



रेल डिब्बा कारखाना, रायबरेली RAIL COACH FACTORY, RAE BARELI



ROLLING STOCK CERTIFICATE

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Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 25.07.2012

1. Shell No. 14

Date of Dispatch: 26.06.2012

RLY	N	W	R	Type	L	W	S	C	Z	A	C	Coach No.	1	1	1	6	7	C
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2. Railway Board's Order No. : 2011/M(C)/142/4, dt: 20.05.2011

3. Tare Weight of Coach : 40.28 Tonnes

4. Carrying Capacity : (a) Seating : 78 (b) Sleeping : NIL (c) Luggage : NIL

5. Detail of Bogies :

Items	PP Side				Non PP Side			
Bogie No.	128103				128100			
Axle No.	RWF-65119		RWF-68898		RWF-68937		RWF-58074	
Wheel Dia.	916.00	916.00	916.40	916.00	916.40	916.10	916.10	916.00
Wheel Disc No.	7742-00101	7761-00010	7745-00019	7762-00144	6561-00034	7608-00076	7761-00003	7761-00024
R. B. Nos.	04242	02620	03172	03039	04188	03960	03987	02988
R. B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
R. B. Type	CARTRIDGE TAPER ROLLER BEARING							

LEADING DIMENSIONS :

S. No.	Description	Dimension (mm)
1.	Maximum length over body	23700
2.	Maximum width over body	3240
3.	Maximum height from Rail level	4039
4.	CBC height/Buffer height from Rail level	1105 +0/-15

1) 1100 2) 1105

7. AIRBRAKE TEST REPORT :

ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1. Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ Max. pressure in BC ➤ All Brake are applied 	6 – 10 sec. 3.0 ± 0.15 kg/cm ² . OK	10 sec. 3.15 kg/cm ² OK
2. Insensitivity	➤ Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3. Sensitivity	➤ Exhaust BP @ 0.1 kg/cm ² /Sec, after 02 Sec.	Brake must apply	OK

8. PAINTING DETAILS :

S. No.	Description	Type of paint	Make	Average gloss value
1.	PAINT	P.U. Paint	Dupont India Ltd.	86.52
2.	APPLICATION OF PCN-123	N.A.		

9. MODIFICATION (IF ANY) : NIL

10. DAVIATION (IF ANY) : NIL

11. ITEM FITTED ON THE COACH ON TRIAL :

S. No.	Item Particulars	Purpose	Report Frequency	Reference & period of trial

12. TRACEABILITY OF ITEMS :

S. No.	ITEM	Sr. Nos.	Sr. Nos.	Supplier/Make
1	DAMPERS			M/s GEREP
2	CENTRE BUFFER COUPLER	M/s Fairclay Transport India Limited		
3	BRAKE EQUIPMENT			M/s Fairclay
4	CDTS	M/s Vibhu Composite Works		
5	SEATS/BERTHS	SUTLEJ Coach product private limited.		
6	SLIDING DOOR (Vestibule + Saloon)	M/s JBM		
7	WATER TANKS	30L - E.C. Blades & tools, 685L - Manoj Enterprises		
8	INTEGRATED MODULAR TOILET	Hindustan fibre limited		
9	PVC	M/s Responsive		
10	RMPU	M/s LLOYD		
11	MODULAR PANTRY UNIT	Vishal		

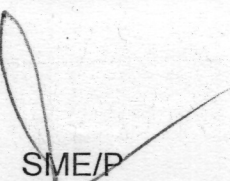
12	WHEEL SET EARTHING UNIT	chandra & chandra		
13	60 KVA TRANSFORMERS	Vimal Transfo. Corpo.		
14	MONO BLOCK PUMP CONTROLLER WITH PUMPS	Kalsi Sr.No. 222695	Sr.No. 222696	Kalsi
15	FEEDER JUNCTION BOXES	AECO		
16	REGULATOR BATTERY CHARGER	Sr.No. 11062939	HIRELL	
17	GPS BASED PASSENGER INFORMATION SYSTEM	AHUJA		

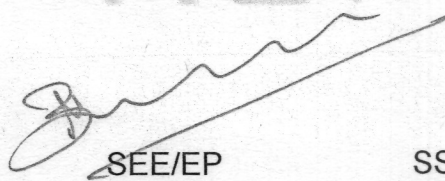
13. WARRANTY :

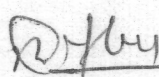
S. No.	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs etc.	NIL
2	Bought out items	24 months date of dispatch of coach or 30 months from date of supply of material whichever is earlier.


NOTE:

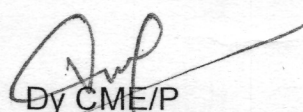
1. This warranty covers free supply of parts which wear out and falls within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of RCF/RBL.


