



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4012	DISPATCH DATE				20.10.2014
2.	Railway	NER	Type	LWACCW	Coach No.	14083	
3.	Booked to		SSE/C&W/GKP				
4.	Tare Weight of Coach		52				
5.	Carrying Capacity	Seating	52	Sleeping	52	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	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	AIR FLOW				
	iii.	SEATS/ BERTHS	MOHAN				
	iv.	BODY SIDE DOOR	JBM, SUKATA				
	v.	VESTIBULE SLIDING DOOR	JBM				
	vi.	COMPTT.DOOR	RT				
	vii.	WATER TANKS	AMIT, SHIVALIK, E C BLADES				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4012		NER		LWACCW		14083		09-5-14	
12.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	146370					146410				
	ii.	Frame No.	FIAT-3030					FIAT-3141				
	iii.	Bolster No.	168-HEI					092-HEI				
	iv.	Axle No.	RWF-109707		RWF-109775		RWF-108911		RWF-109830			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.50	918.00	917.00	917.50		
	vi.	Wheel Disc No.	020-63307	236-63301	367-63309	159-51910	163-51908	315-51908	069-63301	123-63301		
	vii.	R.B. Nos.	12033	40970	12045	12067	03521	11416	12425	12276		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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.	CMGBD-10-12-51425	CMGBD-12-5-51338	CMGBD-10-12-51425	CMGBD-12-5-51338	CMGBD-10-12-51425	CMGBD-12-5-5538	CMGBD-10-12-51425	CMGBD-12-5-5538			
ii.	Ht. attest load	512	463	508	464	508	465	511	467			
iii.	Align .deviation	20	20	20	23	26	28	22	28			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			HZ-12		HZ-12		HZ			
	ii.	Primary inner Spring			HZ-12		HZ-12		HZ			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							SGA			
	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							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							SARITA			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	Modification / Trial (if any):				NIL						
	ii.	Deviations (if any):				NIL						

