



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/ 505

Coach No.	1	7	2	3	0	/	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	7	-	2	0	1	7	-	1	8
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1. Railway Board's Order No. : 2017/M(C)/142/2 Dated- 21.09.2017
2. Tare Weight of Coach : 41.24 Tones
3. 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) 1105 (NPPE) 2) 1095 (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 121 NPP END 121
		Complete M/S Manjit techno fab raebareli	
2.	Side wall	M/S MCF/RBL	RH 77167 LH 77167
3.	End wall	PP END M/S E.c.blades & tool pvt. Ltd CDG	PP END 77167 NPP END 77167
		NPP END M/S E.c.blades & tool pvt. Ltd CDG	
4.	Roof	M/S TI metal forming thiruninravur	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 2349 NPP END 2365
6.	Buffers	N.A.	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<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	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 BERGER	SUPPLY & APPLY	90/89
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

रजिस्ट्रार विभाग
रेलवे, रायबरेली (उत्तर प्रदेश)



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COACH.NO	1	7	2	3	0	/	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	7	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	171207				171208			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-494				ECBT-497			
Bolster no.	MCF/RBL-1323				MCF/RBL-1320			
Axle No	17A-7932		17B-3163		17B-3142		17A-7469	
Wheel Dia	917.459	917.538	917.424	917.513	917.420	917.507	917.460	917.559
Wheel Disc No	TZ05-17 12377-70K2	TZ05-17 19245-7PL2	TZ05-17 12960-70L4	TZ05-17 12958-70L4	TZ05-17 12898-70L4	TZ05-17 12900-70L4	TZ05-17 14806-7PK2	TZ05-17 12016-70L0
R.B. Nos.	01-17 33684	01-17 35192	01-17 33699	01-17 35215	01-17 33670	01-17 33665	01-17 33800	01-17 34917
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-04-17- 5101-32-08	CMGBD-03-17- 5100-23-14	CMGBD-06-17- 5101-58-47	CMGBD-03-17- 5100-23-12	CMGBD-06-17- 5101-58-152	CMGBD-03-17- 5100-23-174	CMGBD-06-17- 5101-58-149	CMGBD-03-17- 5100-27-237
Compressed Ht. at Tested Load	516	471	515	471	516	469	516	469
Alignment deviation (mm)	07	08	09	09	09	09	09	12

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	360,359	332,322
2.	Primary outer Spring	CMGBD	08-17 (75,235,813,236)	05-17-646, 09-17(366,391,124)
3.	Primary Inner Spring	CMFSK	05-17 (882,561,563,341)	05-17-555,09-17 (364,529,509)
4.	Primary Damper	KNORR	07-17(10001,10108),09-17(12154,11248)	09-17 (10097,11249,11253,11264)
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	M17-335,M17-251,M17-254,M17-341	M17-111,M17-281,M17-060,M17-104
8.	Brake Caliper	FAV	M17637B, M17640B, M17635B, M17638B,	M17247B, M17170B, M17245B, M17248B,
9.	Brake Disc	KBI	24101654-0026-19-17, 24101654-0036-19-17, 24101654-0030-19-17, 24101654-0029-19-17,	24101656-0013-19-17, 24101656-0030-19-17, 24101658-0010-20-17, 24101658-0009-20-17,
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	GMT/PRAG		
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	MTG		
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/S-BLOC		
20.	Fork make	EMSON		

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)	L17036B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17105544B
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 SSIPL Mumbai	
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 1,3	M/s sukata CDG	
20.	Body Side Doors 2,4	M/s JBM Faridabad	
21.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
22.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
23.	Bio Tank	M/s RAIL FAB KXH	
24.	Auxiliary Water Tank	M/s Manoj eng.mohali	
25.	Under Slung Water Tank(2X685L)	M/s Amit eng. Baddi	
26.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
27.	Controlled Discharge Tap	M/s Kalsi Pumps Jalandhar	
28.	Lavatory Doors	M/s Kalsi Fabrication LDH	
29.	Seat & Berth	M/s Sahyog auto pune	
30.	Snack Table	M/s Gandhi enterprizes Jalandhar	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (जलानांज)



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

सहायक यंत्रिक अभियंता / मुख्य
रेल डिब्बा कारखाना, रायबरेली (रायबरेली)

G.S. Pandey
सहायक यंत्रिक अभियंता / मुख्य
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory

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

LSCN - 525

DOC NO.: MCF/RBL/QEF/8001

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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	17230/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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On Board Sr no : 2017-08-194 HT Panel Sr no : 2017-10-255	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 6500/10/17 Sr no.1 : 284815 Sr no.2 : 284816 Sr no.CPA: 2017/10/6463	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.	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 : RECORD	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD	EDML 086, Rev 03, ITEM-02	10
07.	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.	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: DR AUTO	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


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11.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : ISG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HI-REL Sr no: 16110618	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016498	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev` e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : ELECOS	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 12/17/409	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : SOUTHERN Lug date : 11/2017	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	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL
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गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / लखनऊ / रायबरेली
S.S.E/Elct-QC/M.C.F./LUR

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

