



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6023	DISPATCH DATE				12.11.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163235	
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	1104	1104		
	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	VIBGYOR	88/90		
	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			
	lii	BODY SIDE DOORS		JBM,SUKATA			
	lv	WATER TANKS		SHIVALIK,AMIT			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		KRP			
	viii	VESTIBULE SLIDING DOOR		KALSI			
	IX	BIOTOILETS		JSL,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.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6023	NR	LWSCN	163235	24-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166934				166935			
	ii.	Frame No.	FIAT-5010				FIAT-5256			
	iii.	Bolster No.	ASR/GT/093				6206-GT			
	iv.	Axle No.	P-3456		N-6454		N-6359		R-2926	
	v.	Wheel Dia.	917.00	916.50	916.50	916.50	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	02588-5RK5	00937-6QJ8	08645-6QJ6	03669-6QK3	00018-7301	00192-7301	00120-7301	00145-7301
	vii.	R.B. Nos.	06313	05856	05502	05201	05474	05913	06413	06065
	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-15-7-78	GBD-16-7-27	FSK-15-7-03	GBD-16-7-25	FSK-15-7-11	GBD-16-7-024	FSK-15-7-01	GBD-16-7-52	
ii.	Ht. at test load	512.50	471	513.50	471	513.50	472	512	471	
iii.	Align .deviation	7	10	10	9	11	7	9	11	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-8		GBD-16-8		GBD	
	ii.	Primary inner Spring			GBD-16-8		GBD-16-8		GBD	
	iii.	Primary Damper			3856,4217,3885,4380		4279,3867,4304,3829		KNORR	
	iv.	Secondary damper			0067,0137		0106,0044		KNORR	
	v.	Lateral Damper			0412		0417		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16295/600,G16231/600 G16294/600,G16232/600		G16300/600,G16199/600 G16296/600,G16196/600		FTI	
	viii.	Brake Disc							FTI,KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	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							SARITA, EMSON	
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

LSCN6023



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6026	DISPATCH DATE				10.11.16
2.	Railway	NR	Type	LWSCN1	Coach No.	163234	
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		1104	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		VIBGYOR	88/89	
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	
lii	BODY SIDE DOORS					JBM,SUKATA	
lv	WATER TANKS					SHIVALIK,AMIT	
v	FLOOR BOARD					TAYAL	
vi	PVC FLOORING					RESPONSIVE	
vii	UIC VESTIBULE					KRP	
viii	VESTIBULE SLIDING DOOR					HP	
IX	BIOTOILETS					JSL,RAIL FAB	
X	LP SHEET					---	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6026	NR	LWSCN	163234	20-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166922				166923			
	ii.	Frame No.	FIAT-5265				FIAT-5273			
	iii.	Bolster No.	5911-PS				5998-VT			
	iv.	Axle No.	R-3406		R-3681		P-9453		R-2999	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.50	917.50	916.00	916.50
	vi.	Wheel Disc No.	05828-6QL9	06517-6QK5	00040-7301	00097-7301	00113-7301	00115-7301	06831-6QH7	01013-6QJ8
	vii.	R.B. Nos.	06338	04968	01064	06432	01399	01640	01317	01870
	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-16-7-04	GBD-16-7-15	FSK-16-7-51	GBD-16-7-45	FSK-16-7-05	GBD-16-7-55	FSK-16-7-65	GBD-16-7-46	
ii.	Ht. at test load	515	468	515.50	472	511.50	471	511.50	471	
iii.	Align .deviation	7	10	9	12	9	7	10	9	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	GBD-16-8			GBD-16-8			GBD	
	ii.	Primary inner Spring	GBD-16-8			GBD-16-8			GBD	
	iii.	Primary Damper	4005,3964,4238,4222			4031,4343,4333,3822			KNORR	
	iv.	Secondary damper	0037,0052			0306,0114			KNORR	
	v.	Lateral Damper	0442			0306			SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	G16163/600,G16174/600 0 G16165/600,G16170/600 0			G16155/600,G16201/600 0 G16156/600,G16198/600 0			FTI	
	viii.	Brake Disc							KBI,FTI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA EMSON	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TECSPAC K	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	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.	6021	DISPATCH DATE				22.11.2016
2.	Railway	NR	Type	LWSCN1	Coach No.	163236	
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	1100	1104		
	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	VIBGYOR	86/88		
	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		AMIT & SHIVALIK			
	v	FLOOR BOARD		TAYAL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		KRP			
	viii	VESTIBULE SLIDING DOOR		KALSI			
		CDTS		RAIL FAB, JSL			
		PARTITION		PL			
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			
			6021	NR	LWSCN	163236	27-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166938				166941			
	ii.	Frame No.	FIAT-4853				FIAT-5229			
	iii.	Bolster No.	6304-P				6305-P			
	iv.	Axle No.	N-0452		N-6461		R-3608		R-3351	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06598-6QM1	05987-6QK8	01111-6QG5	07289-6QJ6	06822-6QH1	06062-6MG6	00045-7301	00119-7301
