEREP	
	v.	Lateral Damper			239			192			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3737/691,3677/691 3735/691,3676/691			3301/691,3167/691 3300/691,3169/600			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									PRAG	
	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.	6025	DISPATCH DATE				20.08.16
2.	Railway	NR	Type	LS3	Coach No.	163404	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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 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	GS	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	I	BRAKE EQUIPMENT			KBI		
	ii	SEAT & BERTH			RAJENDRA DASS		
	lii	BODY SIDE DOORS			JBM,SUKATA		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			---		
	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	
			6025		NR		LGS		163404/C		08-08-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166689						166690			
	ii.	Frame No.	FIAT-5034						FIAT-5044			
	iii.	Bolster No.	5706-VT						6028-VT			
	iv.	Axle No.	N-1011			N-0683			N-5672		N-6503	
	v.	Wheel Dia.	917.00	916.50	916.50	916.00	916.50	917.00	916.00	916.50		
	vi.	Wheel Disc No.	13352-00250	13353-00111	7275-00097	7275-00047	7275-00190	7305-00151	7280-00091	7279-00043		
	vii.	R.B. Nos.	01377	01426	01080	01442	01543	02301	02163	02479		
	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.	FSK-16-7-31	FSK-16-7-8	FSK-16-7-23	FSK-16-7-43	FSK-16-7-14	FSK-16-7-6	FSK-16-7-39	FSK-16-7-5			
ii.	Ht. at test load	511.50	468.50	511.50	468.50	513	468	512	469			
iii.	Align .deviation	7	10	9	10	7	9	7	7			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-6			RSK-15-6			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			183,185,184,177			245,149,163,182			GABRIEL	
	iv.	Secondary damper			240,201			139,15			GEREP	
	v.	Lateral Damper			0222			0196			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3065/691,3611/691 3069/691,3613/691			3628/691,3556/691 3626/691,3557/691			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									GMT	
	xv.	Secondary rubber pad									TESPACK	
	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.	6024	DISPATCH DATE				21.08.16
2.	Railway	NR	Type	LS3	Coach No.	163401	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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)		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 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	86/85		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			FAVELLY			
li	SEAT & BERTH			RAJENDRA DASS			
lii	BODY SIDE DOORS			SUKATA			
lv	WATER TANKS			RAIL FAB			
v	FLOOR BOARD			TWPL			
VI	PVC			RESPONSIVE			
Vii	LP SHEET			PL			
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			
			6024	NR	LGS	163401/C	11-08-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166695				166696			
	ii.	Frame No.	FIAT-5089				FIAT-4898			
	iii.	Bolster No.	6038-VT				6052-VT			
	iv.	Axle No.	N-6257		N-5706		N-6831		P-9809	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.50	916.50	916.50	916.50
	vi.	Wheel Disc No.	7283-00133	7271-00026	7275-00177	7271-00155	13354-00112	13354-00083	13354-00225	13351-00106
	vii.	R.B. Nos.	01653	01097	01692	02168	01778	01958	00862	03727
	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.	FSK-16-7-68	FSK-16-7-13	FSK-16-7-13	FSK-16-7-39	FSK-16-7-40	FSK-16-7-48	FSK-16-7-17	FSK-16-7-38	
ii.	Ht. at test load	515	471.50	514.50	472	513	467.50	511.50	467.50	
iii.	Align .deviation	9	7	10	8	9	9	8	7	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-6		RSK-15-6		RSK	
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			62,133,132,137		181,202,125,172		GABRIEL	
	iv.	Secondary damper			5217,29		28,252		GEREP	
	v.	Lateral Damper			0209		0208		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			F16229/600,F16141/600 F16230/600,F16143/600		F16104/600,F16075/600 F16245/600,F16268/600		FTI	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							GMT	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							GMT	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TESPACK	
	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.	6029	DISPATCH DATE				23.08.16
2.	Railway	NR	Type	LS3	Coach No.	163402	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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)	SANROK	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	GS	86/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			RAJENDRA DASS		
	lii	BODY SIDE DOORS			SUKATA		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			PL		
	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	
			6029		NR		LGS		163402/C		11-08-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166699						166700			
	ii.	Frame No.	FIAT-5084						FIAT-5029			
	iii.	Bolster No.	6063-VT						6098-VT			
	iv.	Axle No.	K-3374			N-6480			N-1078		N-0475	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	08011-6QL5	05770-6QM6	05209-6QM3	05211-6QM3	08012-6QL5	05210-6QM3	05769-6QM6	05768-6QM6		
	vii.	R.B. Nos.	01340	02041	01233	02036	02613	01631	02040	02080		
	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.	FSK-16-7-26	RSK-16-5-500	FSK-16-7-71	RSK-16-5-385	FSK-16-7-58	RSK-16-5-453	FSK-16-7-47	RSK-16-5-529			
