



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6018	DISPATCH DATE				29.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	16033		
3.	Booked to			SSE/C&W/LILUAH				
4.	Tare Weight of Coach			43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL	
6.	Shell Details: WA900001							
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	1098		
v)	Buffer/CBC (Make)		ESCORTS		Fiba Device	NIL		
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.	CDTS/ BIO TOILET			RAIL TECH, JSL				
iii.	SEATS/ BERTHS			AAR KAY FOAMS				
iv.	BODY SIDE DOOR			JVR				
v.	VESTIBULE SLIDING DOOR			HP				
vi.	SALOON DOOR			KALSI				
vii.	WATER TANKS			AMIT, RAIL TECH, SHIVALIK				
viii.	UIC VESTIBULE			ESCORTS				
ix	FLOOR BOARD			NARBADA				
x	PVC FLOORING			RESPONSIVE				
10.								
i	Modification / Trail (if any):					NIL		
ii	Deviations if any:					NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6018		ER		LFCWAC		16033		13-12-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	167102					167103				
	ii.	Frame No.	FIAT-5328					FIAT-5317				
	iii.	Bolster No.	6417-GT					6425-GT				
	iv.	Axle No.	R-2636		R-3547			P-9709		R-3293		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00027-6132	00081-6067	00084-6176	00149-6139	00161-6136	00170-6068	00189-6132	00173-6067		
	vii.	R.B. Nos.	61752	61698	62400	63005	62733	62715	62703	63131		
	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.	RSK-16-5-433	RSK-16-5-984	RSK-16-5-771	RSK-16-5-753	RSK-16-5-834	RSK-16-5-132	RSK-16-5-927	RSK-16-5-898			
ii.	Ht. at test load	511	466	511	465	512	466	511	468			
iii.	Align .deviation	13	22	14	26	9	27	10	30			
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			RSK-16-3			RSK-16-3			RSK	
	iii.	Primary Damper			487,221,215,345			119,73,510,266			GEREP	
	iv.	Secondary damper			297,625			635,0552			SV	
	v.	Lateral Damper			371			592			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3375/691,3586/691 3576/691,3587/691			3597/691,3585/691 3598/691,3589/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA, AWF	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									SGA	
	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.	6017	DISPATCH DATE				29.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	16031		
3.	Booked to			SSE/C&W/LILUAH				
4.	Tare Weight of Coach			43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL	
6.	Shell Details: WA900001							
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	NIL		
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			FAIVELEY				
ii.	CDTS/ BIO TOILET			RAIL TECH, JSL				
iii.	SEATS/ BERTHS			AAR KAY FOAMS				
iv.	BODY SIDE DOOR			JVR				
v.	VESTIBULE SLIDING DOOR			HP				
vi.	SALOON DOOR			KALSI				
vii.	WATER TANKS			AMIT, SHIVALIK				
viii.	UIC VESTIBULE			KRP				
ix	FLOOR BOARD			NARBADA				
x	PVC FLOORING			RESPONSIVE				
10.								
i	Modification / Trail (if any):					NIL		
ii	Deviations if any:					NIL		



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6017	ER	LFCWAC	16031	28-01-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	176085				176086			
	ii.	Frame No.	FIAT-5394				SCI/FM-755			
	iii.	Bolster No.	6587-GT				6613-P			
	iv.	Axle No.	N-6100		N-6954		N-0885		S-9178	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	00102-6217	00100-6217	00101-6217	00174-6217	00040-6203	00118-6204	00017-6217	00099-6217
	vii.	R.B. Nos.	34096	35650	06671	35039	34214	34882	06660	35344
	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.	AFJ-16-9-39	RSK-16-5-1261	AFJ-16-9-38	RSK-16-5-1302	AFJ-16-9-37	RSK-16-5-961	AFJ-16-9-59	RSK-16-5-1347	
ii.	Ht. at test load	511	468	509	468	512	466	512	468	
iii.	Align .deviation	15	29	16	30	19	29	20	31	
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-12-6		G-12-6		GF	
	iii.	Primary Damper			36399,36147,36141,36132		36403,36139,36171,36583		KONI	
	iv.	Secondary damper			0359,0400		0375,0328		SV	
	v.	Lateral Damper			0113		0096		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			M16392/600,N16065/600 M16394/600,N16062/600		M16340/600,N16077/600 M16342/600,N16091/600		FTI	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							AWF, SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							EMSON, 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.	6015	DISPATCH DATE				30.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	16030		
3.	Booked to			SSE/C&W/LILUAH				
4.	Tare Weight of Coach			43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL	
6.	Shell Details: WA900001							
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	NIL		
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			FAIVELEY				
ii.	CDTS/ BIO TOILET			RAIL TECH, JSL				
iii.	SEATS/ BERTHS			OVPL				
iv.	BODY SIDE DOOR			JVR, SUKATA				
v.	VESTIBULE SLIDING DOOR			HP				
vi.	SALOON DOOR			KALSI				
vii.	WATER TANKS			AMIT, SHIVALIK				
viii.	UIC VESTIBULE			SSIPL				
ix	FLOOR BOARD			TWPL				
x	PVC FLOORING			RESPONSIVE				
10.								
i	Modification / Trail (if any):					NIL		
ii	Deviations if any:					NIL		



