



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/2019-20/463

RLY	E	C	R	-	Coach No.	1	9	5	8	5	8	/	C	DATE OF DISPATCH	1	5	-	0	7	-	1	9
-----	---	---	---	---	-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH TO	Sr.DME/C&W/DNR	Type	L	W	S	C	N	1	Shell No.	9	7	2	3	2	FUR.NO.	LSCNG-241
-------------	----------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---------	-----------

1. Railway Board's Order No. : 2019/M(C)/142/2, Dated-03-06-2019
2. Tare Weight of Coach : 41.24 Tones
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping : 80 (c) Luggage : NIL
4. Special features:

S NO	DESCRIPTION	MAKE/SUPPLIER
A.	Epoxy flooring in lavatory	M/S-ACME INDIA NDLS
B.	Anti slip friendly Grab Bar	M/S-ACME INDIA NDLS
C.	Provision of Health Faucet in lavatories	M/S-ACME INDIA NDLS
D.	Washbasin counter Top (Corian of Duport or Montelli)	M/S-ACME INDIA NDLS
E.	GFRE ceiling instead of NPTC	M/S-ACME INDIA NDLS
F.	DGFRP panels instead of LP panels	M/S-ACME INDIA NDLS
G.	Honey Comb partition frame with DGFRP sheet instead of FRP sheet	M/S-ACME INDIA NDLS
H.	Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018	M/S-ACME INDIA NDLS

5. 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) 1102 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- PENNAR INDS. HYD.	--
	Front Part	NPP END M/S- PENNAR INDS. HYD.	--
	Complete	MCF/RBL	--
2.	Lav. side wall	M/S- MINDAS GUJRAT	97232
		M/S- MINDAS GUJRAT	LAV.1 - LAV.2 -
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	LAV.3 - LAV.4 -
		RH SIDE MCF/RBL (CONTRACTOR V4U)	41/01
4.	End wall	PP END M/s- RSM MOHALI	41/02
		NPP END M/s- RSM MOHALI	--
5.	Roof	MCF/RBL	--
6.	Centre Buffer Coupler	M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD.	13
		PP END 9640 NPP END 9845	

7. 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	08 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

8. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1.	Paint	P.U	M/s -VIBGYOR	Supply & apply	88/87	22.06.19
2.	Insulation			Satisfactory		

Signature
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेलडिप्टा, रायबरेली (लासगंज)



MCF/RBL



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/2019-20/463

RLY	E	C	R	Coach No.	1	9	5	8	5	8	/	C	-	DATE OF DISPATCH	1	5	0	7	2	0	1	9
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	SR.DME/C&W/DNR	Type	L	W	S	C	N	1	Shell No.	9	7	2	3	2	FUR.NO	LSCN-G-241
----------	----------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	--------	------------

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190980				190979			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-LS5-1020				MCF/RBL-LS5-1019			
Bolster no.	AMIT-220				AMIT-280			
Axle No	19 P- 2496 RWF		19 P- 2916 RWF		19 P- 2338 RWF		19 P- 2070 RWF	
Wheel Dia	917.661	917.667	917.565	917.669	917.56	917.518	917.641	917.633
Wheel Disc No	TZ 05-18 23670-8PS6	TZ 05-18 23660-8PP7	TZ 02-19 25375-9MH5	TZ 12-18 18479-8WO4	TZ 12-18 19515-8WK0	TZ 07-18 36700-8PR4	TZ 06-18 27083-8PS4	TZ 05-18 23672-8PQ6
R.B. Nos.	02-19 03134	03-19 36545	02-19 04848	02-19 03339	02-19 04177	02-19 04461	02-19 03196	02-19 04396
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO. Sr.NO.19-06 1918	TAYAL & CO. Sr.NO.19-06 1873	TAYAL & CO. Sr.NO.19-06 1907	TAYAL & CO. Sr.NO.19-06 1890