LWACCW-4012



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4022	DISPATCH DATE				27.10.2014
2.	Railway	NER	Type	LWACCW	Coach No.	14084	
3.	Booked to	SSE/C&W/GKP					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	1095		1096		
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	87/86		
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			STONE INDIA			
iii.	SEATS/ BERTHS			MOHAN			
iv.	BODY SIDE DOOR			JBM			
v.	VESTIBULE SLIDING DOOR			JBM			
vi.	COMPTT.DOOR			RT			
vii.	WATER TANKS			AMIT, SHIVALIK,			
viii.	UIC VESTIBULE			KRP			
ix	FLOOR BOARD			TAYAL			
X	PVC & LP SHEET			RESPONSIVE & KAE			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4022		NER		LWACCW		14084		18-08-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146309						146424			
	ii.	Frame No.	SCI-25						FIAT-2704			
	iii.	Bolster No.	180-HEI						078-HEI			
	iv.	Axle No.	Z-3894			Z-3844			Z-3735		Z-3317	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	917.00	917.00		
	vi.	Wheel Disc No.	235-11600	247-10568	197-11600	223-10559	158-10582	133-11600	177-11600	219-11605		
	vii.	R.B. Nos.	00634	00409	00544	00386	00346	34221	00001	00546		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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.	CMFSK-01-13-9514-93-129	CVFSK-12-12-9513-85-132	CMFSK-01-13-9514-93-130	CVFSK-12-12-9513-85-131	CMFSK-01-13-3574-90	CVFSK-12-12-3513-135	CMFSK-01-13-3574-95	CVFSK-12-12-3513-130			
ii.		Ht. attest load	508	466	510	467	511	468	508	467		
iii.		Align .deviation	18	41	16	42	11	45	12			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-03			RSK-03			RSK	
	ii.	Primary inner Spring			RSK-02			RSK-02			RSK	
	iii.	Primary Damper									KONI	
	iv.	Secondary damper									SACHS	
	v.	Lateral Damper									SACHS	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper									FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									SGA	
	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									SGA	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
12.4	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.	4005	DISPATCH DATE				29.10.2014
2.	Railway	NER	Type	LWACCW	Coach No.	14082	
3.	Booked to	SSE/C&W/GKP					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	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	85.7/86.6		
	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		AIR FLOW			
	iii.	SEATS/ BERTHS		SAVITRI			
	iv.	BODY SIDE DOOR		JBM,SUKATA			
	v.	VESTIBULE SLIDING DOOR		JBM			
	vi.	COMPTT.DOOR		RT			
	vii.	WATER TANKS		AMIT, SHIVALIK,KUTEER			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		NARBADA			
	X	PVC & LP SHEET		RESPONSIVE & KAE			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4005		NER		LWACCW		14082		09-5-14	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146373						146411			
	ii.	Frame No.	FIAT-2354						FIAT-3105			
	iii.	Bolster No.	086-HET						121-HEI			
	iv.	Axle No.	RWF-109326		RWF-110484		T-4537		RWF-110125			
	v.	Wheel Dia.	916.00	916.50	915.50	915.50	915.50	915.00	915.00	915.00	915.50	
	vi.	Wheel Disc No.	327-51908	305-51916	186-63301	242-51916	134-63301	176-50788	074-51910	198-51908		
	vii.	R.B. Nos.	03528	40500	12273	33943	03663	03667	40984	03675		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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.	CMGBD-10-12-51425	CMGBD-12-5-51338	CMGBD-10-12-51425	CMGBD-12-5-51338	CMGBD-10-12-51425	CMGBD-12-5-55338	CMGBD-10-12-51425	CMGBD-12-5-55338			
ii.	Ht. attest load	512	465	512	464	509	466	508	467			
iii.	Align .deviation	26	32	22	30	25	36	27	38			
12.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			HZ-12		HZ-12		HZ			
	ii.	Primary inner Spring			HZ-12		HZ-12		HZ			
	iii.	Primary Damper							GEREP			
	iv.	Secondary damper							GEREP			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							FTI			
	ix.	Ball joint Control arm							SGA			
	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							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	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.	4026	DISPATCH DATE				31.10.2014
2.	Railway	NER	Type	LWACCW	Coach No.	14085	
3.	Booked to	SSE/C&W/GKP					
4.	Tare Weight of Coach	52					
5.	Carrying Capacity	Seating	52	Sleeping	52	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	1104		
	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	86/86		
	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		AIKON			
	iii.	SEATS/ BERTHS		MOHAN			
	iv.	BODY SIDE DOOR		JBM			
	v.	VESTIBULE SLIDING DOOR		JBM			
	vi.	COMPTT.DOOR		RT			
	vii.	WATER TANKS		SHIVALIK,KUTEER			
	viii.	UIC VESTIBULE		KRP			
	ix	FLOOR BOARD		NARBADA			
	X	PVC & LP SHEET		RESPONSIVE			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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12.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4026		NER		LWACCW		14085		18-08-2014	
12.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	146707						146708			
	ii.	Frame No.	FIAT-3373						FIAT-3355			
	iii.	Bolster No.	3982-GT						3889-P			
	iv.	Axle No.	RWF-110566			Z-3759			Z-3676		129382/982	
	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.	081-11605	358-10559	313-11611	230-11607	106-11600	265-11600	340-10579	272-10559		
	vii.	R.B. Nos.	00309	34379	34200	00431	00111	00613	00170	35823		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
12.2	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.	G-4-12-993	G-4-12-1723	G-4-12-994	G-4-12-1745	G-4-12-998	G-4-12-1766	G-4-12-952	G-4-12-2024			
ii.	Ht. attest load	512	468	510	466	511	468	511	468			
iii.	Align .deviation	11	22	8	22	3	23	1	22			
12.3	Items traceability:											
	S no.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-12-10		G-12-10		GF			
	ii.	Primary inner Spring			G-12-5		G-12-5		GF			
	iii.	Primary Damper							KONI			
	iv.	Secondary damper							SACHS			
	v.	Lateral Damper							SACHS			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper							KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	x.	Lateral Bump stop							MTC			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							GMT			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							SARITA			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
12.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

LWACCW-4026