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6015	ER	LFCWAC	16030	30-01-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	176083				176084			
	ii.	Frame No.	SCI/FM-776				SCI/FM-781			
	iii.	Bolster No.	6582-GT				6589-GT			
	iv.	Axle No.	N-6280		R-2737		K-3823		F-9598	
	v.	Wheel Dia.	916.50	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	06231-6QG2	01557-6QH2	00054-6107	00144-6106	00105-6067	00084-6067	00127-6196	00130-6196
	vii.	R.B. Nos.	06634	06722	05263	06750	86953	85272	35026	34913
	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.	AFJ-16-9-13	FSK-16-11-47	AFJ-16-9-34	FSK-16-11-65	AFJ-16-9-40	FSK-16-11-11	AFJ-16-9-33	FSK-16-11-74	
ii.	Ht. at test load	508	468	507	466.50	512	465.50	512	466.50	
iii.	Align .deviation	20	8	20	8	20	8	20	7	
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			RSK-16-03		RSK-16-03		RSK	
	iii.	Primary Damper			36187,36431,36553,36496		36485,36550,36007,36038		KONI	
	iv.	Secondary damper			379,371		0358,0357		SV	
	v.	Lateral Damper			0059		0082		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			M16318/600,M16353/600 M16317/600,M16319/600		K16021/600,K16054/600 F16015/600,K16057/600		FTI	
	viii.	Brake Disc							KBI,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							SGA	
	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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6024	DISPATCH DATE			30.06.2017		
2.	Railway	ER	Type	LFCWAC	Coach No.	16034		
3.	Booked to		SSE/C&W/LILUAH					
4.	Tare Weight of Coach		43.6 T					
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL	
6.	Shell Details: WA900001							
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)		FAIVELEY		Fiba Device	NIL		
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.	CDTS/ BIO TOILET					RAIL TECH, JSL		
iii.	SEATS/ BERTHS					AAR KAY FOAMS		
iv.	BODY SIDE DOOR					JBM		
v.	VESTIBULE SLIDING DOOR					HANSPAL		
vi.	SALOON DOOR					KALSI		
vii.	WATER TANKS					AMIT, SHIVALIK		
viii.	UIC VESTIBULE					ESCORTS		
ix	FLOOR BOARD					TWPL		
x	PVC FLOORING					RESPONSIVE		
10.								
i	Modification / Trail (if any):			NIL				
ii	Deviations if any:			NIL				



