



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/1155

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2010-10-10																								
RLY	N	R	-	Coach No.	1	9	1	8	9	9	/	C	DATE OF DISPATCH	0	5	-	0	2	-	1	9			
DISPATCH TO	Sr.DME/CHG/DLI			Type	L	W	S	C	N	1	Shell No.	8	7	4	6	2	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2, Dated-28-11-2018
- 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/-10	1) 1099 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s- CHENNAI RADHA ENG.	45
	Front Part	NPP END M/s- CHENNAI RADHA ENG.	45
	Complete	M/s- CHENNAI RADHA ENG.	45
2.	Lav. side wall	M/S-RAIL TECH, KXH	LAV.1 - LAV.2 -
		M/S-RAIL TECH, KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE M/S-ECBT, CHANDIGARH	66
		RH SIDE M/S-ECBT, CHANDIGARH	66
4.	End wall	PP END M/S-NECHD, CHANDIGARH	---
		NPP END M/S-NECHD, CHANDIGARH	---
5.	Roof	M/s-PIL, THIRUVALLUR	264
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 10684 NPP END 10735

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	➤ 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 DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -VIBGYOR	Supply & apply	89/88
2.	Insulation			Satisfactory	

Signature
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओकॉ, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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RLY	N	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	4	6	2	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182669				182670			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1555				ECBT-1405			
Bolster no.	APEX-12				APEX-32			
Axle No	18G- 3374 RWF		18G- 4261 RWF		18F- 2507 RWF		18G- 2869 RWF	
Wheel Dia	917.522	917.649	917.520	917.649	917.546	917.64	917.611	917.629
Wheel Disc No	TZ08-18 45588-8RR9	TZ08-18 45593-8RL9	TZ08-18 45132-8RN2	TZ08-18 45220-8RN4	TZ08-18 45594-8PQ7	TZ08-18 45076-8RS7	TZ07-18 45133-8RN2	TZ08-18 45221-8RN4
R.B. Nos.	09-18 23340	09-18 22995	09-18 21988	09-18 22948	09-18 22588	09-18 23315	09-18 22926	09-18 22967
CT R B Make	Timken		Timken		Timken		Timken	

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.	CMFSK01-19- 5101-510-42	CMGBD05-18- 5100-64-485	CMFSK01-19- 5101-510-50	CMGBD05-18- 5100-70-468	CMGBD01-18- 5101-510-83	CMGBD05-18- 5100-70-502	CMFSK01-19- 5101-510-37	CMGBD05-18- 5100-64-497
Compressed Ht. at Tested Load	513	472	514	472	516	472	516	471
Alignment deviation (mm)	8	5	8	6	8	12	8	11

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	14158,14152	14155,14339
2.	Primary outer Spring	CMGBD	12-18 1100(133-349,133-342,142-276,142-264)	12-18 1100(133-321,133-340,142-359,142-392,)
3.	Primary Inner Spring	CMGBD	03-18 1101 (113-2519,31-2992,31-2524,31-2490)	03-18 1101 (32-2563,31-2527,31-2999,32-1996)
4.	Primary Damper	KNORR	12-18(47228,48580,47231,48706)	12-18(48281,48610,48261,48701)
5.	Secondary Damper	GEREP	KW16-2018 301550739	KW16-2018 301550739
6.	Lateral Damper	IAI	01-19 237261	01-18 237209
7.	Brake Cylinder	FAV	M18(526,444,550, N18-013	M18-458, N18(142,172,064)
8.	Brake Caliper	FAV	A19(407,406,477,479)B	A19(380,377,405,408)B
9.	Brake Disc	KBI	24162277 0018-39/18,24162277 0017-39/18 24162277 0019-39/18,24162277 0004-39/18	24162216 0010-39/18,24162274 0041-39/18 24162277 0016-39/18,24162276 0011-39/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT, SARITA/PP/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	031118-2,121218-1,131118-2,081218-2	081218-1,121218-2,031218-2,131118-2
22.	Control Arm Lower	RVE	031118-1,071218-1,071218-1,301218-3	071218-1,281118-2,071218-1,051218-1

Signature of SSE/Bogie/QC



आधुनिक रेल डिब्बा कारखाना, रायबरेली



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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	4	6	2	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY BADDI	M 18050 B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- FAIVELY BADDI	18115589 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/s- E.G. WOOD BOARD, HYDRABAD	
7.	PVC	M/S- RESPONSIVE INDS.DELHI	
8.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
9.	UIC Vestibule (PPE)	M/S-KRP, PUNE	
10.	UIC Vestibule (NPPE)	M/S-KRP, PUNE	
11.	Gangway bridge mounting (PPE)	M/S- COMPETANT ENG. JUC	
12.	Gangway bridge mounting (NPPE)	M/S- COMPETANT ENG. JUC	
13.	Body Side Window	M/S- AGF INDS, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- BEI PVT. LTD. PUNJAB	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/S- SYNTHETIC MODULAR ,KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR INDUSTRIES ,LDH	
20.	Vestibule Door(PPE)	M/S- KALSI INDS, LDH	
21.	Vestibule Door(NPPE)	M/S- KALSI INDS, LDH	
22.	Bio Tank LAV-1,3,4	M/s- SVARN INFRATEL PVT. LTD.	
23.	Bio Tank LAV-2	M/s- FLASH FORGE (P)LTD. VIZAG	
24.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
25.	Under Slung Water Tank(2X685L)	M/S SHIVALIC FASTNERS PVT.LTD. MOHALI	
26.	Under Slung Water Tank (1X685L)	M/s- AMIT ENG. BADDI	
27.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
28.	Lavatory Doors	M/S- KALSI INDS, LDH	
29.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
30.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
31.	Seat & Berth	M/S- SUKATA INDS. CDG	
32.	Snack Table	N/A	

Ruma
SSE/QC/MCF/RBL
वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)





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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	4	6	2	-	2	0	1	8	-	1	9
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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the 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 qualityrcfbl@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.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

गुणवत्ता विभाग
रेडिओक्र 0, रायबरेली (लालगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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
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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	191899/C
RAILWAY	NR	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





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : ISG On Board Sr no : 18.07.0139 HT Panel Sr no : 17.10.0006	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/56 Sr no.1 : 18110178 Sr no.2 : 18110424 Sr no.CPA: 2018/12/051-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : CONCORD	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : CG POWER	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : AGASTYA	CC76289 & CC76443	10

Senior Section Engineer
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : IC ELECTRICAL Sr no: 12-18-0091	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017994	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0`,Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES.	As per spec No EDTS 105,Rev`e` Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : SIDWAL	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : DARSHAN INTERPRISES.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 41/18/1699	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHH MODIFIED TRAY TOSKED-644 Make : SOUTHERN Lug date : 12/17	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	 AWM(E)/MCF/RBL SEE(P)/MCF/RBL
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गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

