

LSCN-40



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/2018-19/708

RLY	E	Co	R	Coach No.	1	8	2	1	6	9	/	C	DATE OF DISPATCH	2	8	-	1	0	-	1	8			
DISPATCH TO		Sr.CDO/VSKP		Type	L	W	S	C	N	1	Shell No.	8	7	1	7	0	-	2	0	1	8	-	1	9

1. **Railway Board's Order No.** : 2018/M(C)/142/2 Dated-27-08-2018
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) 1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Sidhu ind.corporation KXH 1188
		Complete	NPP END M/S Sidhu ind.corporation KXH 1229
2.	Lav.side wall	MCF/RBL (CONTRACTOR V4U)	87170
3.	Side wall	MCF/RBL (CONTRACTOR V4U)	LAV.1 25 LAV.2 26
		LH SIDE	LAV.3 27 LAV.4 28
		RH SIDE	145
4.	End wall	MCF/RBL (CONTRACTOR V4U)	145
		PP END	M/S AMIT ENG. ---
		NPP END	M/S AMIT ENG. --
5.	Roof	MCF/RBL	60
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 8375 NPP END 8476

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 -BERGER	Supply & apply	91/89
2.	Insulation			Satisfactory	

Signature
SSE/QC/MCF/RBL
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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	E	Co	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	7	0	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181635				181636			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-2030				AML-039			
Bolster no.	APEX-311				APEX-297			
Axle No	18 E- 8396RWF		17 B-3178 RWF		18 E- 8440RWF		18 E- 8590 RWF	
Wheel Dia	917.506	917.596	917.508	917.604	917.501	917.584	917.394	917.537
Wheel Disc No	TZ07-18 32808-8QP5	TZ06-18 29731-8QP1	TZ07-18 32676-8RG5	TZ06-18 31270-8RG7	TZ06-18 28615-8QM8	TZ06-18 38590-8QN9	TZ07-18 33585-8RG9	TZ06-18 28698-8QM8
R.B. Nos.	07-18 16543	06-18 13152	07-18 16493	06-18 11121	07-18 16028	06-18 12624	07-18 14259	06-18 10688
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.	CMGBD11-17- 5101-136-149	CMGBD03-18- 5100-41-523	CMGBD11-17- 5101-116-61	CMGBD03-18- 5100-41-603	CMGBD04-18- 5101-50-196	CMGBD03-18- 5100-41-152	CMGBD11-17- 5101-136-151	CMGBD03-18- 5100-41-464
Compressed Ht. at Tested Load	515	472	515	472	516	472	516	472
Alignment deviation (mm)	6	5	6	5	6	6	6	6

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	973,912	974,981
2.	Primary outer Spring	CMFSK	05-17 1100-(42-196,39-198,39-227,39-214)	05-17 1100-(46-174,42-134,42-356,42-132)
3.	Primary Inner Spring	CMGBD	05-18-1101 (56-1141,57-955,57-928,57-927),	05-18-1101 56 (1107,985,1187,1175)
4.	Primary Damper	KNORR	07-18(26482,26487),05-18 19550,07-18 26502	07-18(26528,26483,26527,26505)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	08-18 3382	05-18 3386
7.	Brake Cylinder	KBI	A(8260,7677,7692,8279)K29	A(8278,7691,7695,8271)K29
8.	Brake Caliper	KBI	A(6569,6599,6582,6564)-29	A(6566,6583,6585,6565)-29
9.	Brake Disc	FAV	24158713 0008-36/18,24158714 0006-36/18 24158707 0057-36/18,24158709 0014-36/18	24158713 0047-36/18,24158713 0039-36/18 24158713 0045-36/18,24158713 0044-36/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	S-BLOCK		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	RVE,100918-2,120918-1,110918-1	110918-2,120918-1,110918-2,RVE
22.	Control Arm Lower	RVE	RVE,070918-2,070918-2,RVE	040918-3,030918-4,070918-2,150918-1

Signature of SSE/Bogie/QC



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DISPATCH TO	Sr.CDO/VSKP	Type	L	W	S	C	N	1	Shell No.	8	7	1	7	0	-	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 KBI Faridabad. New Delhi	1540 34/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018H5887
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
6.	Floor board	M/S TWPL MUMBAI	
7.	PVC	M/s ACME INDIA NDLS	
8.	Lavatory Inlay	M/s OASIS INDS. JAGADHARI	
9.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
11.	Gangway bridge mounting (PPE)	M/s MAHAVEER METAL KXH	
12.	Gangway bridge mounting (NPPE)	M/s MAHAVEER METAL KXH	
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 ACME INDIA NDLS	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way ceiling	M/s 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 LDH	
22.	Vestibule Door(PPE)	M/s-JBM IND FARIDABAD	
23.	Vestibule Door(NPPE)	M/s-JBM IND FARIDABAD	
24.	Bio Tank2,,4	M/s M.K. METAL	
25.	Bio Tank1,3	M/s FLASH FORGE	
26.	Auxiliary Water Tank	M/s AMIT . mohali	
27.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
28.	Under Slung Water Tank (1X685L)	M/s AMIT ENG . . MOHALI	
29.	Flexible Faucet	M/s ACME INDIA NDLS	
30.	Lotah Filler Tap	M/s ACME INDIA NDLS	
31.	Controlled Discharge Tap	M/s HINDWARE ,(HSIL LTD) GURGAON	
32.	Lavatory Doors	M/s ACME INDIA NDLS	
33.	Seat & Berth	M/s ACME INDIA NDLS	
34.	Snack Table	N/A	

SSE/QC/MCF/RBL

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रेलवे कारखाना



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DISPATCH TO		Sr.CDO/VSKP		Type	L	W	S	C	N	1	Shell No.	8	7	1	7	0	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY) : Partition frame & Partition pillar

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.COM/MCF/RBL

वॉरंटी अनु 0 अभियंता
गुणवत्ता विभाग
रेडिओ कार, रायबरेली (न्यायार्थ)

सहायक - रायबरेली गुणवत्ता-1
Assistant Mechanical Engineer / Quality.1

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रयन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
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 NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	182169/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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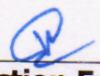
DATE:18.01.2017

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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 : 2017-08-224 HT Panel Sr no : 2017-10-275	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/034 Sr no.1 : 18070236 Sr no.2 : 18070320 Srno.CPA: 2018/09/078	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: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK	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.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: ELECTROWAVES LTD.	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 LHBCN(80-BERTHER)Coaches Make : INTRA ELECT.	CC76289 & CC76443	10


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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : IC ELECTTRICAL. Sr no: IC/UVC/08/18/0144	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017707	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 : MAA LAXMI INDUSTRIES	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 : KNORR Sr no : 0118135179	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 08/18	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
रायबरेली/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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