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date				
			6024	ER	LFCWAC	16034	18-03-2017				
11.1	Wheel & Axle Details:										
	i.	Bogie No.	176217			176218					
	ii.	Frame No.	SCI/FM-722			SCI/FM-724					
	iii.	Bolster No.	6698-P			6593-GT					
	iv.	Axle No.	N-0893		N-0477		R-3051		S-3509		
	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	916.50	916.50	916.50	
	vii.	Wheel Disc No.	00131/6212	00089/6202	00168/6215	00003/6219	00158/6202	00073/6187	00104/6188	00195/6180	
	viii.	R.B. Nos.	77310	94051	86124	77307	62071	78838	77461	76010	
	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-16-6-503	GBD-16-10-208	RSK-16-6-571	GBD-16-10-194	RSK-16-6-528	GBD-16-10-173	RSK-16-6-396	GBD-16-10-181		
ii.	Ht. at test load	511	468	511	468	510	468	511	468		
iii.	Align .deviation	17	9	21	10	11	7	14	7		
11.3	Items traceability:										
	Sno.	Item						Make			
	i.	Primary Outer Spring			GBD-16-12		GBD-16-12		GBD		
	ii.	Primary inner Spring			G-12-6		G-12-6		GF		
	iii.	Primary Damper			35718,35715,35711,35887		35811,35903,35823,35907		KONI		
	iv.	Secondary damper			0131,0154		0013,0366		SV		
	v.	Lateral Damper			0495		0570		SV		
	vi.	Brake cylinder & Caliper			K16162/600,K16202/600 K16001/600,K16044/600		M16305/600,M16339/600 M16310/600,M16340/600		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							TECSPAK		
	xix.	Rubber spring							GMT		
	xx.	Anti roll bar make							SARITA		
	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.	6014	DISPATCH DATE			30.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	16032	
3.	Booked to		SSE/C&W/LILUAH				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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	NIL	
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	87/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAIVELEY		
ii.	CDTS/ BIO TOILET				RAIL TECH, JSL		
iii.	SEATS/ BERTHS				AAR KAY FOAMS		
iv.	BODY SIDE DOOR				JVR		
v.	VESTIBULE SLIDING DOOR				HP		
vi.	SALOON DOOR				KALSI		
vii.	WATER TANKS				AMIT, SHIVALIK		
viii.	UIC VESTIBULE				ESCORTS		
ix	FLOOR BOARD				TWPL		
x	PVC FLOORING				RESPONSIVE		
10.							
i	Modification / Trail (if any):		NIL				
ii	Deviations if any:		NIL				



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6014		ER		LFCWAC		16032		29-12-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	167144						167145			
	ii.	Frame No.	SCI/FM-753						SCI/FM-746			
	iii.	Bolster No.	6485-P						6468-P			
	iv.	Axle No.	R-3617			P-9669			N-5939		R-3443	
	v.	Wheel Dia.	915.00	915.50	917.00	917.00	917.00	917.00	916.00	916.00		
	vi.	Wheel Disc No.	00044-6103	00011-6103	00092-6133	00049-6133	00122-6133	00171-6134	00163-6047	00191-6129		
	vii.	R.B. Nos.	83817	94652	94712	94809	94647	94720	97523	81693		
	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.	AFJ-16-9-81	RSK-16-4-811	AFJ-16-9-10	RSK-16-4-1058	AFJ-16-9-3	RSK-16-4-1063	AFJ-16-9-9	RSK-16-4-1168			
ii.	Ht. at test load	511	468	510	468	512	468	511	465			
iii.	Align .deviation	17	33	20	39	20	46	20	44			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-16-11			FSK-16-11			FSK	
	ii.	Primary inner Spring			G-12-6			G-12-6			GF	
	iii.	Primary Damper			375,424,427,379			378,456,458,423			GABRIEL	
	iv.	Secondary damper			0642,0763			0724,0499			SV	
	v.	Lateral Damper			0030			0036			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G16049/600,G16127/600 G16129/600,G16016/600			K16056/600,K16064/600 K16126/600,K16046/600			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	
	xiv.	Traction centre elastic									SGA	
	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				

LFCWAC -6014



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6019	DISPATCH DATE			30.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	17026	
3.	Booked to			SSE/C&W/LILUAH			
4.	Tare Weight of Coach			43.6 T			
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL
6.	Shell Details: WA900001						
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	NIL	
7.	Air Brake Testing:			Description		Specified	
7.1	Full Brake Application			Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 –10 sec	
				Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	
				All Brake are applied		OK	
7.2	Insensitivity			Exhaust BP @ 0.3 kg/cm ² /min		No brake application	
7.3	Sensitivity			Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	
8.	PAINTING DEATAILS:			TYPE OF PAINT		MAKE	
8.1	PAINT			PU PAINT		VIBGYOR	
8.2	APPLICATION OF PCN-123			SATISFACTORY			
8.3	INSUALTION			SATISFACTORY			
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
ii.	CDTS/ BIO TOILET			RAIL TECH, JSL			
iii.	SEATS/ BERTHS			AAR KAY FOAMS			
iv.	BODY SIDE DOOR			JVR, JBM			
v.	VESTIBULE SLIDING DOOR			HANSPAL			
vi.	SALOON DOOR			KALSI			
vii.	WATER TANKS			AMIT, SHIVALIK			
viii.	UIC VESTIBULE			SSIPL			
ix	FLOOR BOARD			TWPL			
x	PVC FLOORING			RESPONSIVE			
10.							
i	Modification / Trail (if any):					NIL	
ii	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6019	ER	LFCWAC	17026	21-04-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176366			176367				
	ii.	Frame No.	FIAT-5432			FIAT-5545				
	iii.	Bolster No.	6839-GT			6853-GT				
	iv.	Axle No.	W-3422		N-5932		S-9491		S-3132	
	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	916.50	916.00	916.00	917.00	917.00	916.50	917.00
	vii.	Wheel Disc No.	00165/6192	00166/6192	00119/6201	00010/6183	00032/7321	00141/6223	00008/13353	00172/13353
	viii.	R.B. Nos.	81300	80736	83692	83773	72795	76381	79821	73132
	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.	FSK-17-2-43	GBD-16-10-258	FSK-17-2-86	GBD-16-10-31	FSK-17-2-31	GBD-16-10-10	FSK-17-2-83	GBD-16-10-74	
ii.	Ht. at test load	510	468	508	467	508	467	507	466	
iii.	Align .deviation	10	10	12	12	10	6	9	6	
11.3	Items traceability:									
	Sno.	Item					Make			
	i.	Primary Outer Spring		FSK-17-1		FSK-17-1		FSK		
	ii.	Primary inner Spring		G-12-5		G-12-6		GF		
	iii.	Primary Damper		37622,35664,37595,37775		37645,35613,35720,35381		KONI		
	iv.	Secondary damper		0392,0665		0771,0722		SV		
	v.	Lateral Damper		0181		0176		SV		
	vi.	Brake cylinder & Caliper		H16234/600,H16308/600 K16031/600,H16309/600		F16270/600,F16248/600 F16271/600,F16243/600		FTI		
	vii.	Brake Disc						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		
	xvi.	Ball joint traction lever						MGN		
	xvii.	Traction centre elastic						GMT		
	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				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6022	DISPATCH DATE				29.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	17028		
3.	Booked to			SSE/C&W/LILUAH				
4.	Tare Weight of Coach			43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage	NIL	
6.	Shell Details: WA900001							
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		1098	1095		
v)	Buffer/CBC (Make)		ESCORTS		Fiba Device	NIL		
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	87/89	
8.2	APPLICATION OF PCN-123			SATISFACTORY				
8.3	INSUALTION			SATISFACTORY				
9.	Traceability of Furnishing Items:			Make				
i.	BRAKE EQUIPMENT			KBI				
ii.	CDTS/ BIO TOILET			RAIL TECH, JSL				
iii.	SEATS/ BERTHS			AAR KAY FOAMS				
iv.	BODY SIDE DOOR			JBM				
v.	VESTIBULE SLIDING DOOR			HP				
vi.	SALOON DOOR			KALSI				
vii.	WATER TANKS			AMIT, SHIVALIK				
viii.	UIC VESTIBULE			ESCORTS				
ix	FLOOR BOARD			NARBADA				
x	PVC FLOORING			RESPONSIVE				
10.								
i	Modification / Trail (if any):			NIL				
ii	Deviations if any:			NIL				



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RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176436437

