



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/2017-18/ 260

Coach No.		1	7	2	2	3	/	C	Date of dispatch					2	0	-	0	9	-	1	7			
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	7	-	2	0	1	7	-	1	8

- Railway Board's Order No. : 2017/M(C)/142/2 Dated- 26.05.2017
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL

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) 1101 (NPPE) 2) 1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:


S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/S Ved sessomeccanica india pvt.ltd.cnb	PP END 46 NPP END 46
		Complete M/S Ved sessomeccanica india pvt.ltd.cnb	
2.	Side wall	M/s MCF/RBL	RH 77097 LH 77097
3.	End wall	PP END M/S E.c.blades & tool pvt. Ltd CDG	PP END 77097 NPP END 77097
		NPP END M/S E.c.blades & tool pvt. Ltd CDG	
4.	Roof	M/S Pennar ind. Ltd. Thiruvallur tamilnadu	
5.	Centre Buffer Coupler	M/S Sanroc faridabad	PP END 3394 NPP END 3440
6.	Buffers	N.A.	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ± 0.15 kg/cm ² . OK	07 Sec. 3.0 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 06 Sec.	Brake must apply	OK

7. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s-GS	M/s-GSI	90/87
2.	Insulation			Satisfactory	


 वरिष्ठ निरीक्षक
 SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 रेडिओका, 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/2017-18/260

COACH.NO	1	7	2	2	3	/	C	DATE OF DISPATCH							2	0	-	0	9	-	1	7			
RLY	N	W	R	-	TYPE	L	W	S	C	N	-	SHELL. NO.	7	7	0	9	7	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170572				170571			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-382				ECBT-398			
Bolster no.	SFPL-272				SFPL-210			
Axle No	N-6139		N-6009		A-3523		C-4024	
Wheel Dia	917.542	917.565	917.533	917.558	917.465	917.413	917.490	917.426
Wheel Disc No	08839-70H4 04-17	09581-7NM5 04-17	10033-7NK-8 04-17	10030-7NMO 04-17	00154-7248 09-16	00012-7258 09-16	00181-7248 09-16	00182-7248 09-16
R.B. Nos.	05-16 97839	09-16 76476	05-16 96697	09-16 76676	09-16 63141	09-16 77883	05-16 97535	09-16 78005
CTRB Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMGBD 12-16- 5101-136-47	CMFSK-04-17- F08-222-75	CMGBD 12-16- 5101-136-94	CMFSK-04-17- F08-222-22	CMFSK-02-17- F09-299-57	CMFSK-04-17- F08-222-104	CMFSK-02-17- F09-299-87	CMFSK-04-17- F08-222-174
Compressed Ht. at Tested Load	515	467.5	516	467.5	514.5	468.5	512.5	469.5
Alignment deviation (mm)	06	11	07	11	09	08	09	09

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	CMFSK	05-17 (288,248,301,444)	05-17(14,400,375,368)
2.	Primary Inner Spring	CMGBD	03-17 (29,28,300,294)	03-17 (59,02,319,07)
3.	Primary Damper	KNORR	05-17(7821,7617,7625,7627)	05-17(7782,7781,7635,7661)
4.	Secondary Damper	GEREP	KW-17-2017 301550739	KW17-2017 301550739
5.	Lateral Damper	KONI	42-2016 6014	42-2016 6025
6.	Brake Cylinder	FAV	E17-075, E17-301, E17-302, E17-079,	D17-278, E17-085, E17-087, A17-276,
7.	Brake Caliper	FAV	F17122B, F17121B, F17120B, F17123B,	F17063B, F17060B, F17061B, F17062B,
8.	Brake Disc	KBI/FAV	24099123-0002-13-17, 24099123-0001-13-17, 24099124-0021-13-17, 24099124-0023-13-17,	D-133561-300-02-17-719, D-133561-300-02-16-716, D-133561-300-02-17-832, D-133561-300-02-17-831,
9.	Ball Joint Control Arm	GMT		
10.	Lateral Bump Stop	GMT		
11.	Traction Centre make	SARITA/ EMSON		
12.	Traction lever make	SARITA		
13.	Ball joint traction Lever	GMT/S-BLOC		
14.	Ball joint traction centre	GMT/S-BLOC		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA/EMSON		
18.	Roll Link make	SARITA/SGA /S-BLOC		
19.	Fork make	SARITA		

