



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7015	DISPATCH DATE				03/08/17
2.	Railway	NR	Type	LWLRRM	Coach No.		173854
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT				K 2016 L2791	
	iii.	BIO-TOILET				RAIL FAB+RAIL TECH	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JVR	
	vi.	VESTIBULE SLIDING DOOR				HANSPAL	
	vii.	CREW-GEN & GUARD ROOM DOOR				JBM/KALSI	
	viii.	WATER TANKS				RAIL TECH & AMIT	
	ix	FUEL TANK				GAURAV ASSOCIATES	
	x	UIC VESTIBULE				SSIPL	
	XI	FLOOR BOARD				NARBADA	
	XII	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176614615

11. Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
		7015	NR	LWLRRM	173854/C	03-AUG-17			
11.1 Wheel & Axle Details:									
i.	Bogie No.	176614			176615				
ii.	Frame No.	FIAT-5578			FIAT-5772				
iii.	Bolster No.	GI-7098			GT-7102				
iv.	Axle No.	W-2987		S-9747	W-3476 V-1775				
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side Phonic wheel side Phonic wheel side Plane side			
vi.	Wheel Dia.	916.00	916.00	916.50	916.00	916.00 916.00 916.00 916.00			
vii.	Wheel Disc No.	00033-7257	00037-7257	00189-7274	00072-6044	00184-7250 00029-6044 00028-6044 00120-6193			
viii.	RB Nos.	03533	04106	04190	04274	04176 04144 04935 03819			
ix.	RB Make	TIMKEN		TIMKEN	TIMKEN TIMKEN				
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2 Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side	
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	Make & Nos.	GBD-17-03-30	FSK-15-5-18	GBD-17-03-12	FSK-15-5-15	FSK-17-04-90	G-15-10-204	FSK-17-04-63	G-15-10-173
ii.	Ht. at lest load	509.00	468.00	509.00	468.50	511.50	470.00	513.50	470.00
iii.	Align. deviation	11.00	7.00	12.00	7.00	11.00	7.00	14.00	5.00
Items traceability:									
11.3		Sno. Item				Make			
i.	Primary Outer Spring	L4S-15-12			L4S-15-12		L4S		
ii.	Primary inner Spring	RSK-16-12			RSK-16-06		RSK		
iii.	Primary Damper	36944, 35949, 35945, 36662		35967, 36794, 35983, 36659		KONI			
iv.	Secondary Damper	352, 351			321, 332		GABRIEL		
v.	Lateral Damper	014			207		GABRIEL		
vi.	Break cylinder & Caliper	7012, L3636, 7013, L3634			7017, 6927, 7023, 6032		KBI		
vii.	Break Disc						FTI		
viii.	Control arm top						KUMAR		
ix.	Control arm bottom						KUMAR		
x.	top rubber pad						GMT		
xi.	Vertical Bump Stop						GMT		
xii.	Ball Joint Control arm						GMT		
xiii.	Lateral Bump stop						GMT		
xiv.	Traction center make						SARITA ENSON		
xv.	Traction lever make						SARITA		
xvi.	Ball joint traction lever						SCA		
xvii.	Traction center elastic						GMT		
xviii.	Secondary rubber pad						DUREL		
xix.	Rubber spring						GMT		
xx.	Anti roll bar make						ENSON		
xxi.	Ball joint roll link						SARITA		
xxii.	FORK make						RNG ENSON		
11.4		i. Modification/Trail (if any):		NIL					
		ii. Deviations (if any):		NIL					

LPC-7015



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7019	DISPATCH DATE				02/09/17
2.	Railway	NR	Type	LWLRRM	Coach No.		173861
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAVELLY				
	iii.	BIO-TOILET	RAIL FAB				
	iv.	SEATS/S&B	GANDHI				
	v.	BODY SIDE DOOR	JVR				
	vi.	VESTIBULE SLIDING DOOR	KALSI				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/KALSI				
	viii.	WATER TANKS	RAIL TECH & RAIL FAB				
	ix	FUEL TANK	GAURAV ASSOCIATES				
	x	UIC VESTIBULE	ESCORT				
	XI	FLOOR BOARD	NARBADA				
	XII	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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Rail Coach Factory , Kapurthala

