



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6061	DISPATCH DATE			06.03.2017	
2.	Railway	ER	Type	LWLRRM	Coach No.	16862	
3.	Booked to	SSE/C&W/LILUAH					
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)	ESCORTS	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	APEX	85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		KBI			
	iii.	CDTS		RAIL TECH			
	iv.	SEATS/S&B		AAR KAY FOAMS			
	v.	BODY SIDE DOOR		JVR			
	vi.	VESTIBULE SLIDING DOOR		KALSI			
	vii.	CREW-GEN & GUARD ROOM DOOR		JBM/CONCEPT			
	viii.	WATER TANKS		MANOJ			
	ix	FUEL TANK		OMAX			
	x	UIC VESTIBULE		ESCORTS			
	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			
			6061	ER	LWLRRM	16862	11-02-2017			
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)				LPC-II NPP Side (Non Guard)			
	i.	Bogie No.	176123				176124			
	ii.	Frame No.	FIAT-5380				FIAT-5293			
	iii.	Bolster No.	6650-GT				6639-P			
	iv.	Axle No.	N-5854		N-0851		N-6640		N-6156	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00
	vi.	Wheel Disc No.	00071-7301	00162-6129	00105-6044	00132-6044	00163-6014	00052-6107	00161-6129	00114-6070
	vii.	R.B. Nos.	87003	84033	76068	87392	94565	93376	77110	78235
	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.	GBD-16-11-17	GBD-16-6-65	GBD-16-11-23	GBD-16-6-79	G-15-10-314	G-15-10-167	G-15-10-398	G-15-10-184	
ii.	Ht. at test load	511	466	510	465	512	469	511	469	
iii.	Align .deviation	12	12	11	10	24	7	22	6	
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			35811,36777,37069,		37186,36952,37062,36853		KONI	
	iv.	Secondary damper			0362,0755		0026,0581		SV	
	v.	Lateral Damper			0060		0069		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			5192/261,L0357/260 5193/261,L0355/260		5195/261,5046/261 5194/261,5048/261		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							AWF	
	xiii.	Ball joint traction lever							MGN	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAK	
	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.	6064	DISPATCH DATE				31.03.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	16865	
3.	Booked to	SSE/C&W/LILUAH					
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)	ESCORTS	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 TECH		
iv.	SEATS/S&B				AMIR CHAND		
v.	BODY SIDE DOOR				JVR		
vi.	VESTIBULE SLIDING DOOR				HANSPAL		
vii.	CREW-GEN & GUARD ROOM DOOR				JBM/CONCEPT		
viii.	WATER TANKS				AMIT & MANOJ		
ix	FUEL TANK				SHIVALIK		
x	UIC VESTIBULE				ESCORTS		
XI	FLOOR BOARD				NARBADA		
XII	PVC				RESPONSIVE		
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			
			6064	ER	LWLRRM	16865	01-03-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176177				176182			
	ii.	Frame No.	FIAT-5495				ECBT-11			
	iii.	Bolster No.	6672-P				6662-P			
	iv.	Axle No.	R-2804		N-0708		S-9805		S-9400	
	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	916.00	916.00	916.00	916.00
	vii.	Wheel Disc No.	00045/61 77	00120/61 10	00170/61 77	00089/60 69	00137/60 44	00165/60 48	00008/62 17	00739/7321
	viii.	R.B. Nos.	78991	84025	24403	97114	24370	24409	77780	77194
	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-15-9-004	G-15-10-169	G-15-9-030	G-15-10-130	G-15-9-407	G-15-10-229	G-15-9-409	G-15-10-169	
ii.	Ht. at test load	511	467	511	465	511	470	513	470	
iii.	Align .deviation	7	13	6	13	16	3	16	3	
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-16-07		FSK	
	iii.	Primary Damper			36065,36119,36061,36574		35370,36570,35500,36046		KONI	
	iv.	Secondary damper			0008,0390		0166,0011		SV	
	v.	Lateral Damper			0335		0547		SV	
	vi.	Brake cylinder & Caliper			5211/261,L2139/260 5378/261,L2142/260		5322/261,5212/261 5213/261,5410/261		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							EMSON, 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.	6069	DISPATCH DATE			31.03.2017	
2.	Railway	ER	Type	LWLRRM	Coach No.	16866	
3.	Booked to	SSE/C&W/LILUAH					
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)	ESCORTS	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		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		KBI			
	iii.	CDTS		RAIL TECH			
	iv.	SEATS/S&B		AAR KAY FOAMS			
	v.	BODY SIDE DOOR		JVR			
	vi.	VESTIBULE SLIDING DOOR		HANSPAL			
	vii.	CREW-GEN & GUARD ROOM DOOR		JBM/CONCEPT			
	viii.	WATER TANKS		RAIL TECH & SHIVALIK			
	ix	FUEL TANK		SHIVALIK			
	x	UIC VESTIBULE		KRP			
	XI	FLOOR BOARD		TWPL			
	XII	PVC		RESPONSIVE			
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			