ii.	Ht. at test load	511.50	471	512	472	514.50	472	516	472			
iii.	Align .deviation	9	6	7	4	8	11	7	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-6			RSK-15-6			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			218,219,134,146			942,1665,0495,0539			KNORR	
	iv.	Secondary damper			103,69			39,100			GEREP	
	v.	Lateral Damper			205			201			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3751/691,3718/691 3753/691,3719/691			3544/691,3590/691 3598/691,3589/691			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									GMT	
	xv.	Secondary rubber pad									TESPACK	
	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.	6026	DISPATCH DATE				24.08.16
2.	Railway	NR	Type	LS3	Coach No.	163403	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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 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			FAVELLY		
	ii	SEAT & BERTH			RAJENDRA DASS		
	iii	BODY SIDE DOORS			JBM,SUKATA		
	iv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			--		
	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			
			6026	NR	LGS	163403/C	12-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166601				166602			
	ii.	Frame No.	FIAT-4891				FIAT-4980			
	iii.	Bolster No.	5940-PS				5938-PS			
	iv.	Axle No.	N-6311		K-3249		N-5750		K-6514	
	v.	Wheel Dia.	916.00	916.00	916.50	916.50	917.00	917.00	916.50	917.00
	vi.	Wheel Disc No.	13350-00202	13351-00088	13352-00127	13352-00086	13353-00043	13351-00110	13353-00019	13351-00153
	vii.	R.B. Nos.	33945	83788	35001	34988	35078	35352	23215	33545
	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.	RSK-16-4-233	RSK-15-10-094	RSK-16-4-091	RSK-15-10-504	RSK-16-4-213	RSK-15-10-173	RSK-16-4-207	RSK-15-10-167	
ii.	Ht. at test load	516	471	516	469	515	472	516	471	
iii.	Align .deviation	6	4	9	8	2	49	3	50	
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-16-2		RSK-16-2		RSK		
	iii.	Primary Damper		036,043,027,036		1339,1282,1310,1291		GABRAIL ,KNORR		
	iv.	Secondary damper		95,67		70,31		GEREP		
	v.	Lateral Damper		251		255		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		F16223/600,F16164/600 F16224/600,F16165/600		F16202/600,F16180/600 F16206/600,F16176/600		FTI		
	viii.	Brake Disc						FTI		
	ix.	Ball joint Control arm						GMT		
	x.	Lateral Bump stop						MGN		
	xi.	Traction center make						SARITA		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						GMT,MGN		
	xiv.	Traction centre elastic						SGA,GMT		
	xv.	Secondary rubber pad						TESPACK		
	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.	6027	DISPATCH DATE				24.08.16
2.	Railway	NR	Type	LS3	Coach No.	163405	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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 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	GS	86/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			FAVELLY		
	li	SEAT & BERTH			RAJENDRA DASS		
	lii	BODY SIDE DOORS			SUKATA		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NK		
	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			
			6027	NR	LGS	163405/C	12-08-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166703				166704			
	ii.	Frame No.	FIAT-4895				FIAT-5104			
	iii.	Bolster No.	6007-VT				5984-VT			
	iv.	Axle No.	K-3817		N-5826		K-3805		K-3845	
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	917.00	917.00	916.50	916.50
	vi.	Wheel Disc No.	7271-00003	7275-00165	13109-00069	13350-00060	7271-00012	7283-00055	13352-00015	13354-00059
	vii.	R.B. Nos.	02092	02335	01513	01564	02050	01220	02034	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.	RSK-16-4-047	FSK-16-7-34	RSK-16-4-119	FSK-16-7-03	RSK-16-4-112	FSK-16-7-30	RSK-16-4-114	FSK-16-7-052	
ii.	Ht. at test load	514	467.50	516	469.50	513	467.50	114	052	
iii.	Align .deviation	10	9	11	10	3	8	7	9	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-15-6		RSK-15-6		RSK			
	ii.	Primary inner Spring	RSK-16-2		RSK-16-2		RSK			
	iii.	Primary Damper	1538,1677,1552,1546		1659,1480,1684,1499		KNORR			
	iv.	Secondary damper	266,26		28,65		GEREP			
	v.	Lateral Damper	221		0176		KNORR			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	F16173/600,F16204/600 F16176/600,F16208/600		F16101/600,F16098/600 F16263/600,F16203/600		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					AFW, SARITA			
	xiii.	Ball joint traction lever					MGN			
	xiv.	Traction centre elastic					GMT			
	xv.	Secondary rubber pad					PRAG			
	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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1.	SHELL No.	6030	DISPATCH DATE				24.08.16
2.	Railway	NR	Type	LS3	Coach No.	163407	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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)	SANROK	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	GS	86/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		FAVELLY			
	li	SEAT & BERTH		RAJENDRA DASS			
	lii	BODY SIDE DOORS		SUKATA			
	lv	WATER TANKS		RAIL FAB			
	v	FLOOR BOARD		TWPL			
	VI	PVC		RESPONSIVE			
	Vii	LP SHEET		--			
