

LSCN4-108



Modern Coach Factory Raebareilly

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/2018-19/1089

RLY	N	R	-	Coach No.	1	9	1	2	3	3	/	C	DATE OF DISPATCH	2	5	-	0	1	-	1	9	
DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	3	3	3	-	2	0	1	8	-	1	9

1. Railway Board's Order No. : 2018/M(C)/142/2 Dated-28-11-2018
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) 1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S-DTL,PUNE	27
	Front Part	NPP END M/S-DTL,PUNE	27
	Complete	M/S-DTL,PUNE	27
2.	Lav. side wall	M/S-RAIL FAB, KAPURTALA	LAV.1 - LAV.2 -
		M/S-RAIL FAB, KAPURTALA	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	259/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	259/02
4.	End wall	PP END M/s- AMIT ENG.MOHALI	--
		NPP END M/s- AMIT ENG.MOHALI	--
5.	Roof	M/S- ECBT, CHANDIGARH	26
6.	Centre Buffer Coupler	M/S- DELLNAR INDIA PVT LTD.	PP END 3041 NPP END 3008

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	06 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 -GS	Supply & apply	91/90
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओका, रायबरेली (जालगाँव)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/1089

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/1000																								
Coach No.		1	9	1	2	3	3	/	C	-	DATE OF DISPATCH				2	5	.	0	1	.	1	9		
RLY	N	R	-	-	Type	L	W	S	C	N	1	Shell No.	8	7	3	3	3	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182567				182568			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1632				ECBT-1378			
Bolster no.	VS-350				VS-342			
Axle No	18 F - 8330 RWF		18 F - 9448 RWF		18 F - 9325 RWF		18 F - 8198 RWF	
Wheel Dia	917.369	917.658	917.379	917.534	917.521	917.628	917.525	917.733
Wheel Disc No	TZ08-18 45552-8RP7	TZ07-18 24326-8RG7	TZ07-18 37516-8RR1	TZ08-18 27641-8QG3	TZ07-17 24798-7RJ3	TZ06-17 20872-7QL1	TZ08-18 45267-8RP8	TZ08-18 45415-8RQ3
R.B. Nos.	04-18 26553	05-18 28319	04-18 24944	04-18 24931	04-18 26046	05-18 39809	05-18 40600	05-18 39241
CT R B 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.	CMFSK12-18- 5101-512-145	CMGBD05-18- 5100-66-435	CMFSK12-18- 5101-512-140	CMGBD05-18- 5100-54-445	CMFSK12-18- 5101-512-141	CMGBD05-18- 5100-64-498	CMFSK09-17- 5101-512-18	CMGBD05-18- 5100-64-444
Compressed Ht. at Tested Load	516	470	515.5	472	514	472	514	472
Alignment deviation (mm)	10	6	10	5	10	6	12	6

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	13493,13489	14115,13495
2.	Primary outer Spring	CMGBD	10-18 1100(119-90,121-119,121-271,121-4)	10-18 1100(121-370,121-189,122-34,31-2716)
3.	Primary Inner Spring	CMGMD	03-18 1101-30 (2791,3010,2738,2355)	03-18-1037-30-2983,03-18 1101-31- (2805,2710,2716)
4.	Primary Damper	KNORR	12-18(47326,47257,47275,47272)	12-18(47484,47269,47278,47816)
5.	Secondary Damper	GEREP	KW 16-2018 301550739	KW16-2018 301550739
6.	Lateral Damper	IAI	01-18 237250	01-18 237242
7.	Brake Cylinder	FAV	M18(024,394,004,394)	M18(437,405,412,026)
8.	Brake Caliper	FAV	N18(491,689,701,703)B	N18(579,578,490,492)B
9.	Brake Disc	KBI/FAV	24168006 0012-49/18,24168006 0013-49/18 24168006 0009-49/18,24168006 0008-49/18	12-18(6746,6747,6487,6486)D133561-300
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	PPI/UK		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	RKFL/PPI/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	201118-1,231218-2,301118-2,301118-1	011218-2,211118-3,311118-4,201118-1
22.	Control Arm Lower	RVE	211118-2,281118-1,321118-3,211118-3	311118-2,261118-4,051118-3,051118-3