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/2017-18/ 260

Coach No.		1	7	2	2	3	/	C	Date of dispatch				2	0	-	0	9	-	1	7				
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	7	-	2	0	1	7	-	1	8

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	F17083B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17065596B
4.	Foot Step	M/s Super spark pvt. ltd. faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S TWPL mumbai	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
10.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
11.	Gangway bridge mounting (PPE)	M/S-Mahaveer metal works KXH	
12.	Gangway bridge mounting (NPPE)	M/S-Mahaveer metal works KXH	
13.	Body Side Window	M/s AGF Pvt. Ltd, Kolkata	
14.	Emergency Window	M/s AB composites Pvt. Ltd, Kolkata	
15.	Hopper Window	M/s Rail tech KXH	
16.	Side panel	M/S-Milton ind.vadodara	
17.	Roof ceiling	M/s G.I.natural fibre Pvt. Ltd, Kolkata	
18.	Door way ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors	M/s Sukata CDG	
20.	Vestibule Door(PPE)	M/s Kalsi LDH	
21.	Vestibule Door(NPPE)	M/s Kalsi LDH	
22.	Bio Tank	M/s Oriental veneer products	
23.	Auxiliary Water Tank	M/s Amit eng.mohali	
24.	Under Slung Water Tank(2X685L)	M/s Amit eng.Baddi	
25.	Under Slung Water Tank (1X685L)	M/s Amit eng.Baddi	
26.	Bib Cock/Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
27.	Lavatory Doors	M/s JR Industries Jalandhar	
28.	Seat & Berth	M/s Oriental veneer products mumbai	
29.	Snack Table	M/s Gandhi Enterprises Jalandhar	

[Signature]
SSE/QC/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/2017-18/ 260

Coach No.		1	7	2	2	3	/	C	Date of dispatch					2	0	-	0	9	-	1	7			
Rly	N	W	R	-	Type	L	W	S	C	N	Shell No.	7	7	0	9	7	-	2	0	1	7	-	1	8

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 Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain 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:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- 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.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4,para- V of RDSO specification no .M&C/PCN/100/2013-Given below -

S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate)Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)
1	After 1 year	80% of initial gloss	7	5B
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	4B

If any imperfection is noticed or any defect arises during the warranty –period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

जी.एस. पण्डेय G.S. Pandey	जोगिन्दर सिंह Joginder Singh	डी.एम.एम.एम.एम. Dy. QM/MCF/RBL
वरिष्ठ सहायक, गुणवत्ता विभाग SSE/QC/MCF/RBL	सहायक, गुणवत्ता विभाग / गुणवत्ता Assist. Manager / Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	अधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



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	17223/C
RAILWAY	NWR	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	


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 : SSK On Board Sr no : 2017-06-184 HT Panel Sr no : 2017-06-164	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2017/07/64 Sr no.1 : 17070454 Sr no.2 : 17040548 Sr no.CPA: 2017/07/020	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Fitment of Passenger Alarm cum indication light (PACIL), Make : DR AUTO	As per drg no. LW 76005,Alt - e	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : RECORD	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK	EDML 086, Rev 03, ITEM-02	10
07.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : CONCORD	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Fitment of Fluorescent light fitting for LHB type coaches. Make : DR AUTO	LW 76033,Alt -c	04
09.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DEW	CC 76213,Alt` d`.	24
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : KAVERI	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

11.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : KAVERI	CC 76216, Alt 'c'.	02
12.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	24
13.	Battery fuse box +ve Make : ISGPL	LW 71001,Alt-F	01
14.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
15.	Regulated battery charger Make : IC ELE. Sr no: 1703052	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
16.	9KVA transformer Make : VIMAL Sr no : 868	As per RDSO/PE/SPEC/TL 0158, 2010, Rev '0', Ty I.	01
17.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRES	As per spec No EDTS 105,Rev 'e' Am-3, TYPE-2	01 set
18.	Feeder junction boxes. Make : ELECO	EDTS-328 REV-C	01 set
19.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES, CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
20.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 12/17/386	M/s : FAIVELEY	01 set
21.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : A.RAJA Lug date : 08/17	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
22.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL