



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4029	DISPATCH DATE				20.08.2015
2.	Railway	NR	Type	LWSCZ	Coach No.	143605	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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 <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	VIBGYOR	86/90		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			KBI			
iii.	CDTS			NA			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			JBM, MRC			
vi.	SALOON COMPTT DOORS			NA			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			SUNCREAST			
x	LUGGAGE RACK			HANSPAL			
XI	FLOOR BOARD			TAYAL			
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.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4029	NR	LWSCZ	143605/C	27-07-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156512				156513			
	ii.	Frame No.	FIAT-3938				FIAT-4088			
	iii.	Bolster No.	4845-VT				4864-VT			
	iv.	Axle No.	128862/990	128604/989	C-4838		126584/481			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.50	916.00
	vi.	Wheel Disc No.	6147-00106	06148-00204	191-63305	203-63301	06145-00184	06146-00213	06147-00134	06147-00141
	vii.	R.B. Nos.	21719	25517	21747	26984	32110	31378	31730	01454
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	DN-12-8-1977	G-12-8-2785	DN-12-8-2078	G-12-8-2788	DN-12-8-1994	G-12-8-2920	DN-12-8-1702	G-12-8-3068	
ii.	Ht. at test load	509	466	511	467	509	468	511	466	
iii.	Align .deviation	18	19	20	19	15	22	18	22	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-14-5		RSK-14-5		RSK			
	ii.	Primary inner Spring	RSK-14-5		RSK-14-5		RSK			
	iii.	Primary Damper	24374,24380,25022,24382		24539,24592,24780,24344		KONI			
	iv.	Secondary damper	5069,5199		5096,5286		KONI			
	v.	Lateral Damper	3149		3162		KONI			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper					KBI			
	viii.	Brake Disc					KBI,FTI			
	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					MGN			
	xiv.	Traction centre elastic					MGN			
	xv.	Secondary rubber pad					TESPAK			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					SARITA, EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					EMSON, SARITA			
11.4	i.	Modification / Trial (if any):	NIL							
	ii.	Deviations (if any):	NIL							



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4021	DISPATCH DATE				21.08.2015
2.	Railway	NR	Type	LWSCZ	Coach No.	143606	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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 )	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 <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	ADVANCE	85/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	iii.	CDTS	--				
	iv.	SEAT & BERTH	SUTLEJ				
	v.	BODY SIDE DOORS	MRC, SUKATA, JBM				
	vi.	SALOON COMPTT DOORS	--				
	vii.	VESTIBULE SLIDING DOOR	KALSI				
	viii.	WATER TANKS	RAIL FAB				
	ix	UIC VESTIBULE	SUNCREAST				
	x	LUGGAGE RACK	SINDH				
	XI	FLOOR BOARD	TAYAL				
	XII	PVC	PREMIER POLYFILM				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			4021	NR	LWSCZ	143606/C	29-07-2015			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	156514				156515			
	ii.	Frame No.	FIAT-3962				SCI-FM-169-			
	iii.	Bolster No.	4880-VT				4985-P			
	iv.	Axle No.	126813/468	126662/480	125917/477	126284/474				
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	917.00	917.00	916.00	916.00
	vi.	Wheel Disc No.	122-63305	124-63305	296-63307	006-63305	6147-00158	06148-00212	039-63307	159-62314
	vii.	R.B. Nos.	25690	23353	25635	26093	02329	25686	22911	26083
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	DN-12-8-2653	G-12-8-3681	DN-12-8-2889	G-12-8-2680	DN-12-8-2972	G-12-8-2741	DN-12-8-2089	G-12-8-2721	
ii.	Ht. at test load	507	465	508	466	511	466	511	467	
iii.	Align .deviation	17	26	19	29	19	11	21	12	
11.3	<b>Items traceability:</b>									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	RSK-14-05			RSK-14-05			RSK	
	ii.	Primary inner Spring	RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper	24364,24298,24996,24370			24783,24377,24804,24559			KONI	
	iv.	Secondary damper	4775,4370			4355,5172			KONI	
	v.	Lateral Damper	3167			3097			KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	1126/691,1226/691,1128/691,1227/691			1110/691,1188/691,1106/691,1165/691			KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA, EMSON	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							MGN	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							EMSON, SARITA	
	xviii.	Ball joint roll link							EMSON, SARITA	
	xix.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWSCZ-4021



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4016	DISPATCH DATE				07.09.2015
2.	Railway	NR	Type	LWSCZ	Coach No.	143609	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	1102	1102			
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 <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	ADVANCE	87/89			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					KBI	
iii.	CDTS					--	
iv.	SEAT & BERTH					SUTLEJ	
v.	BODY SIDE DOORS					JBM, MRC, SUKATA	
vi.	SALOON COMPTT DOORS					NA	
vii.	VESTIBULE SLIDING DOOR					KALSI	
viii.	WATER TANKS					RAIL FAB	
ix	UIC VESTIBULE					SUNCREAST	
x	LUGGAGE RACK					HANSPAL	
XI	FLOOR BOARD					TAYAL	
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

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4016		NR		LWSCZAC		1443609		25-08-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156551						156550			
	ii.	<b>Frame No.</b>	FIAT-4152						FIAT-4036			
	iii.	<b>Bolster No.</b>	4917-VT						4902-VT			
	iv.	<b>Axle No.</b>	126222/471		127769/987		125792/473		125776/473			
	v.	<b>Wheel Dia.</b>	918.00	918.00	918.00	918.00	917.00	917.50	918.00	918.00		
	vi.	<b>Wheel Disc No.</b>	6196-00192	6194-00083	6194-00106	6196-00204	6197-00138	6197-00092	6197-00130	6194-00120		
	vii.	<b>R.B. Nos.</b>	03621	01962	01918	02225	03315	04063	03341	04011		
	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>				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	<b>Make &amp; nos.</b>	DN-12-9-2366	G-13-4-4570	DN-12-9-2037	G-13-4-4628	DN-12-9-2504	G-13-4-4623	DN-12-9-2160	G-13-4-4612			
ii.	<b>Ht. at test load</b>	504	467	505	468	505	466	504	466			
iii.	<b>Align .deviation</b>	19	22	21	27	14	15	15	21			
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			G-12-10			G-12-10			GF	
	ii.	Primary inner Spring			L&S-12-05			L&S-12-05			L&S	
	iii.	Primary Damper			22780,22360,22393,22359			22357,22757,22325,22329			KONI	
	iv.	Secondary damper			4271,70027			4696,4198			KONI	
	v.	Lateral Damper			509			253			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1368/691,1418/691,1359/691,1419/691			1358/691,1417/691,1361/691,1416/691			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									MGN	
	xiv.	Traction centre elastic									MGN	
	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.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

LWSCZ-4016



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4027	DISPATCH DATE				23.09.2015
2.	Railway	NR	Type	LWSCZ	Coach No.	143610	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
	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 <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	ADVANCE	87/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			FAIVELEY		
	iii.	CDTS			--		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			MRC, JBM		
	vi.	SALOON COMPTT DOORS			--		
	vii.	VESTIBULE SLIDING DOOR			KALSI		
	viii.	WATER TANKS			RAIL FAB		
	ix	UIC VESTIBULE			FRIKMART		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TAYAL		
	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

