



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5079	DISPATCH DATE				22.4.2016
2.	Railway	ECR	Type	LWSCN1	Coach No.	16204	
3.	Booked to		SSE/C&W/RNCC				
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 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				
	lv	WATER TANKS	SHIVALIK,EC BLADE				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	KALSI				
	IX	BIO TANK	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	
			5079		ECR		LWSCN		16204/C		24-02-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166094						166095			
	ii.	Frame No.	FIAT-4520						FIAT-3953			
	iii.	Bolster No.	5490-P						5266-P			
	iv.	Axle No.	126899/470		128584/989		130100/986		128491/983			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	6227-00067	06223-00012	7216-00099	06223-00150	6210-00088	7282-00125	6227-00080	06223-00191		
	vii.	R.B. Nos.	02620	02056	02462	01912	02362	01914	01909	02812		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
	Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner		
i.	Make & nos.	DN-14-12-1018	G-14-12-092	DN-14-12-1132	G-14-12-054	DN-14-12-1126	G-14-12-076	DN-14-12-1007	G-14-12-103			
ii.	Ht. at test load	515	472	515	471	515	471	516	470			
iii.	Align .deviation	15	13	13	12	10	10	13	11			
11.3	Items traceability:											
	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			632,1535,1349,975			811,1306,1304,1539			GEREP	
	iv.	Secondary damper			157,226			165,09			GEREP	
	v.	Lateral Damper			18			558			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			M15077/600,M15073/600 M15183/600,M15074/600			L15129/600,L15151/600 L15013/600,L15169/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									EMSON	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									WINLANE	
	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				

LWSCN 5079



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6001	DISPATCH DATE				12.5.2016
2.	Railway	ECR	Type	LWSCN1	Coach No.	16208	
3.	Booked to		SSE/C&W/RNCC				
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)	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	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				
	lii	BODY SIDE DOORS	JBM				
	lv	WATER TANKS	SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORT				
	viii	VESTIBULE SLIDING DOOR	KALSI				
	IX	BIO TANK	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	
			6001		EC		LWSCN		16208		28-12-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	157002						157009			
	ii.	Frame No.	TEXUGL-06						TEXUGL -05			
	iii.	Bolster No.	5273-P						5386-VT			
	iv.	Axle No.	128675/989		128356/199		128966/986		128686/989			
	v.	Wheel Dia.	916.00	916.00	915.00	915.00	915.00	915.50	916.00	915.50		
	vi.	Wheel Disc No.	6211-00013	7172-00066	6207-00164	6228-00009	6222-00140	7172-00137	7150-00071	7150-00129		
	vii.	R.B. Nos.	29866	01384	29993	01259	02345	02594	02200	02826		
	viii.	R.B. Make	SKF		SKF		TIM		TIM			
	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-14-1-164	DN-14-1-258	DN-14-1-163	DN-14-1-129	DN-14-1-206	DN-14-1-158	DN-14-1-381	DN-14-1-301			
ii.	Ht. at test load	514	469	515	468	513	471	514	472			
iii.	Align .deviation	18	13	14	13	14	13	14	11			
11.3	Items traceability:											
	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-14-12			G-14-12			GF	
	iii.	Primary Damper			415,884,564,1118			1176,451,593,1138			GEREP	
	iv.	Secondary damper			123,127			19,125			GEREP	
	v.	Lateral Damper			425			165			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15049/600,15030/600 15057/600,15064/600			L15061/600,15046/600 L15099/600,15047/600			FTI	
	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,MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWSCN6001



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6003	DISPATCH DATE				14.5.2016
2.	Railway	ECR	Type	LWSCN1	Coach No.	16209	
3.	Booked to	SSE/C&W/RNCC					
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)	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	87/87		
	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		
	lii	BODY SIDE DOORS			JBM		
	lv	WATER TANKS			SHIVALIK		
	v	FLOOR BOARD			TAYAL		
	vi	PVC FLOORING			RESPONSIVE		
	vii	UIC VESTIBULE			KRP		
	viii	VESTIBULE SLIDING DOOR			KALSI		
	IX	BIO TANK			RAIL FAB		
	X	LP SHEET					
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			
			6003	EC	LSCN	16209/C	29-04-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166363				166364			
	ii.	Frame No.	FIAT-4728				FIAT-4772			
	iii.	Bolster No.	5738-VT				5724-VT			
	iv.	Axle No.	126857/470	128464/983	114192/874	128884/990				
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00
	vi.	Wheel Disc No.	7274-00134	7275-00073	7279-00168	7274-00108	6204-00050	7272-00159	7274-00096	6204-00196
	vii.	R.B. Nos.	05089	02965	05449	05025	04632	04738	04815	05030
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-12-1175	DN-14-3-488	DN-14-12-1133	DN-14-2-329	DN-13-6-108	G-14-12-099	DN-13-6-107	G-14-12-026	
ii.	Ht. at test load	514	471	515	471	515	471	514	4709	
iii.	Align .deviation	9	12	11	16	15	3	16	9	
11.3	Items traceability:									
	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	1180,891,1533,1581		972,1553,977,1060		GEREP			
	iv.	Secondary damper	158,24		93,84		GEREP			
	v.	Lateral Damper	127		167		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	2987/691,3014/691 2983/691,3013/691		2970/691,3016/691 2991/691,3034/691		KBI			
	viii.	Brake Disc					FTI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					MGN,GMT			
	xi.	Traction center make					EMSON, SARITA			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					SGA,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.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

LWSCN 6003



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6002	DISPATCH DATE				14.5.2016
2.	Railway	ECR	Type	LWSCN1	Coach No.	16210	
3.	Booked to		SSE/C&W/RNCC				
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	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 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	85/86		
	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				
	lv	WATER TANKS	SHIVALIK				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORT				
	viii	VESTIBULE SLIDING DOOR	KALSI				
	IX	BIO TANK	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			
			6002	EC	LSCN	16210	03-02-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166090				166091			
	ii.	Frame No.	FIAT-4521				FIAT-4602			
	iii.	Bolster No.	5484-P				5452-P			
	iv.	Axle No.	126835/468		125618/377		127047/476		127919/988	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6210-00148	06234-00006	06226-00127	6206-00163	06226-00088	06223-00038	6223-00016	7282-00083
	vii.	R.B. Nos.	05716	01306	01293	01415	05301	33897	02244	34007
	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-14-11-1029	DN-14-02-380	DN-14-03-523	DN-14-02-389	DN-14-11-1058	DN-14-02-416	DN-14-03-525	DN-14-02-309	
ii.	Ht. at test load	513	470	513	471	515	472	516	470	
iii.	Align .deviation	11	12	11	7	10	10	9	8	
11.3	Items traceability:									
	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		300,113,141,2058		254,2075,262,147		GEREP		
	iv.	Secondary damper		118,02		11,36		GEREP		
	v.	Lateral Damper		585		600		GEREP		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper		M15042/600,M15004/600 M15043/600,M15009/600		L15131/600,L15142/600 L15128/600,L15132/600		FTI		
	viii.	Brake Disc						KBI		
	ix.	Ball joint Control arm						GMT		
	x.	Lateral Bump stop						MGN		
	xi.	Traction center make						EMSON		
	xii.	Traction lever make						SARITA		
	xiii.	Ball joint traction lever						SGA		
	xiv.	Traction centre elastic						SGA		
	xv.	Secondary rubber pad						WINLANE		
	xvi.	Rubber spring						GMT		
	xvii.	Anti roll bar make						SARITA, EMSON		
	xviii.	Ball joint roll link						SARITA		
	xix.	Fork make						SARITA		
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWSCN 6002



