



# 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/ 506

Coach No.	1	7	2	3	3	/	C	Date of dispatch	2	5	-	0	1	-	1	8
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Rly	E	Co	R	-	Type	L	W	S	C	N	Shell No.	7	7	1	6	6	-	2	0	1	7	-	1	8
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- Railway Board's Order No. : 2017/M(C)/142/2 Dated- 21.09.2017
- 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/-10	1) 1104 (NPPE) 2) 1105 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/S Manjit techno fab raebareli	PP END 120 NPP END 120
		Complete M/S Manjit techno fab raebareli	
2.	Side wall	M/S MCF/RBL	RH 77166 LH 77166
3.	End wall	PP END M/s KEPL/Punchkula	PP END 77166 NPP END 77166
		NPP END M/s KEPL/Punchkula	
4.	Roof	M/S TI metal forming thiruniravur	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 2783 NPP END 2822
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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 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 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 GS	MCF	90/89
2.	Insulation			Satisfactory	

*[Signature]*  
SSE/QC/MCF/RBL

मृगयता विभाग  
रेडिओ, रायबरेली (जालगंज)



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COACH.NO	1	7	2	3	3	/	C	-	DATE OF DISPATCH						2	5	-	0	1	-	1	8				
RLY	E	Co	R	-	TYPE	L	W	S	C	N	-	SHELL. NO.		7	7	1	6	6	-	2	0	1	7	-	1	8

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	171210				171209			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-498				ECBT-493			
Bolster no.	MCF/RBL-1313				MCF/RBL-1312			
Axle No	17B-3523		17B-3162		17A-7609		17W-8552	
Wheel Dia	917.416	917.486	917.462	917.548	917.401	917.522	917.441	917.550
Wheel Disc No	TZ05-17 11823-70Q1	TZ05-17 11824-70Q1	TZ05-17 11821-70Q1	TZ05-17 13178-70L5	TZ05-17 11630-70L8	TZ05-17 11627-70L8	TZ06-17 20830-70Q1	TZ05-17 18726-70L4
R.B. Nos.	01-17 35352	01-17 35305	02-17 39880	03-17 51742	02-17 40192	01-17 33859	02-17 65531	01-17 34333
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-06-17- 5101-58-138	CMGBD-03-17- 5100-27-91	CMGBD-06-17- 5101-58-123	CMGBD-03-17- 5100-23-204	CMGBD-06-17- 5101-58-134	CMGBD-03-17- 5100-23-38	CMGBD-06-17- 5101-58-131	CMGBD-03-17- 5100-23-98
Compressed Ht. at Tested Load	515	472	516	471	516	472	515	472
Alignment deviation (mm)	08	12	06	09	08	12	07	08

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	338,324	327,355
2.	Primary outer Spring	CMGBD	09-17 (317,341,315,412)	09-17 (321,420,360,451)
3.	Primary Inner Spring	CMGBD/CMFSK	08-17 (207,89,450),08-17-1101-204	08-17-222,05-17 (89,291,116)
4.	Primary Damper	KNORR	09-17(11776,11888,11871,11779)	09-17 (12063,11539,11558,11793)
5.	Secondary Damper	GEREP	KW-17-2017-301550739	KW-17-2017-301550739
6.	Lateral Damper	SV	06-17 019524	06-17 019524
7.	Brake Cylinder	FAV	M17-069,M17-062,L17-210,L17-288	L17-113,L17-088,L17-085,L17-111
8.	Brake Caliper	FAV	M17172B,M17246B,M17169B,M17171B,	L17451B,L17449B,L17448B,L17450B,
9.	Brake Disc	KBI	24114597-0006-38-17, 24114593-0011-38-17, 24114597-0002-38-17, 24114593-0012-38-17,	24115164-0002-41-17, 24115164-0003-41-17, 24115164-0028-41-17, 24115164-0030-41-17,
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA/JI		
14.	Ball joint traction Lever	GMT		
15.	Ball joint traction centre	S-BLOC		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	MTS		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON/SARITA		

Signature of SSE/Bogie/QC





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**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)	L17044B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17105557B
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-Sunrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Sunrest ind.kolkata	
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 AGF Pvt. Ltd, Kolkata	
15.	Hopper Window	M/s Aikon techno.pvt.ltd salon	
16.	Side panel	M/S-Deco mica ahemdabad	
17.	Roof ceiling	M/s G.I. natural fiber kolkata	
18.	Door way ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors	M/s JBM Faridabad	
20.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
21.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
22.	Bio Tank	M/s RAIL TECH KXH	
23.	Auxiliary Water Tank	M/s Manoj eng.mohali	
24.	Under Slung Water Tank( 2X685L)	M/s Amit eng. Baddi	
25.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
27.	Lavatory Doors	M/s Kalsi Fabrication LDH	
28.	Seat & Berth	M/s Sukata PANCHKULA	
29.	Snack Table	M/s Gandhi enterprizes Jalandhar	

  
SSE/QC/MCF/RBL

मुख्यता विभाग  
रेलवे, रायबरेली (बालगंज)



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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 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 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 सहायक यांत्रिक अभियंता / गुणवत्ता विभाग रेडिंकड, रायबरेली (लखनऊ)	AME/QC/MCF/RBL जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता / गुणवत्ता विभाग आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL जोगिन्दर सिंह Joginder Singh 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

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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	17233/C
RAILWAY	ECoR	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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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : <b>ISG</b> On Board Sr no : <b>17-10-0048</b> HT Panel Sr no : <b>17-10-0029</b>	EDTS 333, Rev` 01'Am-1	<b>01</b>
02.	Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b> Sr no PA: <b>2017/045</b> Sr no.1 : <b>16070241</b> Sr no.2 : <b>16070205</b> Sr no.CPA: <b>2017/07/035</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
03.	Emergency light system for EOG type coaches (AEL), Make : <b>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
04.	Passenger Alarm Cum Indication Light (PACIL) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	<b>02</b>
05.	Fitment of Switch Plate Assly(Cabin Side) Make : <b>RECORD</b>	EDML 086,Rev-03, ITEM-01	<b>10</b>
06.	Fitment of Switch Plate Assly Corridor Side),Make : <b>SSK</b>	EDML 086, Rev 03, ITEM-02	<b>10</b>
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>CONCORD</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
08.	Cabin, Corridor, doorway and Gangway Lights. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>26</b>
09.	Lavatory Light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	<b>04</b>
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : <b>AGASTYA</b>	CC76289 & CC76443	<b>10</b>

**Senior Section Engineer**  
**Quality control / Electrical**  
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11.	Battery fuse box +ve Make : <b>AECO</b>	LW 71001,Alt-F	<b>01</b>
12.	Battery fuse box -ve Make : <b>SSK</b>	LW 71002,Alt-F	<b>01</b>
13.	Regulated battery charger Make : <b>AUTOMETER</b> Sr no: <b>BCH061508083</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
14.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>PAN-17016508</b>	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	<b>01</b>
15.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	<b>01 set</b>
16.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>01 set</b>
17.	Wheel set earthing equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
18.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>33/17/896</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>SOUTHERN</b> Lug date : <b>11/2017</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>HITECH</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता निबंधन  
आधुनिक रेल डिब्बा कारखाना / लखनऊ / रायबरेली  
S.S.E/EL/QC/M.C.F./LJ/RBL

वरिष्ठ विद्युत अभियन्ता  
रेल कोच फैक्टरी, रायबरेली, लखनऊ  
Sr. Electrical Engineer / RCF / RBL / Lucknow