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12515,12516	12514,12365
2.	Primary outer Spring	CMRSK	06-16 07W(338,985,606,165)	06-16 07W(607,410,728,200)
3.	Primary Inner Spring	CMFSK	05-19 1036-559(46,47,48,1)	05-19 1036-559(3,17,58,26)
4.	Primary Damper	KONI	03-19 (01059,00711,01069,00803)	03-19 (00790,01049,0334,00888)
5.	Secondary Damper	IAI	06-19 (257022,256830)	06-19 (256906,257017)
6.	Lateral Damper	GABRIEL	11-18 1008	11-18 1015
7.	Brake Cylinder	FAV	(B19-218,C19-521,D19-821)	(C19-202,536,649,D19-076)
8.	Brake Caliper	FAV	(D19-325,347,E19-773,775)B	(D19-376,373,B19-809,D19-811)B
9.	Brake Disc	FAV	06-19(5627,5629,6143,6542)133561-300-1	10-18 (1400,1397)06-19(6541,5628)133561-300-1
10.	Ball Joint Control Arm	BASANT/AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19 B 1821,06-19 A 10053	06-19 A 10082,06-19 A 10140
17.	Check Valve	KNORR	03-19 17588	02-19 16384
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	310119-2,020219-1,RVE,050219-4	180119-1,RVE,180119-1,020219-1
22.	Control Arm Lower	RVE	280119-3,RVE,20119-2,280119-3	201119-2,280119-3,RVE,280119-3
23.	Phonic Wheel	KNORR	K-03-19	K-03-19

Signature of SSE/Bogie/QC



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/2019-20/463

RLY

E

C

R

-

Coach No.

1

9

5

8

5

8

/

C

DATE OF DISPATCH

1

5

-

0

7

-

1

9

DISPATCH TO

Sr.DME/C&W/DNR

Type

L

W

S

C

N

1

Shell No.

9

7

2

3

2

FUR.NO.

LSCNG-241

12. TRACEABILITY OF FURNISHING ITEMS:

12. TRACEABILITY OF FURNISHING ITEMS:

SNO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	D 19075 B
2.	Distribution valve	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	19045566 B
3.	Pull box	M/S- KBI, FARIDABAD	
4.	fiba	M/S- KBI, FARIDABAD	PP-7438/29 NPP-7144/29
5.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/S- SHRI RAM PANEL PUNJAB	
8.	PVC	M/s ACME INDIA, NDLS	
9.	Lavatory Inlay	M/S- SEEMA INDS. BHOPAL	
10.	UIC Vestibule (PPE)	M/S-K.R.P IND. PUNE	
11.	UIC Vestibule (NPPE)	M/S-K.R.P IND. PUNE	
12.	Gangway bridge mounting (PPE)	M/S- HARE KRISHNA COMPONENTS KXH	
13.	Gangway bridge mounting (NPPE)	M/S- HARE KRISHNA COMPONENTS KXH	
14.	Body Side Window	M/s- ACME INDIA NDLS	
15.	Emergency Window	M/s- ACME INDIA NDLS	
16.	Hopper Window	M/s- ACME INDIA NDLS	
17.	Side panel	M/s- ACME INDIA NDLS	
18.	Roof ceiling	M/s- ACME INDIA NDLS	
19.	Door way ceiling	M/s- ACME INDIA NDLS	
20.	Partition frame	M/s- ACME INDIA NDLS	
21.	Partition pillar	M/s- ACME INDIA NDLS	
22.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
25.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
26.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
27.	Under Slung Water Tank(2X685L)	M/s- RAIL FAB KXH	
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- KALSI LUDHIANA	
33.	Seat & Berth	M/s- ACME INDIA NDLS(DUREABLE IND.)	
34.	Snack Table	N/A	

[Signature]
SSE/QC/MCF/RBL
रेडिओ, रायबरेली (लागंज)





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/2019-20/463

RLY	E	C	R	-	Coach No.	1	9	5	8	5	8	/	C	DATE OF DISPATCH	1	5	-	0	7	-	1	9
DISPATCH TO		Sr.DME/C&W/DNR			Type	L	W	S	C	N	1	Shell No.			9	7	2	3	2	FUR.NO.		LSCNG-241

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

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

16. 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 गुणवत्ता विभाग रेडिओ, रायबरेली (सालगंज)	SME/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.CQM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

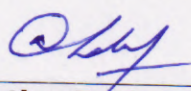
PAGE 1 OF 3

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	195858/C
RAILWAY	ECR	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
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

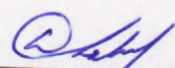
DATE:18.01.2017

PAGE 2 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On Board Sr no : 2019/05/026 HT Panel Sr no : 2019/05/015	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/06/129 Sr no.1 : 19060653 Sr no.2 : 19060692 Srno.CPA: 2019/06/105-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	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: IMT CABLES	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 : DR AUTO	CC76289 & CC76443	09


Senior Section Engineer
Quality control / Electrical
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

PAGE 3 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INDORAIL	LW 71001, Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002, Alt-F	01
13.	Regulated battery charger Make : PI ENGG. Sr no: PI/19060032	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-1959	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 : ACEO	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 : 18-19-659	M/s : FAIVELEY	01 set
19.	110V, 120AH, VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 06/19	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 गुणवत्ता नियंत्रण आर०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आर०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL