



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6053	DISPATCH DATE				18.02.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16223	
3.	Booked to		SSE/C&W/				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	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	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i	BRAKE EQUIPMENT		KBI			
	ii	SEAT & BERTH		SAVITRY			
	iii	BODY SIDE DOORS		SUKATA			
	iv	WATER TANKS		RAIL TECH(AUX),AMIT & SHIVALIK(U/S)			
	v	FLOOR BOARD		TWPL			
	vi	PVC FLOORING		RESPONSIVE			
	vii	UIC VESTIBULE		KRP			
	viii	VESTIBULE SLIDING DOOR		HANSPAL			
	IX	BIOTOLET		RAIL FAB+JSL LIFE STYLE			
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	
			6053		ER		LWSCN		16223		27-01-2017	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	176063					176064				
	ii.	Frame No.	SCI/FM-739					SCI/FM-759				
	iii.	Bolster No.	6576-GT					6579-GT				
	iv.	Axle No.	N-6972		N-0679			R-3116		R-3581		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.50	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	00145-6204	00148-6177	00018-6177	00062-6219	00121-6193	00002-6193	00029-6106	00040-6217	00040-6217	00040-6217
	vii.	R.B. Nos.	93406	35673	94075	34911	88208	94574	93410	93296	93296	93296
	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-16-4-167	RSK-16-4-314	RSK-16-4-271	RSK-16-4-306	RSK-16-4-274	RSK-16-4-437	RSK-16-4-264	RSK-16-4-298			
ii.	Ht. at test load	514	472	515	471	516	471	516	472			
iii.	Align .deviation	5	3	7	6	8	6	11	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-16-12			FSK-16-12			FSK	
	ii.	Primary inner Spring			FSK-16-11			FSK-16-11			FSK	
	iii.	Primary Damper			36588,36559,36538,35527			35509,35506,36036,35513			KONI	
	iv.	Secondary damper			451,480			473,439			GEREP	
	v.	Lateral Damper			3798			3310			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4812/691,4797/691 4811/691,4812/691			4840/691,4713/691 4841/691,4708/691			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									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									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.	6052	DISPATCH DATE				09.02.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16221	
3.	Booked to		SSE/C&W/HWH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body		23700+10/-0 mm				
ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (LWSCZDAC)				
iii)	Max. Height From Rail Level		4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
iv)	Buffer/CBC Height		Specified : 1105 +0 /-15 mm		1105	1100	
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	86/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT				FAIVELEY		
li	SEAT & BERTH				SAVITRI		
lii	BODY SIDE DOORS				SUKATA, JBM		
lv	WATER TANKS				AMIT & SHIVALIK, MANOJ		
v	FLOOR BOARD				TWPL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				ESCORTS		
viii	VESTIBULE SLIDING DOOR				KALSI		
	BIO TOILET				RAIL FAB, JSL		
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			
			6052	ER	LSCN	16221	29-12-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	167154				167155			
	ii.	Frame No.	SCI/FM-696				SCI/FM-743			
	iii.	Bolster No.	6466-P				6383-P			
	iv.	Axle No.	P-9075		S-9619		R-3048		R-2878	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	915.50	916.00	916.00	916.00
	vi.	Wheel Disc No.	00100-6103	00093-6138	00187-6176	00057-6108	00054-6103	00127-6110	00081-6046	00155-6070
	vii.	R.B. Nos.	88138	87144	93496	94040	83802	83804	83801	83825
	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-16-4-228	RSK-15-10-946	RSK-16-4-260	RSK-15-10-952	RSK-16-4-269	RSK-15-10-491	RSK-16-4-265	RSK-15-10-490	
ii.	Ht. at test load	515	470	513	469	513	469	515	471	
iii.	Align .deviation	6	10	6	5	5	3	7	4	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			G-14-3		G-14-3		GF	
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			543,349,388,349		391,345,414,544		GABRIEL	
	iv.	Secondary damper			010,035		033,045		GABRIEL	
	v.	Lateral Damper			0079		0244		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16269/600,G16224/600 G16267/600,G16225/600		G16224/600,G16235/600 G16225/600,G16233/600		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							SARITA	
	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							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):					NIL			
	ii.	Deviations (if any):					NIL			

LSCN-6052



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6055	DISPATCH DATE				25.02.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16225	
3.	Booked to		SSE/C&W/HWH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	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	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	RAIL TECH & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	HP				
		BIO TOILET	RAIL FAB, JSL				
		PARTITION PANEL	PUNJAB LAMINATE				
10.	Modification / Trail (if any):					NIL	
	10.1	Deviations if any:				NIL	



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		6055	ER	LSCN	16225/C	20-02-2017				
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176067				176068			
	ii.	Frame No.	SCI/FM-748				SCI/FM-764			
	iii.	Bolster No.	6588-GT				6567-GT			
	iv.	Axle No.	N-6456		N-6648		P-9689		S-9235	
	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	916.00	916.00	917.00	917.00	916.00	916.00
	vii.	Wheel Disc No.	00044/6219	00053/6216	00053-6204	00012-6177	00174-6193	00191-6193	00017-6180	00175-6212
	viii.	R.B. Nos.	93418	87850	35644	85943	85843	94403	93356	86320
	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-16-06-011	RSK-16-04-297	GBD-16-06-05	RSK-16-04-676	GBD-16-06-03	RSK-16-04-722	GBD-16-06-02	RSK-16-04-724	
ii.	Ht. at test load	516	471	515	472	513	470	513	471	
iii.	Align .deviation	07	09	6	9	6	4	8	5	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			FSK-16-12		FSK-16-12		FSK	
	ii.	Primary inner Spring			FSK-16-12		FSK-16-12		FSK	
	iii.	Primary Damper			36110,36123,36154,36089		36090,36012,36083		KONI	
	iv.	Secondary damper			0514,0128		0427,007		GEREP	
	v.	Lateral Damper			0068		0531		SV	
	vi.	Brake cylinder & Caliper			4831/691,4776/691 4850/691,4725/691		4830/691,4712/691 4842/691,4717/691		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							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							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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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6051	DISPATCH DATE				25.02.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16226	
3.	Booked to	SSE/C&W/HWH					
4.	Tare Weight of Coach	41.239 T					
5.	Carrying Capacity	Seating	80	Sleeping	80	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body			23700+10/-0 mm			
ii)	Maximum width over Body			3240-8/+0 mm, 3050 mm (LWSCZDAC)			
iii)	Max. Height From Rail Level			4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)			
iv)	Buffer/CBC Height		Specified : 1105 +0 /-15 mm		1105	1105	
v)	Buffer/CBC (Make)		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	85/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i	BRAKE EQUIPMENT				FAIVELEY		
ii	SEAT & BERTH				SAVITRI		
iii	BODY SIDE DOORS				SUKATA		
iv	WATER TANKS				RAIL TECH & SHIVALIK, AMIT		
v	FLOOR BOARD				TWPL		
vi	PVC FLOORING				RESPONSIVE		
vii	UIC VESTIBULE				KRP		
viii	VESTIBULE SLIDING DOOR				HP		
	BIO TOILET				RAIL FAB, JSL		
	PARTITION PANEL				PUNJAB LAMINATE		
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			
			6051	ER	LSCN	16226/C	11-01-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	176029				176030			
	ii.	Frame No.	FIAT-5408				FIAT-5367			
	iii.	Bolster No.	6568-GT				6539-P			
	iv.	Axle No.	P-9803		R-3426		N-6266		R-3068	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00119-6067	00163-6046	00002-6070	00100-6066	00192-6218	00056-6215	00191-6218	00030-6215
	vii.	R.B. Nos.	80322	94533	98581	94548	86025	88116	87735	86739
	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-16-4-312	RSK-16-4-484	RSK-16-4-108	RSK-16-4-415	RSK-16-4-341	RSK-16-4-417	RSK-16-4-353	RSK-16-4-382	
ii.	Ht. at test load	515	471	516	469	515	472	516	467	
iii.	Align .deviation									
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			FSK-16-7		FSK-16-7		FSK	
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			371,507,511,368		527,362,451,440		GABRIEL	
	iv.	Secondary damper			409,497		120,508		GEREP	
	v.	Lateral Damper			255		004		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16064/600,G16075/600 G16060/600,G16074/600		G16015/600,G16096/600 G16071/600,G16097/600		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			



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1.	SHELL No.	6054	DISPATCH DATE				23.02.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16224	
3.	Booked to		SSE/C&W/HWH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	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	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	KBI				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA				
	iv	WATER TANKS	RAIL TECH & SHIVALIK				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	KRP				
	viii	VESTIBULE SLIDING DOOR	JBM				
		BIO TOILET	RAIL FAB, JSL				
		PARTITION PANEL	PUNJAB LAMINATE				
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	
			6054		ER		LSCN		16224/C		21-01-2017	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	176059					176060				
	ii.	Frame No.	SCI/FM-758					SCI/FM-760				
	iii.	Bolster No.	6525-P					6565-GT				
	iv.	Axle No.	N-5737		S-2998			N-6356		S-9790		
	v.	Wheel Dia.	916.00	916.00	916.50	916.00	916.50	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	00117-6218	00150-6106	00108-6218	00035-6139	00118-6179	00063-6179	00024-6218	00041-6218		
	vii.	R.B. Nos.	04013	04558	06229	05671	04522	04353	06368	03773		
	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	Outer	Inner	
i.	Make & nos.	RSK-16-4-316	RSK-16-4-479	RSK-16-4-011	RSK-16-4-328	RSK-16-4-369	RSK-16-4-313	RSK-16-4-298	RSK-16-4-683			
ii.	Ht. at test load	514	472	516	470	515	472	514	470			
iii.	Align .deviation	6	8	6	10	9	13	10	17			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			FSK-16-12			FSK-16-12			FSK	
	ii.	Primary inner Spring			FSK-16-11			FSK-16-11			FSK	
	iii.	Primary Damper			35521,35456,35496,35439			35519,35462,35465,35515			KONI	
	iv.	Secondary damper			155,138			431,174			GEREP	
	v.	Lateral Damper			292			298			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4839/691,4740/691 4819/691,4738/691			4838/691,4736/691 4037/691,4737/691			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									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									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.	6034	DISPATCH DATE				14.02.2017
2.	Railway	ER	Type	LWSCN1	Coach No.	16222	
3.	Booked to		SSE/C&W/HWH				
4.	Tare Weight of Coach		41.239 T				
5.	Carrying Capacity	Seating	80	Sleeping	80	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	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	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i	BRAKE EQUIPMENT	FAIVELEY				
	ii	SEAT & BERTH	SAVITRI				
	iii	BODY SIDE DOORS	SUKATA, JBM				
	iv	WATER TANKS	AMIT & SHIVALIK, RAIL TECH				
	v	FLOOR BOARD	TWPL				
	vi	PVC FLOORING	RESPONSIVE				
	vii	UIC VESTIBULE	ESCORTS				
	viii	VESTIBULE SLIDING DOOR	KALSI				
		BIO TOILET	RAIL FAB, JSL				
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			
			6034	ER	LSCN	16222	19-01-2017			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	176022				176024			
	ii.	Frame No.	FIAT-5142				FIAT-5284			
	iii.	Bolster No.	6534-P				6541-P			
	iv.	Axle No.	128148/984	125801/478		S-1726		R-9045		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	00185-6218	00032-6218	00183-6218	00106-6180	00065-6008	00102-6067	00162-6047	00025-6069
	vii.	R.B. Nos.	86298	85942	86290	94476	80693	87660	83140	82202
	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-16-9-150	RSK-15-10-977	RSK-16-4-300	RSK-15-10-963	RSK-16-4-318	RSK-15-10-879	RSK-16-4-074	RSK-15-10-883	
ii.	Ht. at test load	516	472	515	470	515	470	516	472	
iii.	Align .deviation	7	5	9	8	4	2	5	6	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-11		RSK-15-11		RSK	
	ii.	Primary inner Spring			RSK-16-2		RSK-16-2		RSK	
	iii.	Primary Damper			35610,36396,36456,35571		36434,36435,35583,36573		KONI	