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		7019	NR	LWLRRM	173861	08-03-2017				
11.1	Wheel & Axle Details:	Gen.van side 1 hand brake				Gen.van side 2				
	i.	Bogie No.	176204				176198			
	ii.	Frame No.	FIAT-5529				SCI/FM-823			
	iii.	Bolster No.	6566-GT				6707-P			
	iv.	Axle No.	R-3395		S-2877		N-5725		N-6122	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00098/6 218	00189/6 215	00111/6 044	00006/6 176	00145/6 193	00193/6 133	00192/6 133	00171/619 8
	viii.	R.B. Nos.	81271	80626	80128	80842	76935	23538	27048	77609
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
	x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
	Description	Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-054	G-15-10-137	G-15-9-048	G-15-10-141	RSK-16-10-548	G-15-10-199	RSK-16-10-544	G-15-10-163	
ii.	Ht. at test load	511	466	509	465	513	470	514	469	
iii.	Align .deviation	7	14	8	14	6	3	5	1	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			FSK-16-7		FSK-16-7		FSK	
	iii.	Primary Damper			36352,35863,35888,36228		35813,36420,36262,36253		KONI	
	iv.	Secondary damper			0096,0102		0015,0136		SV	
	v.	Lateral Damper			0461		0879		SV	
	vi.	Brake cylinder & Caliper			C17021/2000,D17013/2000 C17020/2000,D17010/2000		C17022/2000,C17004/2000 C17019/2000,C17002/2000		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							GMT	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPA	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	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.	7012	DISPATCH DATE				19/08/17
2.	Railway	NR	Type	LWLRRM	Coach No.		173856
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
i.			BRAKE EQUIPMENT				KBI
iii.			BIO-TOILET				RAIL FAB
iv.			SEATS/S&B				AMIR CHAND
v.			BODY SIDE DOOR				JVR
vi.			VESTIBULE SLIDING DOOR				HANSPAL
vii.			CREW-GEN & GUARD ROOM DOOR				JBM/KALSI
viii.			WATER TANKS				RAIL FAB,RAIL TECH
ix			FUEL TANK				GAURAV ASSOCIATES
x			UIC VESTIBULE				SSIPL
XI			FLOOR BOARD				TWPL
XII			PVC				RESPONSIVE
10.							
10.1	Modification / Trail (if any):						NIL
10.2	Deviations if any:						NIL



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			7012		NR		LWLRRM		173856		13-10-2016	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	166906					166907				
	ii.	Frame No.	FIAT-5225					FIAT-5232				
	iii.	Bolster No.	6237-GT					6259-GT				
	iv.	Axle No.	N-6327		R-3128		P-2889		N-5934			
	v.	Wheel Dia.	916.50	916.50	917.00	917.00	917.00	917.00	918.00	917.50		
	vi.	Wheel Disc No.	02042-6QG0	03849-6QJ3	01123-6QG5	04451-6QL3	00184-7196	00033-7196	04409-6QL3	06835-6QH7		
	vii.	R.B. Nos.	05226	06145	01660	05195	06126	06544	06326	06228		
	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-16-04-465	RSK-16-4-157	DN-16-04-465	RSK-16-4-181	G-16-1-982	DN-16-4-385	G-16-1-984	DN-16-4-463		
ii.	Ht. at test load		511	468	512	467	513	474	513	468		
iii.	Align .deviation		7	3	7	4	20	11	23	11		
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-15-9		G-15-9		GF			
	ii.	Primary inner Spring			GBD-15-6		GBD-15-6		GBD			
	iii.	Primary Damper			4361,3921,3925,4347		4334,4387,4386,4346		KNORR			
	iv.	Secondary damper			0483,0522		0459,0616		SV			
	v.	Lateral Damper			0303		0340		SV			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	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							TECSPAK			
	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.	7016	DISPATCH DATE				26/08/17
2.	Railway	NR	Type	LWLRRM	Coach No.		173855
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	iii.	BIO-TOILET	RAIL FAB				
	iv.	SEATS/S&B	GANDHI				
	v.	BODY SIDE DOOR	JVR				
	vi.	VESTIBULE SLIDING DOOR	HANSPAL				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/KALSI				
	viii.	WATER TANKS	RAIL FAB,RAIL TECH				
	ix	FUEL TANK	GAURAV ASSOCIATES				
	x	UIC VESTIBULE	SSIPL				
	XI	FLOOR BOARD	NARBADA				
	XII	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	
			7016		NR		LWLRRM		173855		14-10-2016	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non guard)				
	i.	Bogie No.	166908					166909				
	ii.	Frame No.	FIAT-5213					FIAT-5209				
	iii.	Bolster No.	6270-GT					6132-P				
	iv.	Axle No.	N-0531		N-6434		K-6494		K-3265			
	v.	Wheel Dia.	916.50	916.50	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	04322-6QL3	08422-6QH4	03667-6QK3	06737-6QH6	05054-6QH3	05360-6MG9	08421-6QH4	05824/6QL9		
	vii.	R.B. Nos.	06136	05533	05252	06158	05563	05947	06447	05932		
	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-16-4-477	RSK-16-4-205	DN-16-4-401	RSK-16-4-009	G-16-1-1011	DN-16-3-407	G-16-1-588	DN-16-3-455			
ii.	Ht. at test load	509	466	509	468	512	469	512	467			
iii.	Align .deviation	5	15	7	16	18	20	17	16			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S			
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S			
	iii.	Primary Damper			4211,4213,4367,4225		4236,3835,4226,4227		KNORR			
	iv.	Secondary damper			0020,0488		0479,0610		SV			
	v.	Lateral Damper			0341		0318		SV			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							-----			
	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							TECSPAK			
	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					