	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			
			6030	NR	LGS	163407/C	13-08-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166714				166713			
	ii.	Frame No.	FIAT-5062				FIAT-5095			
	iii.	Bolster No.	6080-VT				6043-VT			
	iv.	Axle No.	N-6489		N-0681		N-0343		R-3398	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.50	916.00	916.00
	vi.	Wheel Disc No.	03831-6QJ3	03833-6QJ3	03843-6QJ3	03833-6QJ3	05981-6QK8	00720-6QJ9	05977-6QK8	00718-6QJ9
	vii.	R.B. Nos.	03221	00818	03976	03252	01405	02640	03814	01225
	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-16-4-131	GBD-16-6-58	RSK-16-4-149	GBD-16-6-33	RSK-16-4-032	GBD-16-6-73	RSK-16-4-164	GBD-16-6-13	
ii.	Ht. at test load	514	470	514	471	514	472	515	467.50	
iii.	Align .deviation	8	9	9	10	4	7	4	10	
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-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			1472,1714,1668,1752		1715,1750,1701,1683		KNORR	
	iv.	Secondary damper			23,2		59,243		GEREP	
	v.	Lateral Damper			0186		0231		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			F16107/600,F16090/600 F16089/600,F16106/600		F16105/600,F16078/600 F16103/600,F16077/600		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							GMT	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							PRAG	
	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.	6028	DISPATCH DATE				25.08.16
2.	Railway	NR	Type	LS3	Coach No.	163406	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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 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	GS	86/85		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			KBI			
ii	SEAT & BERTH			RAJENDRA DASS			
lii	BODY SIDE DOORS			SUKATA			
lv	WATER TANKS			RAIL FAB			
v	FLOOR BOARD			TWPL			
VI	PVC			RESPONSIVE			
Vii	LP SHEET			NK			
10.1	Modification / Trail (if any):			NIL			
10.2	Deviations if any:			NIL			



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6028	DISPATCH DATE				25.08.16
2.	Railway	NR	Type	LS3	Coach No.	163406	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	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 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	GS	86/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	RAJENDRA DASS				
	lii	BODY SIDE DOORS	SUKATA				
	lv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TWPL				
	VI	PVC	RESPONSIVE				
	Vii	LP SHEET	NK				
	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			
			6028	NR	LGS	163406/C	16-08-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166702				166717			
	ii.	Frame No.	FIAT-5020				FIAT-5086			
	iii.	Bolster No.	6023-VT				6078-VT			
	iv.	Axle No.	N-6248		N-6343		R-3289		N-6453	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00967-6QJ8	00781-6QJ9	05767-6QM6	03851-6QJ3	01361-6QK1	06032-6QK8	01357-6QK1	01360-6QK1
	vii.	R.B. Nos.	01069	01642	01850	01253	03627	03701	01776	02370
	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-16-4-250	GBD-16-6-51	RSK-16-4-256	GBD-16-6-39	RSK-16-4-154	FSK-16-7-33	RSK-16-4-066	FSK-16-7-46	
ii.	Ht. at test load	514	469	513	472	515	470	515	468	
iii.	Align .deviation	3	9	5	11	3	10	3	10	
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-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			1474,1545,1682,1723		1670,1466,1788,1681		KNORR	
	iv.	Secondary damper			96,124		76,89		GEREP	
	v.	Lateral Damper			0199		200		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			3722/691,3709/691 3721/691,3710/691		3214/691,3166/691 3211/691,3168/691		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							MGN	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							PRAG	
	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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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6028	NR	LGS	163406/C	16-08-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166702				166717			
	ii.	Frame No.	FIAT-5020				FIAT-5086			
	iii.	Bolster No.	6023-VT				6078-VT			
	iv.	Axle No.	N-6248		N-6343		R-3289		N-6453	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00967-6QJ8	00781-6QJ9	05767-6QM6	03851-6QJ3	01361-6QK1	06032-6QK8	01357-6QK1	01360-6QK1
	vii.	R.B. Nos.	01069	01642	01850	01253	03627	03701	01776	02370
	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-16-4-250	GBD-16-6-51	RSK-16-4-256	GBD-16-6-39	RSK-16-4-154	FSK-16-7-33	RSK-16-4-066	FSK-16-7-46	
ii.	Ht. at test load	514	469	513	472	515	470	515	468	
iii.	Align .deviation	3	9	5	11	3	10	3	10	
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-16-2			RSK-16-2			RSK	
	iii.	Primary Damper	1474,1545,1682,1723			1670,1466,1788,1681			KNORR	
	iv.	Secondary damper	96,124			76,89			GEREP	
	v.	Lateral Damper	0199			200			KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	3722/691,3709/691 3721/691,3710/691			3214/691,3166/691 3211/691,3168/691			KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							MGN	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							PRAG	
	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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