	iv.	Secondary damper			147,413		022,510		GEREP	
	v.	Lateral Damper			0225		0149		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			G16076/600,G16275/600 G16073/600,G16273/600		G16286/600,G16212/600 G16284/600,G16213/600		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, AFW	
	xiii.	Ball joint traction lever							MGN,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.	6059	DISPATCH DATE				13.02.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	16857	
3.	Booked to	SSE/C&W/HWH					
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.	BIO TOILET			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			SHIVALIK, 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	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6059		ER		LWLRRM		16857		25-01-2017	
11.1	Wheel & Axle Details:		LPC-I PP Side(Guard)					LPC-II NPP Side (Non Guard)				
	i.	Bogie No.	176076					176075				
	ii.	Frame No.	SCI/FM-771					SCI/FM-666				
	iii.	Bolster No.	6603-GT					6386-P				
	iv.	Axle No.	S-9851		R-3332		R-3637		R-3374			
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	00119-6103	00165-6047	00021-6061	00067-6047	00132-6108	00083-6011	00135-6044	00065-6105		
	vii.	R.B. Nos.	05274	33802	06524	33930	86999	68714	87639	87780		
	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-16-11-27	GBD-16-6-62	GBD-16-11-29	GBD-16-6-67	RSK-16-10-285	RSK-16-7-181	RSK-16-10-231	RSK-16-7-190			
ii.	Ht. at test load	511	467	511	467	513	468	513	466			
iii.	Align .deviation	10	9	7	8	3	45	3	42			
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			36287,36283,36031,36025		36024,36307,36511,36542		KONI			
	iv.	Secondary damper			385,382		0378,0318		SV			
	v.	Lateral Damper			0356		362		SV			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			5361/261,K7054/260 3322/260,K5371/261		5370/261,5209/261 5369/261,5211/261		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							AWF			
	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							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.	6008	DISPATCH DATE			02.02.2017		
2.	Railway	ER	Type	LFCWAC	Coach No.	15029		
3.	Booked to			SSE/C&W/HWH				
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)		SANROK		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.	BIO TOILET			RAIL FAB, JSL				
iii.	SEATS/ BERTHS			AAR KAY FOAMS				
iv.	BODY SIDE DOOR			SUKATA				
v.	VESTIBULE SLIDING DOOR			KALSI				
vi.	SALOON DOOR			KALSI				
vii.	WATER TANKS			AMIT				
viii.	UIC VESTIBULE			ESCORTS				
ix	FLOOR BOARD			NARBADA				
x	PVC FLOORING			RESPONSIVE				
XI	PARTITION PANEL			HINDUSTAN				
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	
			6008		ER		LFCWAC		15029/C		01-12-2016	
11.1	Wheel & Axle Details:		PP Side				NPP Side					
	i.	Bogie No.	167020				167021					
	ii.	Frame No.	FM-692				FM-656					
	iii.	Bolster No.	6318-GT				6402-P					
	iv.	Axle No.	N-0296		P-9806		R-3380		P-9271			
	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.	00147-6067	00175-6048	06825-6QH7	01553-6QH2	00137-7196	00082-7196	06833-6QH4	08229-6QM4	08229-6QM4	08229-6QM4
	vii.	R.B. Nos.	93967	87264	94021	99401	88313	63004	94259	94440	94440	94440
	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	Outer	Inner
i.	Make & nos.	RSK-15-5-1103	RSK-16-5-659	RSK-15-5-1141	RSK-16-5-556	RSK-15-5-094	RSK-16-5-450	RSK-15-5-992	RSK-16-6-679	RSK-16-6-679	RSK-16-6-679	RSK-16-6-679
ii.	Ht. at test load	508	468	509	468	510	468	511	468	511	468	468
iii.	Align .deviation	18	30	18	32	14	26	16	29	16	29	29
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			RSK-14-5		RSK-15-11		RSK			
	ii.	Primary inner Spring			RSK-16-3		RSK-16-3		RSK			
	iii.	Primary Damper			485,33,713,132		297,483,500,452		GEREP			
	iv.	Secondary damper			0778,0646		0777,0790		SV			
	v.	Lateral Damper			364		339		SV			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			G16292/600,G16263/600 G16171/600,G16267/600		G16159/600,G16227/600 G16160/600,G16226/600		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							GMT			
	xv.	Secondary rubber pad							TECSPACK			
	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					

