



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	3026	DISPATCH DATE			21.5.2014
2.	Railway	SR	Type	LWSCZAC	Coach No.	13161
3.	Booked to	SSE/C&W/PER				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	Luggage
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	NEROLAC	89/91	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
	i.	BRAKE EQUIPMENT	FAIVELEY			
	iii.	CDTS	AMIT			
	iv.	SEAT & BERTH	SUTLEJ			
	v.	BODY SIDE DOORS	MOHAN RAIL			
	vi.	SALOON COMPTT DOORS	KALSI			
	vii.	VESTIBULE SLIDING DOOR	JBM			
	viii.	WATER TANKS	AMIT			
	ix	UIC VESTIBULE	KRP			
	x	LUGGAGE RACK	RAIL TECH			
10.						
	10.1	Modification / Trail (if any):				NIL
	10.2	Deviations if any:				NIL



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Shell No.:- 3026

Date: 02-04-2014

RLY	SR	Type	LWSCZAC	Coach No.	13161
-----	----	------	---------	-----------	-------

6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146290				146291			
Frame No.	FIAT-2817				SCI/FM-23			
Bolster No.	HEI-155				068-HEI			
Axle No.	H-3616		RWF-109835		RWF-109882		RWF-109959	
Wheel Diameter	918.00	918.00	917.00	917.50	918.00	918.00	918.00	918.00
Wheel Disc No.	142-50859	297-50857	204-50845	067-51777	299-50800	149-51910	025-51908	041-50846
R.B. Nos.	04739	04836	03463	04273	03675	03384	03739	03702
R. B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.1 Secondary suspension load deflection Values:

Description	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & nos.	RSK-03-13-039	RSK-03-13-062	RSK-03-13-037	RSK-03-13-008	RSK-03-13-025	RSK-03-13-010	RSK-03-13-029	RSK-03-13-001
Ht. Attest Load	510	466	508	468	512	468	512	468
Align. deviation	19	44	20	44	31	18	28	16

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	RSK-06-13	RSK-06-13	RSK
2	Primary inner Spring batch no	RSK-06-13	RSK-06-13	RSK
3	Primary Damper			SV
4	Secondary damper			SACHS
5	Lateral Damper			KONI
6	Brake cylinder & Caliper	A-14032/600,A-14025/600, A-14036/600,A-14023/600	B-4068/600,B-4067/600, B-4063/600,B-4076/600	FTI
7	Brake Disc			FTI
8	Ball joint Control arm			GMT
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			GMT
13	Ball joint Traction centre			GMT
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWSCZAC-3026



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	3023	DISPATCH DATE			24.5.2014
2.	Railway	SR	Type	LWSCZAC	Coach No.	13162
3.	Booked to	SSE/C&W/PER				
4.	Tare Weight of Coach	40.28 T				
5.	Carrying Capacity	Seating	78	Sleeping	NIL	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	91/91	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:				Make	
	i.	BRAKE EQUIPMENT			KBI	
	iii.	CDTS			AMIT	
	iv.	SEAT & BERTH			SUTLEJ	
	v.	BODY SIDE DOORS			MOHAN RAIL	
	vi.	SALOON COMPTT DOORS			KALSI	
	vii.	VESTIBULE SLIDING DOOR			JBM	
	viii.	WATER TANKS			AMIT	
	ix	UIC VESTIBULE			KRP	
	x	LUGGAGE RACK			RAIL TECH	
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

Shell No.:- 3023

Date: 02-04-2014

RLY	SR	Type	LWSCZAC	Coach No.	13162
-----	----	------	---------	-----------	-------

6.0 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	146061				146281			
Frame No.	FIAT-2830				FIAT-2336			
Bolster No.	125/VT/ASR				3501-VT			
Axle No.	RWF-109928		RWF-110135		H-3270		H-3249	
Wheel Diameter	918.00	917.50	918.00	918.00	918.00	918.00	918.00	918.00
Wheel Disc No.	321-51908	315-51915	080-51777	302-50843	343-51781	027-50800	076-50843	332-50843
R.B. Nos.	04756	04890	04694	04748	03320	04576	03375	06545
R. B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.1 Secondary suspension load deflection Values:

Description	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & nos.	DN-13-5-3797	G13-5-5049	DN12-01-991	G13-05-5070	DN13-5-3581	G13-5-5056	DN13-5-3683	G13-5-4986
Ht. Attest Load	508	466	507	466	505	467	508	467
Align. deviation	18	14	21	13	18	20	15	18

6.2 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
1	Primary Outer Spring batch no.	G-13-3	G-13-3	GF
2	Primary inner Spring batch no	L&S-5-12	L&S-5-12	L&S
3	Primary Damper			SV
4	Secondary damper			SACHS
5	Lateral Damper			KONI
6	Brake cylinder & Caliper	H5029/691,H4617/691 H5258/691,H4616/691	H6473/691,H6334/691 H6470/691,H5959/691	KBI
7	Brake Disc			FTI
8	Ball joint Control arm			SGA
9	Lateral Bump stop			GMT
10	Traction center make			SARITA
11	Traction lever make			SARITA
12	Ball joint traction lever			GMT
13	Ball joint Traction centre			SGA
14	Secondary rubber pad			TESPAK
15	Rubber spring			GMT
16	Anti roll bar make			SARITA
17	Roll link make			SARITA
18	Fork make			EMSON

LWSCZAC-3023