			6069	ER	LWLRRM	16866	21-02-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176155				176156			
	ii.	Frame No.	FIAT-5492				FIAT-5499			
	iii.	Bolster No.	6624-P				6511-P			
	iv.	Axle No.	S-9416		T-0042		N-0289		S-9905	
	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.	00065/60 44	00019/60 48	00152/61 76	00083/60 48	00016/60 44	00174/61 10	00074/60 48	00127/6048
	viii.	R.B. Nos.	78533	76815	76646	87840	86613	76355	76681	87839
	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-15-9-079	G-15-10-223	G-15-9-094	G-15-10-186	G-15-9-331	G-15-10-127	G-15-9-395	G-15-10-143	
ii.	Ht. at test load	510	466	508	466	513	470	513	468	
iii.	Align .deviation	10	8	10	8	13	4	11	4	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			GBD-16-8		GBD-16-8		GBD	
	ii.	Primary inner Spring			FSK-16-11		FSK-16-11		FSK	
	iii.	Primary Damper			33415,33460,33405,33216		33169,33265,33490,33226		KONI	
	iv.	Secondary damper			455,440		340,443		SV	
	v.	Lateral Damper			542		0572		SV	
	vi.	Brake cylinder & Caliper			5376/261,L2140/260 5375/261,L2141/260		5359/261,5220/261 5351/261,5203/261		KBI	
	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							SARITA, EMSON	
	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							EMSON	
	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.	6070	DISPATCH DATE				31.03.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	16861	
3.	Booked to	SSE/C&W/LILUAH					
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)	ESCORTS	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	KBI				
	iii.	CDTS	RAIL TECH				
	iv.	SEATS/S&B	AAR KAY FOAMS				
	v.	BODY SIDE DOOR	JVR				
	vi.	VESTIBULE SLIDING DOOR	HP				
	vii.	CREW-GEN & GUARD ROOM DOOR	JBM/CP				
	viii.	WATER TANKS	AMIT & SHIVALIK				
	ix	FUEL TANK	SHIVALIK				
	x	UIC VESTIBULE	KRP				
	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			
			6070	ER	LWLRRM	16861	28-02-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176180				176181			
	ii.	Frame No.	FIAT-5531				FIAT-5180			
	iii.	Bolster No.	6667-P				6686-P			
	iv.	Axle No.	S-2983		S-9898		S-1803		S-9380	
	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	916.00	916.00	916.00	916.00
	vii.	Wheel Disc No.	00163/6044	00147/6106	00010/6045	00049/6044	00066/6070	00181/6105	00036/6198	00114/6198
	viii.	R.B. Nos.	77470	77093	24390	25212	85768	87851	86963	25160
	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-15-9-084	G-15-10-124	G-15-9-096	G-15-10-156	G-15-9-388	G-15-10-221	G-15-9-387	G-15-10-237	
ii.	Ht. at test load	511	465	511	464	512	471	512	469	
iii.	Align .deviation	9	13	6	11	17	2	15	1	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK	
	ii.	Primary inner Spring			FSK-15-12		FSK-15-12		FSK	
	iii.	Primary Damper			36072,36622,16112,36067		36499,36401,36049,36563		KONI	
	iv.	Secondary damper			002,003		0016,0038		SV	
	v.	Lateral Damper			0357		0431		SV	
	vi.	Brake cylinder & Caliper			5386/261,2135/260 5385/261,2137/260		5383/261,5214/261 5384/261,5215/261		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							SARITA	
	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							EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA, 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.	6066	DISPATCH DATE			11.03.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	16864
3.	Booked to	SSE/C&W/LILUAH				
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)	ESCORTS	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	APEX	86	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT			KBI	
	iii.	CDTS			RAIL TECH	
	iv.	SEATS/S&B			AAR KAY FOAMS	
	v.	BODY SIDE DOOR			SUKATA	
	vi.	VESTIBULE SLIDING DOOR			HP	
	vii.	CREW-GEN & GUARD ROOM DOOR			JBM/CP	
	viii.	WATER TANKS			RAIL TECH & SHIVALIK	
	ix	FUEL TANK			SHIVALIK	
	x	UIC VESTIBULE			ESCORTS	
	XI	FLOOR BOARD			TWPL	
	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			
			6066	ER	LWLRRM	16864/C	17-02-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176143				176144			
	ii.	Frame No.	FIAT-5498				FIAT-5470			
	iii.	Bolster No.	6684-P				6636-P			
	iv.	Axle No.	S-9625		N-0832		R-3467		S-9326	
	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.	00059-6108	00112-6134	00173-6105	00133-6048	0052-6108	00179-6070	0077-6070	0039-6105
	viii.	R.B. Nos.	85788	71147	77705	77510	97220	77499	76792	77505
	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.	GBD-16-11-08	GBD-16-06-081	GBD-16-11-066	GBD-16-06-142	G-15-9-361	G-15-10-137	G-15-9-337	G-15-10-206	