Signature of SSE/Bogie/QC





Modern Coach Factory Raebareli

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RLY	N	R	-	Coach No.	1	9	1	2	3	3	/	C	DATE OF DISPATCH	2	5	-	0	1	-	1	9
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DISPATCH TO	Sr.DME/CHG/DLI	Type	L	W	S	C	N	1	Shell No.	8	7	3	3	3	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

SNO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	M18037B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18115581B
4.	Foot Step	M/S- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-KOHNOR INDIA, JUC.	
6.	Floor board	M/S- TWPL, MUMBAI.	
7.	PVC	M/S -ACME INDIA, NDLS.	
8.	Lavatory Inlay	M/S- SEEMA INDIA BHOPAL	
9.	UIC Vestibule (PPE)	M/S-SUNCREST, KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST, KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- COMPETANT ENG. JALANDHAR	
12.	Gangway bridge mounting (NPPE)	M/S- COMPETANT ENG. JALANDHAR	
13.	Body Side Window	M/S- ACME INDIA NDLS	
14.	Emergency Window	M/S- ACME INDIA NDLS	
15.	Hopper Window	M/S- ACME INDIA NDLS	
16.	Side panel	M/S- DGFRP ACME INDIA NDLS	
17.	Roof ceiling	M/S-DGFRE ACME INDIA NDLS	
18.	Door way ceiling	M/S-GFRE ACME INDIA NDLS	
19.	Partition frame	M/S- ACME INDIA NDLS	
20.	Partition pillar	M/S- ACME INDIA NDLS	
21.	Body Side Door	M/S- JVR INDUSTRIES. LDH	
22.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Bio Tank	M/S- RAIL FAB, KXH	
25.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
26.	Under Slung Water Tank(2X685L)	M/S- AMIT ENG. MOHALI	
27.	Under Slung Water Tank (1X685L)	M/S- AMIT ENG. BADDI	
28.	Flexible Faucet	M/S- ACME INDIA NDLS	
29.	Lotah Filler Tap	M/S- ACME INDIA NDLS	
30.	Controlled Discharge Tap	M/S- HINDWARE ,(HSIL LTD) GURGAON	
31.	Lavatory Doors	M/S- ACME INDIA NDLS	
32.	Seat & Berth	M/S- ACME INDIA NDLS	
33.	Snack Table	N/A	

SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडि0का0, रायबरेली (लालगंज)



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
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DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/1089

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2015-16/100																								
RLY	N	R	-	Coach No.	1	9	1	2	3	3	/	C	DATE OF DISPATCH	2	5	-	0	1	-	1	9			
DISPATCH TO		Sr.DME/CHG/DLI			Type	L	W	S	C	N	1	Shell No.	8	7	3	3	-	2	0	1	8	-	1	9
12. MODIFICATION (IF ANY)													: Partition frame & Partition pillar											

12. MODIFICATION (IF ANY)

13. DEVIATION (IF ANY)

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, 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 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.

SSE/QC/MCF/RBL मुख्य निरीक्षक रेल डिब्बा कारखाना, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक अभियंता-II Assistant Mechanical Engineer / Quality-II आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली 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

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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	191233/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



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 : 2017/04/073 HT Panel Sr no : 2017/08/215	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/173 Sr no.1 : 18120134 Sr no.2 : 18120121 Sr no.CPA: 2018/12/150-DR AUTO	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/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: RT VISION	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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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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 : SIGNOTRON Sr no: 01191169	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-1015	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	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 earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 33-18-1299	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 12/18	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

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आउटरीडिंग/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

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