



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6004	DISPATCH DATE				07.11.206
2.	Railway	SR	Type	LWFCWAC	Coach No.	16028/C	
3.	Booked to		SSE/C&W/PER				
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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	87/85		
	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	ORIENTAL				
	iii.	SEATS/ BERTHS	RAJINDER DASS				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	JBM				
	vii.	WATER TANKS	SHIVALIK,AMIT				
	viii.	UIC VESTIBULE	SSIPL				
	ix	FLOOR BOARD	TAYAL				
	x	PVC FLOORING	RESPONSIVE				
10.							
	i	Modification / Trail (if any):				NIL	
	ii	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6004		SR		LWFCWAC		16028		09-07-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166589						166590			
	ii.	<b>Frame No.</b>	FIAT-4881						FIAT-4972			
	iii.	<b>Bolster No.</b>	5920-PS						5931-PS			
	iv.	<b>Axle No.</b>	N-5863			N-6961			N-0976		N-6386	
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	13350-00183	13354-00142	13354-00241	13354-00226	13351-00160	13353-00136	13350-0138	13350-00190		
	vii.	<b>R.B. Nos.</b>	81307	33576	33941	83216	35069	33978	33920	21981		
	viii.	<b>R.B. Make</b>	SKF			SKF			SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-12-5-1456	FSK-16-5-64	DN-12-5-1444	FSK-16-5-65	DN-12-5-1457	FSK-16-5-48	DN-12-5-1446	FSK-16-5-40			
ii.	<b>Ht. at test load</b>	505	465	506	463	503	465	504	466.50			
iii.	<b>Align .deviation</b>	18	8	17	7	16	9	15	8			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-11			RSK	
	ii.	Primary inner Spring			RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper			1304,1333,1420,1329			1429,1315,1435,1270			KNORR	
	iv.	Secondary damper			0544,0526			0506,510			KNORR	
	v.	Lateral Damper			0119			0134			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			D16030/600,D16024/600 D16029/600,D16185/600			D16204/600,D16084/600 D16209/600,D16082/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				



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**ROLLING STOCK CERTIFICATE**

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6001	DISPATCH DATE				08.11.2016
2.	Railway	SR	Type	LWFCWAC	Coach No.	16028/C	
3.	Booked to	SSE/C&W/PER					
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	1104	1104		
	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 <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	87/86		
	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	ORIENTAL				
	iii.	SEATS/ BERTHS	RAJINDER DASS				
	iv.	BODY SIDE DOOR	SUKATA				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	JBM				
	vii.	WATER TANKS	SHIVALIK,AMIT				
	viii.	UIC VESTIBULE	SSIPL				
	ix	FLOOR BOARD	NARMADA				
	x	PVC FLOORING	POLIMAR				
10.							
	i	Modification / Trail (if any):				NIL	
	ii	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			6001		SR		LFCWAC		16029/C		23-09-2016	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	166856						166857			
	ii.	<b>Frame No.</b>	FIAT-5177						FIAT-5162			
	iii.	<b>Bolster No.</b>	6196-GT						6207-GT			
	iv.	<b>Axle No.</b>	R-3567			P-9417			N-6222		N-6153	
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	00132-7176	00129-7196	00128-7196	00052-7301	05711-6QM6	04318-6QL3	00160-7198	00101-7196		
	vii.	<b>R.B. Nos.</b>	01879	02131	00887	01996	02324	01867	02409	02283		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	RSK-16-6-844	ABOK-16-9-28	RSK-16-6-1034	ABOK-16-9-26	RSK-16-6-982	ABOK-16-9-27	RSK-16-6-801	ABOK-16-9-25			
ii.	<b>Ht. at test load</b>	510	468	509	468	511	468	512	468			
iii.	<b>Align .deviation</b>	15	15	17	13	6	14	7	17			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-15-11			RSK-15-11			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			3029,3043,2939,2868			3031,2983,3326,3032			KNORR	
	iv.	Secondary damper			0132,0314			0202,0325			SV	
	v.	Lateral Damper			0092			0107			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3640/691,3494/691 3641/691,3593/691			3639/691,3592/691 3638/691,3591/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									PRAG	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

LWFCWAC-6001



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6003	DISPATCH DATE				17.11.2016
2.	Railway	SR	Type	LWFCWAC	Coach No.	16030/C	
3.	Booked to		SSE/C&W/PER				
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		1104	1104	
v)	Buffer/CBC (Make )		SONROK		-FABLY	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 <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		VIB	87/86	
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		
iii.	SEATS/ BERTHS				RAJINDER DASS		
iv.	BODY SIDE DOOR				SUKATA/JBM		
v.	VESTIBULE SLIDING DOOR				KALSI		
vi.	SALOON DOOR				JBM		
vii.	WATER TANKS				SHIVALIK,AMIT		
viii.	UIC VESTIBULE				ESCORT		
ix	FLOOR BOARD				NARMADA		
x	PVC FLOORING				F POLIMAR		
10.							
i	Modification / Trail (if any):				NIL		
ii	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6003	SR	LWFCWAC	16030/C	21-09-2016			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	166834				166835			
	ii.	Frame No.	FIAT-5164				FIAT-5147			
	iii.	Bolster No.	6166-GT				6144-GT			
	iv.	Axle No.	P-9413		K-3432		R-2420		N-5949	
	v.	Wheel Dia.	916.50	917.00	916.50	917.00	916.50	916.50	916.50	916.00
	vi.	Wheel Disc No.	06505-6QM1	7301-00159	07655-6QK4	06527-6QM1	7301-00179	7301-00028	7301-00150	7301-00126
	vii.	R.B. Nos.	02515	03726	02328	03322	02114	03900	02337	03353
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	RSK-16-7-941	GBD-16-6-112	RSK-16-7-940	GBD-16-6-132	RSK-16-7-1007	GBD-16-6-135	RSK-16-7-935	GBD-16-6-116	
ii.	Ht. at test load	511	464	510	466	512	465	512	465	
iii.	Align .deviation	11	7	10	6	5	10	6	12	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			RSK-15-10		RSK-15-10		RSK	
	ii.	Primary inner Spring			RSK-14-5		RSK-14-5		RSK	
	iii.	Primary Damper			3196,3198,3395,3133		3120,3217,3288,3237		KNORR	
	iv.	Secondary damper			0444,0438		0401,0423		SV	
	v.	Lateral Damper			119		0099		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			3035/691,3648/691 3649/691,3070/691		3634/691,3037/691 3647/691,3036/691		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							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			

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