SME/P
RCF/RBL


SEE/EP
RCF/RBL


SSE/QC (EL)
RCF/RBL


SSE/QC (Mech)
RCF/RBL


Dy CME/P
RCF/RBL



रेल कोच फैक्टरी, कपूरथला
RAIL COACH FACTORY, KAPURTHALA



Form No. : QMF 9454; Version: 03
DATE-03-02-2012 Page : 2 of 4

Rly		Type	L	G	S	L	H	B		Coach No.	1	1	1	6	7	C
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6.1 Wheel & Axle details:

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Items	PP Side				Non PP Side			
Bogie No.	128100				128103			
Axle No.	RWF-68937		RWF-58074		RWF-65119		RWF-68898	
Wheel Diameter	916.40	916.10	916.10	916.00	916.00	916.10	916.40	916.00
Wheel Disc No.	6561-00034	7608-00076	7761-0003	7761-00024	7742-00101	7761-00010	7745-00019	7762-00144
R.B. Nos.	04188	03960	03987	02988	04242	02620	03172	03039
R. B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
RB Type	CARTRIDGE TAPER ROLLER BEARING							

6.2 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.	DN11&563	DN11&860	DN11&831	DN11&780	G10-11&347	G10-11&037	G11-10&132	G11-10&133
Compressed ht. at tested load	509	462	503	467	508	466	512	466
Alignment deviation	18mm	11mm	19mm	06mm	01mm	13mm	04mm	12mm

6.3 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
		Sr. nos.	Sr. nos.	
1	Primary Outer Spring	L&S09-11	L&S09-11	L&S
2	Primary inner Spring	L&S08-11,L&S09-11	L&S08-11	L&S
3	Primary Damper	2663,2585,2801,2914	2637,2905,2852,2813	KONI
14	Secondary damper	1268,1174	1179,1256	GEREP
5	Lateral Damper	832	693	GEREP
6	Yaw Damper			
7	Brake cylinder & Caliper	86243/600,84499/600 86231/600,84500/600	86253/600,84416/600 86241/600,84338/600	FTI
8	Brake Disc			IMPORTED
9	Traction centre elastic			SGA
10	Ball joint Control arm			BATEQU
11	Rubber spring			SGA
12	Ball joint roll link			SGA
13	Lateral Bump stop			SGA
14	Ball joint traction lever			TECS
15	Secondary rubber pad			

	Govt. of India- Ministry of Railways (RAIL COACH FACTORY-RAEBARELI)	
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PRODUCT IDENTIFICATION AND TRACEABILITY (ELECT.) (FOR LHB/EOG AC CHAIR CAR)

PAGE 1 OF 1

COACH NO. NWR-11167/C		TYPE	LWSCZAC	RLY	
FURNISHING / SHELL NO. LWBCZAC-14 - 2012		DATE	30.3.12		
Sr. no.	Item description	Serial No.	Make		
SUPERSTRUCTURE :					
01.	Switch board cabinet 01 no.	11-04/2011	ISG		
02.	Regulated battery charger (RBC) 01 no.	11062939-3/11	HIREL		
03.	Amplifier unit for PAS 01 set	A	AHUGA		
04.	Wheel skid Protection system (WSP) 01 no.	SNO-26/11/164	SABWARLO		
05.	Micro controller (MPC) for RMPU 01 no.	HVAC-2011/304	JALYOD		
06.	RMPU 1 01 no.	L-1111333			
07.	RMPU 2 01 no.	L-1110291			
08.	PLC controller (mono block pumps) 01 no.	CPA-2023/23/11	Kalsi		
09.	Disconnecting & earthing device 01 no.	.	ISG		
PANTRY:					
10.					
a.)	Hot case 01 no.	11-12/2011	Vishal.		
b.)	Bottle cooler cum deep freezer 01 no.	18-12/2011			
c.)	Water boiler 01 no.	—			
d.)	Soup warmer 01 no.	—			
EXHAUST FANS :					
a.)	Exhaust Fan -1 (Lav+SBC) 01 no.	261-8/2011	Integ.		
b.)	Exhaust Fan (Lav. NPP side) 01 no.	403-9/2011			
c.)	Exhaust Fan for pantry 01 no.	107-09/2011			
LIGHT FITTINGS :					
11.	FL with NL w/o diffuser -25 nos		Talnohate.		
12.	FL w/o diffuser -06 nos		DR Auto		
13.	FL for lav's -03 nos		DR Auto		
14.	WC(For toilet engaged indication) -03 nos		DR Auto		
15.	Reading light 02-Seater -18/28 nos		Rail Tech.		
16.	Reading light 03-Seater -14 nos		" "		
17.	Flasher light -02 nos		DR Auto		
18.	Emergency lighting system 01 no.		DR Auto		
19.	Mobile charging socket (MCS) -18 nos		SSK Signature series of M/s SSK		
20.	Shaver sockets -03 nos				
UNDERFRAME :					
01.	Pre cooling socket (02F+01M) -01 Set		GGL make		
02.	ZS coupling -01 Set		MLI		
03.	Feeder Junction boxes -04 nos	0653-0655	ABCO		
04.	Wheel set earthing equipment -02 nos		CAC		
05.	Battery fuse box (+ve) 01 No.	0202-11-07	ISG		
06.	Battery fuse box (-ve) 01 No.	0260-BFA-9/11	ISG		
07.	110V,70AH,54 Cells of 02V (09 modules of 12V each maintenance free pre charged pure lead tin mono-block battery set. 01 Set)	(0892-0900) 05/2011	HBL		
08.	Mono block pumps -02 nos	222695-06-06/11	Kalsi		
09.	60KVA Transformer 750/415V. -01 No.	804-2011/12	Vimal.		
SIGNATURE		V.K. Verma			
NAME		V. K. Verma			
DESIG		SSF/Elect.			