ii.	Ht. at test load	510	467	510	465	512	467	511	470	
iii.	Align .deviation	7	6	10	9	14	5	17	7	
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			36725,36818,37172,37089		37036,37174,37247,36876		KONI	
	iv.	Secondary damper			0782,0750		0555,0346		SV	
	v.	Lateral Damper			0541		0516		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			5181/261,L0359/260 5183/261,K7059/260		5182/261,5044/261 5184/261,5042/261		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							EMSON, SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAК	
	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.	6065	DISPATCH DATE			09.03.2017	
2.	Railway	ER	Type	LWLRRM	Coach No.	16863	
3.	Booked to	SSE/C&W/LILUAH					
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)		ESCORTS		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		APEX	85	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT			KBI			
iii.	CDTS			RAIL TECH			
iv.	SEATS/S&B			AAR KAY FOAMS			
v.	BODY SIDE DOOR			SUKATA			
vi.	VESTIBULE SLIDING DOOR			KALSI			
vii.	CREW-GEN & GUARD ROOM DOOR			JBM/CONCEPT			
viii.	WATER TANKS			AMIT, SHIVALIK			
ix	FUEL TANK			SHIVALIK			
x	UIC VESTIBULE			ESCORTS			
XI	FLOOR BOARD			TWPL			
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	
			6065		ER		LWLRRM		16863		16-02-2017	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non Guard)				
	i.	Bogie No.	176140					176139				
	ii.	Frame No.	FIAT-5512					FIAT-5484				
	iii.	Bolster No.	6625-P					6660-GT				
	iv.	Axle No.	R-9298		N-6708			R-3372		S-9849		
	v.	Wheel Dia.	917.00	917.00	918.00	918.00	916.00	916.00	917.50	917.50		
	vi.	Wheel Disc No.	00070-6070	00195-6105	00733-6QJ9	05233-6QH6	00095-6011	00085-6179	00134-6108	00152-6067		
	vii.	R.B. Nos.	78952	77949	80086	88360	78951	75841	79835	97225		
	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.	GBD-16-11-034	GBD-16-06-057	GBD-16-11-021	GBD-16-06-076	G-15-09-382	G-15-10-177	G-15-09-383	G-15-10-182			
ii.	Ht. at test load	510	466	512	468	513	469	511	469			
iii.	Align .deviation	6	10	10	10	15	6	16	6			
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			37153,37038,37161,36812		37168,37139,37105,37067		KONI			
	iv.	Secondary damper			0609,0483		0364,0709		SV			
	v.	Lateral Damper			0512		0067		SV			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			5190/261,L0361/260 5188/261,L0362/260		5191/261,5043/261 5189/261,5041/261		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							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.	6057	DISPATCH DATE			18.03.2017	
2.	Railway	ER	Type	LWLRRM	Coach No.	16856	
3.	Booked to	SSE/C&W/LILUAH					
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)	ESCORTS	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	APEX	85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT		KBI			
	iii.	CDTS		RAIL TECH			
	iv.	SEATS/S&B		AAR KAY FOAMS			
	v.	BODY SIDE DOOR		JVR			
	vi.	VESTIBULE SLIDING DOOR		HP			
	vii.	CREW-GEN & GUARD ROOM DOOR		JBM/CP			
	viii.	WATER TANKS		RAIL TECH & SHIVALIK			
	ix	FUEL TANK		SHIVALIK			
	x	UIC VESTIBULE		ESCORTS			
	XI	FLOOR BOARD		TWPL			
	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			
			6057	ER	LWLRRM	16856/C	18-02-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176147				176148			
	ii.	Frame No.	FIAT-5486				FIAT-5513			
	iii.	Bolster No.	6631-P				6633-P			
	iv.	Axle No.	R-3021		N-0279		N-6582		S-9473	
	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.	918.00	918.00	918.00	918.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00181/6204	00021/6224	00097/6204	00047/6219	00025/6188	00036/6188	0003/6212	00071/6180
	viii.	R.B. Nos.	78784	76412	78888	76133	5390	5216	5389	5213
	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-15-9-075	GBD-16-6-070	G-15-9-104	GBD-16-6-072	G-15-9-397	G-15-10-172	G-15-9-339	G-15-10-194	
ii.	Ht. at test load	509	464	509	465	510	469	512	470	
iii.	Align .deviation	6	7	8	9	16	4	18	6	
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			37243,37204,36729,36707		37245,36706,37156,36692		KONI	
	iv.	Secondary damper			0326,0479		0345,0181		SV	
	v.	Lateral Damper			0575		0522		SV	
	vi.	Brake cylinder & Caliper			5388/261,L2127/260 5387/261,L2126/260		5390/261,5216/261 5389/261,5213/261		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,SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							EMSON	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				