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.	Dispatch Date		
		6022	ER		LFCWAC	17028/C	29-JUN-17		
11.1 Wheel & Axle Details:									
i.	Bogie No.	176436				176437			
ii.	Frame No.	FIAT-5485				FIAT-5624			
iii.	Bolster No.	GT-6960				GT-6961			
iv.	Axle No.	R-3167		V-2000		W-3282		V-1711	
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.	00027-6223	00049-6223	00106-6187	00109-6223	00021-6109	00171-6132	00084-6226	00170-6226
viii.	RB Nos.	08553	09345	09130	08151	09432	09414	09440	09438
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	JIC 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.	FSK-17-02-5	GBD-16-12-4	FSK-17-02-75	GBD-16-12-140	FSK-17-02	GBD-16-12-6	FSK-17-02-3	GBD-16-12-27
ii.	Ht. at rest load	511.00	467.00	510.00	466.00	507.00	468.00	507.00	468.00
iii.	Align. deviation	10.00	11.00	9.00	11.00	10.00	10.00	9.00	10.00
Items traceability:									
11.3	Sno.	Item					Make		
	i.	Primary Outer Spring	FSK-17-01		FSK-17-01		FSK		
	ii.	Primary inner Spring	GF-12-6		GF-12-06		GF		
	iii.	Primary Damper	33353, 33369, 33360, 33370		33158, 33127, 33325, 33411		KONI		
	iv.	Secondary Damper	9995, 9966		10181, 9797		KONI		
	v.	Lateral Damper	0324		0387		SV		
	vi.	Break cylinder & Caliper	6343,6261, 6342,6263		6340,6262, 6341,6260		KEI		
	vii.	Break Disc					KEI FTI		
	viii.	Control arm top					KUMAR		
	ix.	Control arm bottom					KUMAR		
	x.	Top rubber Pad					SCA		
	xi.	Vertical Bump Stop					GMT		
	xii.	Ball Joint Control arm					MGN		
	xiii.	Lateral Bump stop					MGN		
	xiv.	Traction center make					EMSON		
	xv.	Traction lever make					APW		
	xvi.	Ball joint traction lever					MGN		
	xvii.	Traction center elastic					GMT		
	xviii.	Secondary rubber pad					TECSPACK		
	xix.	Rubber spring					GMT		
	xx.	Anti roll bar make					SARITA		
	xxi.	Ball joint roll link					SARITA		
	xxii.	Fork make					SARITA		
11.4	i.	Modification/Trail(if any):	NIL						
	ii.	Deviations (if any):	NIL						

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6023	DISPATCH DATE			30.06.2017	
2.	Railway	ER	Type	LFCWAC	Coach No.	17027	
3.	Booked to		SSE/C&W/LILUAH				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	38	Sleeping	38	Luggage NIL	
6.	Shell Details: WA900001						
	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	NIL		
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.	CDTS/ BIO TOILET	RAIL TECH, JSL				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HP				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	AMIT, SHIVALIK				
	viii.	UIC VESTIBULE	ESCORTS				
	ix	FLOOR BOARD	NARBADA				
	x	PVC FLOORING	RESPONSIVE				
10.							
	i	Modification / Trail (if any):				NIL	
	ii	Deviations if any:				NIL	



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RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176402403

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		6023	ER	LFCWAC	17027/C	30-JUN-17				
11.1	Wheel & Axle Details:									
i.	Bogie No.	176402			176403					
ii.	Frame No.	FIAT-5516			FIAT-5633					
iii.	Bolster No.	GT-6870			GT-6904					
iv.	Axle No.	V-2441		N-6546	T-0079		W-3057			
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	916.50	916.50	917.00	916.50	916.00	916.50	
vii.	Wheel Disc No.	00075-6219	00031-6109	00040-6067	00045-6193	00075-6215	00187-6191	00195-7259	00194-7259	
viii.	RB Nos.	03003	03256	03254	03146	03001	03288	02996	02960	
ix.	RB Make	TIMKEN			TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	JIC 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.	FSK-17-02-87	GBD-16-12-114	FSK-17-02-95	GBD-16-12-121	FSK-17-02-32	GBD-16-12-64	FSK-17-02-23	GBD-16-12-142	
ii.	Ht. at rest load	512.00	468.00	511.00	468.00	511.00	468.00	511.00	466.00	
iii.	Align. deviation	8.00	7.00	9.00	10.00	7.00	12.00	7.00	12.00	
Items traceability:										
11.3	Sno.	Item					Make			
	i.	Primary Outer Spring	FSK-17-01		FSK-17-01		FSK			
	ii.	Primary inner Spring	GF-12-6		GF-12-06		GF			
	iii.	Primary Damper	36362, 36603, 36206, 36464		36618, 36220, 36180, 36398		KONI			
	iv.	Secondary Damper	9867, 9967		9944, 9976		KONI			
	v.	Lateral Damper	0029		0394		SV			
	vi.	Break cylinder & Caliper	16212,16404, 16211,16409		16215,16288, 16238,16244		PTI			
	vii.	Break Disc					KBI			
	viii.	Control arm top					KUMAR			
	ix.	Control arm bottom					KUMAR			
	x.	Top rubber pad					SCA			
	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					AFW			
	xvi.	Ball joint traction lever					MGN			
	xvii.	Traction center elastic					GMT			
	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/Trail (if any):	NIL							
	ii.	Deviations (if any):	NIL							

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