



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7038	DISPATCH DATE			21.08.2017	
2.	Railway	ER	Type	LWACCN	Coach No.	17136	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	CBC Height	Specified : 1105 +0 /-15 mm		1104	1104		
v)	CBC (Make)	SANROK					
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		3.80 ± 0.15 Kg/cm ²	3.80	
			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	88/89	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		FAVELLY/KBI				
ii.	BIO TOILET		RAIL FAB				
iii.	SEATS/ BERTHS		OVPL				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		KALSI				
vi.	COMPARTMENT DOOR		HANSPAL				
vii.	WATER TANKS		RAIL TECH/SHIVALIK/AMIT				
viii.	UIC VESTIBULE		ESCORT				
ix	FLOOR BOARD		NARMADA				
X	PVC		RESPONSIVE				
10.1	Modification / Trail (if any):		NIL				
10.2	Deviations if any:		NIL				



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			7038	ER	LWACCN	17136	25-02-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176169			176170				
	ii.	Frame No.	SCI/FM-812			SCI/FM-811				
	iii.	Bolster No.	6674-P			6683-P				
	iv.	Axle No.	S-9791		S-9703		N-0882		S-9273	
	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.	916.50	916.00	916.00	916.00	916.50	916.00	916.00	916.00
	vii.	Wheel Disc No.	00181/6107	00061/6069	00108/6203	00035/6198	00110/6203	00164/7321	00100/6107	00166/6069
	viii.	R.B. Nos.	79109	77781	79659	77135	77136	77601	77699	78822
	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-15-9-412	GBD-16-12-1	G-15-9-385	GBD-16-12-9	G-15-9-341	GBD-16-12-24	G-15-9-405	GBD-16-12-38	
ii.	Ht. at test load	514	468	515	466	510	468	511	468	
iii.	Align .deviation	16	12	12	10	20	10	17	10	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK	
	ii.	Primary inner Spring			FSK-16-11		FSK-16-11		FSK	
	iii.	Primary Damper			37123,36649,36848,36927		36874,36081,36543,36582		KONI	
	iv.	Secondary damper			0229,0272		0285,0165		SV	
	v.	Lateral Damper			0518		0866		SV	
	vi.	Brake cylinder & Caliper			4884/691,4741/691 4797/691,4747/691		4883/691,4783/691 4794/691,4748/691		KBI	
	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							EMSON	
	xv.	Traction lever make							SARITA	
	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							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	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.	6116	DISPATCH DATE				08.08.2017
2.	Railway	ER	Type	LWACCN	Coach No.	17139	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	CBC Height	Specified : 1105 +0 /-15 mm		1105	1105	
	v)	CBC (Make)	ESCORT				
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		3.80 ± 0.15 Kg/cm ²	3.80	
			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	89/90		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				FAVELLY	
	ii.	BIO TOILET				MK	
	iii.	SEATS/ BERTHS				OVPL	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				HANSPAL	
	vi.	COMPARTMENT DOOR				JR	
	vii.	WATER TANKS				SHIVALIK/AMIT	
	viii.	UIC VESTIBULE				ESCORT	
	ix	FLOOR BOARD				NARMADA	
	X	PVC				RESPONSIVE	
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6116	ER	LWACCN	17139	07-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176317			176318				
	ii.	Frame No.	FIAT-5593			FIAT-5522				
	iii.	Bolster No.	6797-P			6799-P				
	iv.	Axle No.	P-9588		W-2955		K-5819		S-9949	
	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	915.50	915.00	916.00	916.00
	vii.	Wheel Disc No.	00156/72 51	00024/62 04	00125/725 0	00151/72 51	00016/60 70	00120/61 07	00096/72 50	00102/724 7
	viii.	R.B. Nos.	77950	77952	79089	77580	79083	77563	78965	79264
	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.	RSK-16-48310-	RSK-16-5-1330	RSK-16-10-711	RSK-16-5-1397	RSK-16-10-782	RSK-16-5-1350	RSK-16-9-438	RSK-16-5-1090	
ii.	Ht. at test load	515	468	515	466	515	468	515	467	
iii.	Align .deviation	8	25	7	25	6	23	5	22	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			GBD-16-12		GBD-16-12		GBD	
	ii.	Primary inner Spring			GBD-16-08		GBD-16-08		GBD	
	iii.	Primary Damper			34229,34243,34246,34070		33902,34231,34189,33699		KONI	
	iv.	Secondary damper			1407,1364		1468,498		GEREP	
	v.	Lateral Damper			0083		0148		SV	
	vi.	Brake cylinder & Caliper			K16197/600,K16184/600 K16199/600,K16180/600		G16139/600,G16133/600 G16136/600,G16135/600		FTI	
	vii.	Brake Disc							KBI	
	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							EMSON, SARITA	
	xv.	Traction lever make							SARITA, EMSON	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							SGA,MGN	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							RNG	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				