	vii.	R.B. Nos.	06160	05170	06119	05263	05475	05500	05171	06315
	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-15-7-21	GBD-16-7-23	FSK-15-7-35	GBD-16-7-01	FSK-15-7-18	GBD-16-7-14	FSK-15-7-57	GBD-16-7-48	
ii.	Ht. at test load	512	471	512	472	513	468	515	470	
iii.	Align .deviation	10	6	9	5	9	6	9	7	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-8		GBD-16-8		GBD	
	ii.	Primary inner Spring			GBD-16-8		GBD-16-8		GBD	
	iii.	Primary Damper			3855,3863,3857,4249		4131,4327,4191,4315		KNORR	
	iv.	Secondary damper			353,394		342,172		GEREP	
	v.	Lateral Damper			321		375		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			04110/691,04141/691 04103/691,04144/691		K3072/691,K2356/691 K3071/691,K2433/691		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	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	
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.	6022	DISPATCH DATE				22.11.2016
2.	Railway	NR	Type	LWSCN1	Coach No.	163237	
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)	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	VIBGYOR	85/86		
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, SUKATA			
iv	WATER TANKS			AMIT & SHIVALIK			
v	FLOOR BOARD			TAYAL			
vi	PVC FLOORING			RESPONSIVE			
vii	UIC VESTIBULE			KRP			
viii	VESTIBULE SLIDING DOOR			KALSI			
	CDTS			RAIL FAB, JSL			
	PARTITION			PL			
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			
			6022	NR	LWSCN	163237	29-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166954				166957			
	ii.	Frame No.	FM-683				FM-688			
	iii.	Bolster No.	6298-P				6286-P			
	iv.	Axle No.	P-9254		N-0326		R-2615		N-6240	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	916.00	916.00
	vi.	Wheel Disc No.	00161-7301	00162-7301	05707-6QM6	00043-6QH5	07077-6QJ4	07076-6QJ4	05708-6QH0	00038-6QH5
	vii.	R.B. Nos.	06367	06340	01607	05305	05176	03507	06470	06172
	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-15-9-09	RSK-15-9-360	FSK-15-9-37	RSK-15-9-276	FSK-15-9-10	RSK-15-9-287	FSK-15-9-45	RSK-15-9-256	
ii.	Ht. at test load	514	467	514	469	513	471	514	471	
iii.	Align .deviation	8	4	7	4	10	5	9	8	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-11		GBD-16-11		GBD	
	ii.	Primary inner Spring			G-14-3		G-14-3		GF	
	iii.	Primary Damper			4261,3936,4318,4173		4132,3950,3948,3945		KNORR	
	iv.	Secondary damper			34,51		102,47		GEREP	
	v.	Lateral Damper			0274		0311		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16021/600,G16156/600 G16022/600,G16128/600		G16113/600,G16035/600 G16108/600,G16136/600		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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6025	DISPATCH DATE				18.11.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	163241	
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	1102	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	VIBGYOR	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	OVPL				
	iii	BODY SIDE DOORS	JBM, SUKATA				
	iv	WATER TANKS	AMIT, SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	KALSI				
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	
			6025		NR		LWSCN		163241/C		27-10-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166904					166905				
	ii.	Frame No.	FIAT-5219					FM-636				
	iii.	Bolster No.	6226-GT					6247-GT				
	iv.	Axle No.	N-6768		R-3036		K-3097		P-9074			
	v.	Wheel Dia.	917.00	916.50	917.00	917.00	916.50	916.50	917.00	917.00		
	vi.	Wheel Disc No.	00044-7196	00046-7196	07199-6QJ5	05847-6QL9	05820-6QL3	08420-6QH4	00050-7301	00201-7301		
	vii.	R.B. Nos.	05313	06251	06157	06231	05296	05419	04991	05494		
	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-16-6-6	RSK-16-4-673	GBD-16-6-42	RSK-16-4-617	GBD-16-6-23	RSK-16-4-830	GBD-16-6-8	RSK-16-4-666			
ii.	Ht. at test load	515	472	515	471	513	472	513	472			
iii.	Align .deviation	6	7	9	9	5	8	6	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-06			RSK-15-06			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			4359,4381,4393,4365			4379,4353,4384,3938			KNORR	
	iv.	Secondary damper			0088,0090			0079,0117			KNORR	
	v.	Lateral Damper			0504			0528			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4129/691,4126/691 4130/691,4127/691			4198/691,4116/691 4197/691,4113/691			KBI	
	viii.	Brake Disc									FTI	
	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									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	
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				21.11.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	163238	
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	1102	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	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	SEAT & BERTH	OVPL				
	iii	BODY SIDE DOORS	JBM				
	iv	WATER TANKS	AMIT, SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	viii	VESTIBULE SLIDING DOOR	KALSI				
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	
			6028		NR		LWSCN		163238		22-10-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166928						166929			