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	5084	DISPATCH DATE				27.4.2016
2.	Railway	ECR	Type	LWSCN1	Coach No.	16205	
3.	Booked to		SSE/C&W/RNCC				
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	1103	
v)	Buffer/CBC (Make)		FAIVELEY		Fiba Device	NA	
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 -10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		GS	85/88	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT					FAIVELEY	
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					KALSI	
IX	CDTS/BIO TOILET					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			
			5084	ECR	LWSCN	16205/C	21-01-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166010				166011			
	ii.	Frame No.	TEXGUL-07				TEXGUL-03			
	iii.	Bolster No.	5336-P				5399-VT			
	iv.	Axle No.	129344/982	114117/374	126306/474	128065/988				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7290-00007	6277-00070	7284-00090	7216-00093	7216-00168	06223-00049	6227-00093	7273-00082
	vii.	R.B. Nos.	34153	33865	01327	16809	02394	02435	06654	23056
	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.	DN-14-11-1139	DN-14-09-711	DN-14-11-1019	DN-14-09-782	DN-14-11-1033	DN-14-09-765	DN-14-11-1065	DN-14-09-799	
ii.	Ht. at test load	515	472	515	470	516	470	515	470	
iii.	Align .deviation	13	12	12	7	11	11	12	11	
11.3	Items traceability:									
	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	1666,1430,1635,1655		1448,1395,1415,1769		GEREP			
	iv.	Secondary damper	26,115		133,56		GEREP			
	v.	Lateral Damper	514		43		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	L15014/600,K15200/600 K15193/600,L15012/600		M15012/600,M15013/600 M15017/600,M15018/600		FTI			
	viii.	Brake Disc					KBI			
	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					SGA			
	xv.	Secondary rubber pad					TESPAK			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					EMSON			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5083	DISPATCH DATE				10.5.2016
2.	Railway	ECR	Type	LWSCN1	Coach No.	16207	
3.	Booked to		SSE/C&W/RNCC				
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 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	86/88		
	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				
	lii	BODY SIDE DOORS	JBM,SUKATA				
	lv	WATER TANKS	SHIVALIK,MANOJ				
	v	FLOOR BOARD	TAYAL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	KALSI				
	IX	BIO TANK	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			
			5083	ECR	LWSCN	16207/C	15-03-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166080				166081			
	ii.	Frame No.	FIAT-4121				FIAT-4599			
	iii.	Bolster No.	5477-P				5451-P			
	iv.	Axle No.	126974/476	128610/989	129110/992	128836/990				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	6227-00001	7273-00093	7222-00105	7273-00117	7297-00206	6210-00125	6210-00063	6929-00197
	vii.	R.B. Nos.	06719	34179	01485	01432	05697	16677	16680	30182
	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.	DN-14-10-1144	DN-14-11-727	DN-14-11-1052	DN-14-11-731	DN-14-11-1053	DN-14-11-763	DN-14-11-1095	DN-14-11-703	
ii.	Ht. at test load	516	471	515	470	510	470	510	470	
iii.	Align .deviation	16	10	13	11	12	10	16	9	
11.3	Items traceability:									
	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-15-12		G-15-12		GF			
	iii.	Primary Damper	273,176,1392,1652		127,841,1423,1510		GEREP			
	iv.	Secondary damper	534,1349		500,985		GEREP			
	v.	Lateral Damper	452		24		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	2005/691,2071/691 2024/691,2070/691		2075/691,2011/691, 2013/691,2073/691		KBI			
	viii.	Brake Disc					KBI			
	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					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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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6005	ECR	LWSCN	16206/C	12-01-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166016				166017			
	ii.	Frame No.	BEC-030				FIAT-4478			
	iii.	Bolster No.	5381-VT				5413-VT			
	iv.	Axle No.	126593/480	128402/983	126842/470	128372/991				
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	06234-00064	7282-00045	6227-00158	06234-00219	7282-00144	7273-00197	6227-00170	6223-00216
	vii.	R.B. Nos.	02533	06201	01538	04878	03470	02319	03078	03772
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	DN-14-11-1093	DN-14-10-715	DN-14-11-1113	DN-14-11-725	DN-14-11-1046	DN-14-9-797	DN-14-11-1089	DN-14-09-798	
ii.	Ht. at test load	510	472	511	470	515	471	514	471	
iii.	Align .deviation	3	10	4	11	12	14	8	8	
11.3	Items traceability:									
	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-14-5		G-14-5		GF			
	iii.	Primary Damper	2243,2203,2216,2231		2192,2035,2095,2212		GEREP			
	iv.	Secondary damper	130,9		128,126		GEREP			
	v.	Lateral Damper	537		562		GEREP			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	M15031/600,M15038/600 M15071/600,M15039/600		M15001/600,M15084/600 M15018/600,M15078/600		FTI			
	viii.	Brake Disc					KBI			
	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,SGA			
	xv.	Secondary rubber pad					WINLANE			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					EMSON			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

LWSCN 6005