



रेल डिब्बा कारखाना, रायबरेली  
RAIL COACH FACTORY, RAEBARELI



ROLLING STOCK CERTIFICATE

Page: 1 of 3

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

Date: 25.07.2012

1. Shell No. 04

Date of Dispatch: 26.06.2012

RLY	N	W	R	Type	L	W	S	C	Z	A	C	Coach No.	1	1	1	6	8	C
-----	---	---	---	------	---	---	---	---	---	---	---	-----------	---	---	---	---	---	---

2. Railway Board's Order No. : 2011/MCC/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.	128178				128177			
Axle No.	RWF-58045		RWF-65893		A-0466		RWF-65966	
Wheel Dia.	916.40	916.10	916.10	916.40	916.00	916.10	916.15	916.00
Wheel Disc No.	7755-00120	7477-00193	7742-00117	07761-00140	07477-00009	7755-00101	7755-00106	6561-00029
R. B. Nos.	91100	91685	91055	01279	89520	89528	00339	01265
R. B. Make	SKF		SKF		SKF		SKF	
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) 1104 2) 1101

## 7. AIRBRAKE TEST REPORT :

ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1. Full brake application	<ul style="list-style-type: none"> <li>➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>➤ Max. pressure in BC</li> <li>➤ All Brake are applied</li> </ul>	6 – 10 sec.  3.0 ± 0.15 kg/cm <sup>2</sup> . OK	8 Sec.  3.0 Kg/cm <sup>2</sup> OK
2. Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3. Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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.	86.4
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			GEREP
2	CENTRE BUFFER COUPLER	M/S Faiveley		
3	BRAKE EQUIPMENT			M/S KBI
4	CDTS	M/S Vibhu Composite Works		
5	SEATS/BERTHS	M/S SUTER		
6	SLIDING DOOR (Vestibule + Saloon)	Vestibule - M/S JBM, Saloon - M/S JBM		
7	WATER TANKS	30L - E.C. Blades & tools, 685L - M/S Manoj Enterprises		
8	INTEGRATED MODULAR TOILET	Hindustan Fibre Limited		
9	PVC	M/S Resposive		
10	RMPU	M/S LLYOD		
11	MODULAR PANTRY UNIT	Vishal		



Page: 3 of 3

12	WHEEL SET EARTHING UNIT	Chandra & Chandra		
13	60 KVA TRANSFORMERS	Vimal.		
14	MONO BLOCK PUMP CONTROLLER WITH PUMPS	S/N. 22270192	S/N. 222702	KASID
15	FEEDER JUNCTION BOXES	AECO		
16	REGULATOR BATTERY CHARGER	11062956	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



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

Rly		Type	L	W	S	C	N		Coach No.	1	1	1	6	8	C
-----	--	------	---	---	---	---	---	--	-----------	---	---	---	---	---	---

#### 6.1 Wheel & Axle details:

Items	PP Side				Non PP Side			
Bogie No.	128177				128178			
Axle No.	A-0466		RWF-65966		RWF-58045		RWF-65893	
Wheel Diameter	916.00	916.10	916.15	916.00	916.40	916.10	916.10	916.40
Wheel Disc No.	07477-00009	7755-00101	7755-00106	6561-00029	7755-00120	7477-00193	7742-00117	07761-00140
R.B. Nos.	89520	89528	00339	01265	91100	91685	91055	01279
R. B. Make	SKF		SKF		SKF		SKF	
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.	G11-12 &018	G11-11 &093	G11-12 &100	G11-11 &071	G11-12 &306	G11-11 &082	G11-11 &258	G11-12 &118
Compressed ht. at tested load	509	465	509	467	509	464	512	467
Alignment deviation	01mm	11mm	01mm	11mm	02mm	17mm	02mm	19mm

#### 6.3 Component traceability:

SNO	ITEM	PP Side Bogie	NPP side Bogie	Make
		Sr. nos.	Sr. nos.	
1	Primary Outer Spring	L&S-09-11	L&S-09-11	L&S
2	Primary inner Spring	L&S-08-11	L&S-08-11	L&S
3	Primary Damper	2211,2336,2273,2208	2546,2209,2358,2471	GEREP
4	Secondary damper	1454,1514	1479,1433	GEREP
5	Lateral Damper	842	717	GEREP
6	Yaw Damper			
7	Brake cylinder & Caliper	F1627/691,F1791/691 F1628/691,F1792/691	E6527/691,E7194/691 E6526/691,E7176/691	KBI
8	Brake Disc			
9	Traction centre elastic			IMPORTED
10	Ball joint Control arm			SGA
11	Rubber spring			BATEQU
12	Ball joint roll link			SGA
13	Lateral Bump stop			SGA
14	Ball joint traction lever			SGA
15	Secondary rubber pad			TESC





**Govt. of India- Ministry of Railways  
(RAIL COACH FACTORY-RAEBARELI)**



CC-02

PRODUCT IDENTIFICATION AND TRACEABILITY (ELECT.) (FOR LHB/EOG AC CHAIR CAR)

PAGE 1 OF 1

COACH NO.	TYPE	RLY	FURNISHING / SHELL NO.	DATE
NWR-11168/C LW5CZAC-2	LW5CZAC		LW5CZAC-04/2012	19.3.12
Sr. no.	Item description	Serial No.	Make	
<b>SUPERSTRUCTURE :</b>				
01.	Switch board cabinet 01 no.	RBL-11-09-0012	ISG	
02.	Regulated battery charger (RBC) 01 no.	1106-2956-3/11	HIRELL	
03.	Amplifier unit for PAS 01 set		AHUTA	
04.	Wheel skid Protection system (WSP) 01 no.	STN-30518-0276	- KNORR	
05.	Micro controller (MPC) for RMPU 01 no.	HVAC-2011359		
06.	RMPU 1 01 no.	L-1111337		
07.	RMPU 2 01 no.	L-1111334		
08.	PLC controller (mono block pumps) 01 no.	CPA-2055/03/11	Kalsi	
09.	Disconnecting & earthing device 01 no.			
<b>PANTRY:</b>				
a.)	Hot case 01 no.	17-12/11	Vishal.	
b.)	Bottle cooler cum deep freezer 01 no.	11-12/11		
c.)	Water boiler 01 no.	.		
d.)	Soup warmer 01 no.	.		
<b>EXHAUST FANS :</b>				
a.)	Exhaust Fan -1 (Lav+SBC) 01 no.	412-09/11		
b.)	Exhaust Fan (Lav. NPP side) 01 no.	235-08/11		
c.)	Exhaust Fan for pantry 01 no.	045-09/11		
<b>LIGHT FITTINGS :</b>				
11.	FL with NL w/o diffuser -25 nos		Technoware	
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	.		
<b>UNDERFRAME :</b>				
01.	Pre cooling socket (02F+01M) -01 Set		CGI make	
02.	ZS coupling -01 Set		MLI	
03.	Feeder Junction boxes -04 nos	633-636-7/11	AECO	
04.	Wheel set earthing equipment -02 nos	.	C&C	
05.	Battery fuse box (+ve) 01 No.	BFB-1003879-	AECO	
06.	Battery fuse box (-ve) 01 No.	BFB-1003874-	AECO	
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)	1081-1089 05/11	HBL	
08.	Mono block pumps -02 nos	222701402-3/11	Kalsi	
09.	60KVA Transformer 750/415V. -01 No.	803-2011/12	Vimal.	
<b>SIGNATURE</b>				
<b>NAME</b>		V. K. Verma		
<b>DESIG</b>		SSE/Elect.		