LPC-7016



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7011	DISPATCH DATE				26/08/17
2.	Railway	NR	Type	LWLRRM	Coach No.		173858
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIO-TOILET			RAIL FAB		
	iv.	SEATS/S&B			AMIR CHAND		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI		
	viii.	WATER TANKS			RAIL FAB,AMIT		
	ix	FUEL TANK			GAURAV ASSOCIATES		
	x	UIC VESTIBULE			SSIPL		
	XI	FLOOR BOARD			NARBADA		
	XII	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				
		7011	NR	LWLRRM	173858	14-03-2017				
11.1	Wheel & Axle Details:	Gen.van side 1 hand brake				Gen.van side 2				
	i.	Bogie No.	176221				176223			
	ii.	Frame No.	FIAT-5410				FIAT-5464			
	iii.	Bolster No.	6721-P				6739-P			
	iv.	Axle No.	S-2875		N-0923		N-5836		S-9882	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	916.00	916.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00081/6 203	00035/6 201	00182/6 217	00195/6 201	00079/6 187	00109/6 070	00161/6 176	00102/6 176
	viii.	R.B. Nos.	76380	78053	80701	81306	87589	76758	76279	73371
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
	Description	Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-108	G-15-10-215	G-15-9-114	G-15-10-208	RSK-16-9-585	G-15-9-130	RSK-16-9-271	G-15-9-145	
ii.	Ht. at test load	510	464	512	466	515	469	515	469	
iii.	Align .deviation	6	11	7	11	6	1	5	1	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			36674,36672,37072,37114		37060,37100,37085,37059		KONI	
	iv.	Secondary damper			0301,0040		0498,0242		SV	
	v.	Lateral Damper			0472		0498		SV	
	vi.	Brake cylinder & Caliper							-----	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							GMT,SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON, SARITA	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA,MGN	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA, EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	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.	7008	DISPATCH DATE				19/08/17
2.	Railway	NR	Type	LWLRRM	Coach No.		173857
3.	Booked to			SSE/C&W/NDLS			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
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		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIO-TOILET			RAIL FAB		
	iv.	SEATS/S&B			AAR KAY		
	v.	BODY SIDE DOOR			JVR		
	vi.	VESTIBULE SLIDING DOOR			KALSI		
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/KALSI		
	viii.	WATER TANKS			RAIL FAB,RAIL TECH		
	ix	FUEL TANK			GAURAV ASSOCIATES		
	x	UIC VESTIBULE			SSIPL		
	XI	FLOOR BOARD			NARBADA		
	XII	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			
			7008	NR	LWLRRM	173857	29-03-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176288				176286			
	ii.	Frame No.	FIAT-5510				FIAT-5589			
	iii.	Bolster No.	6776-P				6817-P			
	iv.	Axle No.	S-1760		S-1992		N-0920		K-6045	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00031/6 138	00159/6 139	00083/6 136	00051/6 138	00023/6 217	00130/6 188	00023/6 196	00119/619 4
	viii.	R.B. Nos.	63124	87287	77762	87754	77672	77078	63096	99779
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
	Description	Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-088	G-15-10-185	G-15-9-012	G-15-10-142	RSK-16-9-807	G-15-10-227	RSK-16-9-492	G-15-10-140	
ii.	Ht. at test load	512	467	512	466	515	469	513	470	
iii.	Align .deviation	9	11	9	10	2	6	2	3	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK	
	ii.	Primary inner Spring			L&S-15-11		L&S-15-11		L&S	
	iii.	Primary Damper			37304,37251,37200,37289		37268,37276,37013,37261		KONI	
	iv.	Secondary damper			0747,0739		0186,0760		SV	
	v.	Lateral Damper			0272		443		SV	
	vi.	Brake cylinder & Caliper							-----	
	vii.	Brake Disc							FTI,KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA, AWF	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWLRRM-7008