Page 2 of 3

11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4027		NR		LWBAC		143610		28-08-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156609						156610			
	ii.	<b>Frame No.</b>	FIAT-4129						FIAT-4152			
	iii.	<b>Bolster No.</b>	4865-P						4942-VT			
	iv.	<b>Axle No.</b>	128831/990		128561/989		B-9942		126282/474			
	v.	<b>Wheel Dia.</b>	916.00	916.00	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6197-00195	6196-00190	6198-00067	6198-00131	6198-00154	6212-00104	6149-00045	6196-00219	6196-00219	6196-00219
	vii.	<b>R.B. Nos.</b>	03641	03855	03298	03613	03433	03322	04241	03697	03697	03697
	viii.	<b>R.B. Make</b>	TIM		TIM		TIM		TIM			
	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>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	DN-8-12-2809	G-4-13-4225	DN-8-12-2353	G-4-13-4666	DN-8-12-2182	G-4-13-4252	DN-8-12-2202	G-4-13-4246	DN-8-12-2202	G-4-13-4246	
ii.	<b>Ht. at test load</b>	505	466	506	466	503	466	504	467	504	467	
iii.	<b>Align .deviation</b>	18	16	20	16	17	15	17	15	17	15	
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			L&S- 03-13			L&S- 03-13			L&S	
	ii.	Primary inner Spring			L&S-06-12			L&S-06-12			L&S	
	iii.	Primary Damper			786,727,507,811			740,715,607,709			GEREP	
	iv.	Secondary damper			5439,5197			5395,5184			KONI	
	v.	Lateral Damper			527			436			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F15104/600,F15131/600 F15108/600,F15129/600			15123/600,15121/600 15127/600,15134/600			FTI	
	viii.	Brake Disc									FTI,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									GMT	
	xiv.	Traction centre elastic									GMT	
	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.	<b>Modification / Trial (if any):</b>										NIL
	ii.	<b>Deviations (if any):</b>										NIL

LWSCZ-4027





रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4022	DISPATCH DATE			28.08.2015	
2.	Railway	NR	Type	LWSCZ	Coach No.	143607	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	106	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LJ90001))						
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	1104		
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 <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	ADVANCE	87/88		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
i.	BRAKE EQUIPMENT			FAIVELEY			
iii.	CDTS			--			
iv.	SEAT & BERTH			SUTLEJ			
v.	BODY SIDE DOORS			MRC, SUKATA, JBM			
vi.	SALOON COMPTT DOORS			--			
vii.	VESTIBULE SLIDING DOOR			KALSI			
viii.	WATER TANKS			RAIL FAB			
ix	UIC VESTIBULE			SUNCREAST			
x	LUGGAGE RACK			HANSPAL			
XI	FLOOR BOARD			TAYAL			
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

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4022		NR		LWSCZ		143607		07-08-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156518						156519			
	ii.	Frame No.	FIAT-4035						FIAT-4031			
	iii.	Bolster No.	4789-P						4862-VT			
	iv.	Axle No.	126034/480		126723/468		127851/987		126247/471			
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	918.00	918.00	918.00	918.00		
	vi.	Wheel Disc No.	06147-00110	6147-00099	06147-00027	06147-00187	06145-00213	06145-00216	06146-00168	06146-00045		
	vii.	R.B. Nos.	01234	01217	24361	24342	35015	30121	35023	02780		
	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.	DN-12-8-2722	G-12-8-3084	DN-12-8-2799	G-13-4-4476	DN-12-8-2176	G-13-4-4233	DN-13-2-3116	G-13-4-4582			
ii.	Ht. at test load	507	466	508	467	508	466	508	467			
iii.	Align .deviation	14	18	14	19	19	17	20	21			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			RSK-14-5		RSK-14-5		RSK			
	ii.	Primary inner Spring			RSK-14-5		RSK-14-5		RSK			
	iii.	Primary Damper			25035,24504,25034,24593		23498,23512,23688,23502		KONI			
	iv.	Secondary damper			4424,4642		4243,4291		KONI			
	v.	Lateral Damper			32		524		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			15004/600,15019/600,15096/600,15001/600		15099/600,15014/600,15098/600,15016/600		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							MGN			
	xiv.	Traction centre elastic							SGA,GMT			
	xv.	Secondary rubber pad							TESPAK			
	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					

LWSCZ-4022