	ii.	Frame No.	FIAT-5253						FIAT-5234			
	iii.	Bolster No.	3534-P						76/VTC/ASR			
	iv.	Axle No.	P-9609			P-9368			R-2319		R-3704	
	v.	Wheel Dia.	918.00	918.00	918.00	918.00	916.00	916.00	916.00	916.00		
	vi.	Wheel Disc No.	00121-7196	0042-7301	03850-6QJ3	02043-6QG0	00058-7301	00174-7301	00081-7301	00146-7301		
	vii.	R.B. Nos.	06163	05391	06337	06130	06106	05550	06199	04995		
	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-15-07-46	GBD-16-02-53	FSK-15-07-54	GBD-16-07-32	FSK-15-07-64	GBD-16-07-10	FSK-15-07-61	GBD-16-07-47			
ii.	Ht. at test load	516	472	516	472	512.50	468	514.50	472			
iii.	Align .deviation	8	10	9	12	7	7	9	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			GBD-16-8			GBD-16-8			GBD	
	ii.	Primary inner Spring			GBD-16-8			GBD-16-8			GBD	
	iii.	Primary Damper			4024,3968,3868,4314			4295,4230,3894,4267			KNORR	
	iv.	Secondary damper			0103,0123			0055,0089			KNORR	
	v.	Lateral Damper			0460			0358			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4268/691,4281/691 4267/691,4279/691			4265/691,4282/691 4266/691,4280/691			KBI	
	viii.	Brake Disc									FTI,KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	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									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				16.11.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	163239	
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)		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		VIBGYOR	86/86	
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, SUKATA	
iv	WATER TANKS					AMIT, SHIVALIK	
v	FLOOR BOARD					TAYAL	
vi	PVC FLOORING					RESPONSIVE	
vii	UIC VESTIBULE					KRP	
viii	VESTIBULE SLIDING DOOR					KALSI	
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			
			6027	NR	LWSCN	163239/C	19-10-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166924				166925			
	ii.	Frame No.	FIAT-5244				FIAT-5218			
	iii.	Bolster No.	6154-GT				6054-VT			
	iv.	Axle No.	R-2770		R-2841		R-3455		R-3626	
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	918.00	918.00	917.00	917.00
	vi.	Wheel Disc No.	06832-6QH7	00873-6QJ9	05701-6QM6	05704-6QM6	05699-6QM6	00149-6QH5	04400-6QL3	03165-6QL7
	vii.	R.B. Nos.	01872	03280	05260	06477	05238	06028	05611	06046
	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-15-7-53	GBD-16-7-51	FSK-15-7-2	GBD-16-7-11	FSK-15-7-52	GBD-16-7-36	FSK-15-7-59	GBD-16-7-28	
ii.	Ht. at test load	515	472	515	472	516	469	516	468	
iii.	Align .deviation	10	12	8	11	7	10	10	12	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	GBD-16-8		GBD-16-8		GBD			
	ii.	Primary inner Spring	GBD-16-8		GBD-16-8		GBD			
	iii.	Primary Damper	4138,3901,3984,4310		4276,3853,4216,4041		KNORR			
	iv.	Secondary damper	0040,0048		0050,0039		K/B,SV			
	v.	Lateral Damper	270		401		SV			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	4217/691,4112/691 4219/691,4111/691		4240/691,4268/691 4239/691,4267/691		KBI			
	viii.	Brake Disc					FTI,KBI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					MGN			
	xi.	Traction center make					SARITA, 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					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.	6029	DISPATCH DATE				17.11.2015
2.	Railway	NR	Type	LWSCN1	Coach No.	163240	
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)	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	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	SEAT & BERTH	OVPL				
	iii	BODY SIDE DOORS	JBM, SUKATA				
	iv	WATER TANKS	AMIT, SHIVALIK, KUTEER				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	KALSI				
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	
			6029		NR		LWSCN		163040/C		17-10-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166902					166903				
	ii.	Frame No.	FIAT-5154					FIAT-5200				
	iii.	Bolster No.	6236-GT					6263-GT				
	iv.	Axle No.	K-5807		N-0835		R-2944		R-2305			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00		
	vi.	Wheel Disc No.	7197-6QJ6	01057-6QG5	05388-6MG9	03677-6QK3	00021-6QH5	04405-6QL3	00006-7301	00108-7301		
	vii.	R.B. Nos.	05544	01950	06183	02336	05388	02483	06201	05168		
	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-16-5-47	RSK-16-4-291	GBD-16-5-45	RSK-16-4-831	GBD-16-5-13	RSK-16-4-365	GBD-16-5-48	RSK-16-4-621			
ii.	Ht. at test load	516	467	516	472	516	471	516	469			
iii.	Align .deviation	8	8	6	3	6	11	8	16			
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-15-06			RSK-15-06			RSK	
	iii.	Primary Damper			4274,4277,4257,4281			4075,4079,4287,4273			KNORR	
	iv.	Secondary damper			057,073			0091,097			KNORR	
	v.	Lateral Damper			0792			346			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4258/691,4254/691 4259/691,4252/691			4260/691,4256/691 4235/691,4253/691			KBI	
	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									TE9SPACK	
	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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