

DATE: 16.05.2016

Coach No.	1	6	2	5	2	/	C	-	DATE OF DISPATCH	3	0	0	1	2	0	1	7
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	5	9	-	2	0	1	6	-	1	7
-----	---	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

- #### 4. SHELL 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)1095 (NPPE) 2)1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s Ved Sessomeccanica India Pvt. Ltd. Kanpur	PP END	67159	NPP END	67159
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	67159	LH	67159
3.	End wall		PP- M/s E.C.Blade & Tool Chandigarh	PP END	67159	NPP END	67159
			NPP- M/s Rail Tech, KXH				
4.	Roof		M/s-DTL Ancillaries Ltd. PUNE				
5.	Centre Buffer Coupler		M/s SANROK	PP END	1852	NPP END	1832
6.	Buffers		N.A.				

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	<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	7 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/Sec, after 06 Sec. 	Brake must apply	OK

7. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s BERGER	91/89
2.	Insulation	Satisfactory		

Page 1 of 4





Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/392

Coach No.	1	6	2	5	2	/	C	-	DATE OF DISPATCH	3	0	/	0	1	/	1	7
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	C	R	Type	L	W	S	C	N	Shell No.	6	7	1	5	9	-	2	0	1	6	-	1	7
-----	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160818				160817			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/VS-326				VS/RBL-328			
Bolster no.	AMIT - 107				RBL-937			
Axle No	S-1565		S-1613		S-2905		S-2829	
Wheel Dia	917.474	917.467	917.475	917.489	917.400	917.302	917.392	917.273
Wheel Disc No	00062-6068 06-16	00143-6021 06-16	00038-6068 06-16	00160-6068 06-16	00084-6130 07-16	00054-6109 07-16	00101-6130 07-16	00044-6130 07-16
R.B. Nos.	03-16 87865	03-16 86001	03-16 87857	02-16 84042	02-16 80546	03-16 87858	02-16 83544	03-16 87712
CT R B Make	SKF		SKF		SKF		SKF	

9. 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.	G-9-16-232-40	G-9-16-286-40	G-9-16-222-40T	G-9-16-392-40T	G-9-16-220-37	G-9-16-214-37	G-9-16-199-37T	G-9-16-264-37T
Compressed Ht. at Tested Load	513	471	515	473	515	470	514	472
Alignment deviation (mm)	03	12	3	13	1	17	3	17

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	G	G-16-8	G-16-8
2.	Primary Inner Spring	CMFSK	11-16 1101-218 (26,85,9,22)	11-16-1101-218(54,96,25,145)
3.	Primary Damper	KONI	2016-06(33992,34089,34185,34195)	2016-06(34064,34256,33660,34096)
4.	Secondary Damper	KONI	18-2016 (8819,9293)	18-2016(9314,9307)
5.	Lateral Damper	KONI	22-2016 (4667)	22-16 (4607)
6.	Brake Cylinder	FAV	4941K29,4818K29,4819K29,4980K29	4890K29,4817K29,4820K29,4891K29
7.	Brake Caliper	FAV	4497-29,4506-29,4506-29,4496-29	4438-29,4507-29,4504-29,4439-29
8.	Brake Disc	KBI	24085280 0020-37/16,24085280 0019-37/16 24085282 0005-37/16,24085282 0004-37/16	24085282 0038-37/16,24085283 0001-37/16 24085681 0034-39/16,24085681 0036-39/16
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	GMT,SGA		
11.	Traction Centre make	EMSON		
12.	Traction lever make	JI,SARITA		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TEESPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA,SGA		
19.	Fork make	SARITA		

Signature
 Signature of SSE/Bogie/QC



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 392

Coach No.		1	6	2	5	2	/	C	-	DATE OF DISPATCH				3	0	0	1	2	0	1	7		
RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	5	9	-	2	0	1	6	-	1	7

11.TRACEABILITY OF FURNISHING ITEMS:

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI, Palwal Haryana	16K1898
2.	Pull box	M/s KBI, Palwal Haryana	
3.	DV	M/s KBI, Palwal Haryana	
4.	PVC	M/s Premier polyfilm, New Delhi	2016K2689
5.	UIC Vestibule (PPE)	M/s Sun crest Industries West Bengal	
6.	UIC Vestibule (NPPE)	M/s Sun crest Industries West Bengal	
7.	Foot Step	M/s Hi-tech Infra RBL	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
10.	Body Side Window	M/s AGF Pvt. Ltd. Kolkata	
11.	Emergency Window	M/s AB Composites, Kolkata	
12.	Hopper Window	M/s Aikon Technologies Pvt. Ltd. Solan(H.P.)	
13.	Non-AC Area Ceiling	M/s J.R. Industries, Jalandhar	
14.	Body Side Doors	M/s JBM, Faridabad	
15.	Vestibule Door(PPE)	M/s Hans pal KXH	
16.	Vestibule Door(NPPE)	M/s Hans pal KXH	
17.	Bio Tank	M/s Rail Tech, KXH	
18.	Auxiliary Water Tank	M/s Shivalik Fasteners, Mohali Punjab	
19.	Under Slung Water Tank (2X685L)	M/s Shivalik Fasteners, Mohali Punjab	
20.	Under Slung Water Tank (1X450L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s KPR Industries, Mohali	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

JH
MCF/RBL
गुणवत्ता विभाग
रेडि0का0, रायबरेली (लालगंज)





Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 392

Coach No.	1	6	2	5	2	/	C	-	DATE OF DISPATCH	3	0	0	1	2	0	1	7
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	5	9	-	2	0	1	6	-	1	7
-----	---	---	---	------	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL: NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(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 fails 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 MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com

SSE/QC/MCF/RBL गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy CME/FUR/MCF/RBL उप मुख्य अभियंता, फर्निशिंग Dy CME/ Furnishing आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली Modern Coach Factory Lalganj, Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 1 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16252/C
RAILWAY	CR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL,LAP CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2	CONTROL CIRCUIT	OK	
7.3	POWER CIRCUIT	OK	

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 2 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 3377/355/072 HT Panel Sr no : 3377/355/072	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make: KALSI Sr no PA: 5218/08/2016 Sr no 1: 267478/05/2016 Sr no.2: 267479/05/2016 Srno.CPA: 5457/07/2016	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	04
04.	Lavatory light fitting assly	LW 76001,Alt nil	04
05.	Fitment of Passenger Alarm cum indication light (PACIL).	As per drg no. LW 76005,Alt -e 02 nos	
06.	Fitment of Switch Plate Assly(Cabin Side)	EDML 086, Rev-03.	10
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	10
08.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: CROMPTON GREAVES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033,Alt`c,	04
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213,Alt`d'.	24
11.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	10

[Signature]
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 3 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

12.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	CC 76216, Alt `c'.	02
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	24
14.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
15.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
16.	Regulated battery charger Make : HI REL Sr no: 16080115	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 535	As per RDSO/PE/SPEC/TL 0158, 2010, Rev `0',Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	As per spec No EDTS 105,Rev `e' Am-2	02 sets
19.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
20.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0116322597	M/s : KNORR	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : AMARARAJA Lug date : 12/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
23.	Battery box for LHB coaches.	CC 91205	01

SSE/EL/QC

Dy CEE(P)/MCF/RBL

वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer
Electric Production - Quality
RCF / RBL / LLJ

उप मुख्य विद्युत अभियन्ता (उत्पादन)
रेल कोच फैक्टरी-रायबरेली, लालगंज
DY.CEE/P-RCF/RBL/LLJ



RCF/RBL