



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/2019-20/1038

RLY	C	R	-	Coach No.	1	9	7	2	3	5	/	C	DATE OF DISPATCH	0	9	-	1	1	-	1	9
DISPATCH TO	SSE/STOCK/CR/BB				Type	L	W	S	C	N	1	Shell No.	9	7	3	5	5	FUR.NO.	LSCN-1322		

- Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 03-06-2019
- Tare Weight of Coach** : 41.24 Tones
- Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL
- Special feature:** -1.- 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
2.- RFID(Radio frequency identification) fitted for traceability of coach

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) 1103 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-CHENNAI RADHA ENG.
		NPP END	M/S-CHENNAI RADHA ENG.
	Complete	M/S-CHENNAI RADHA ENG.	67
2.	Lav. side wall	M/S- RAIL TECH PVT.LTD. KXH	LAV.1 - LAV.2 -
		M/S- RAIL TECH PVT.LTD. KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE	MCF/RBL(CONTRACTOR V4U)
		RH SIDE	MCF/RBL(CONTRACTOR V4U)
4.	End wall	PP END	M/S -DTL PUNE
		NPP END	M/S -DTL PUNE
5.	Roof	M/s-ECBT	358
6.	Centre Buffer Coupler	M/s- ESCORTS	PP END 1931 NPP END 1960

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	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

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 -GS	(SUPPLY & APPLY)	90/88	22.10.19
2.	Insulation	Satisfactory				

Signature
SSE/QC/MCF/RBL

बारेली ०३ अगस्त
गुणवत्ता विभाग
#0डि०का०, रायबरेली (लालगंज)



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/2019-20/1038

RLY	C	R	Coach No.	1	9	7	2	3	5	/	C	-	DATE OF DISPATCH	0	9	1	1	2	0	1	9
-----	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	SSE/(STOCK)/CR/BB	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	5	FUR .NO	LSCN-1322
----------	-------------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---------	-----------

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191945				191946			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LSS - 1242				MCF/RBL/LSS - 1241			
Bolster no.	SCI-322				AMIT-534			
Axle No	19 S- 1159	RWF	19 S- 1567	RWF	19 S- 2717	RWF	19 S- 1566	RWF
Wheel Dia	917.441	917.584	917.42	917.526	917.471	917.578	917.439	917.518
Wheel Disc No	TZ 07-19 63487-9RQ4	TZ 06-19 57377-9QK6	TZ 06-19 59322-9QK8	TZ 06-19 69966-9RMO	TZ 06-19 59319-9QK8	TZ 07-19 65897-9RQ0	TZ 06-19 59887-9QJ8	TZ 05-19 51206-9PG9
R.B. Nos.	08-19 23236	08-19 27053	08-19 26734	08-19 27157	08-19 25773	08-19 27439	08-19 27284	08-19 24214
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.19-08 3122	TAYAL & CO. Sr.NO.19-08 3100	TAYAL & CO. Sr.NO.19-09 3718	TAYAL & CO. Sr.NO.19-09 3757

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18432,18572	18583,18588
2.	Primary outer Spring	CMFSK	09-19 1035-078- (1979,2072,2281,2278)	03-19 1035-078- (1959,2300,2224,2305)
3.	Primary Inner Spring	CMFSK	03-19 1101-064 (302,326,348,651)	03-19 1101-064 (633,317,380,659)
4.	Primary Damper	KONIC	03-19 (08361,06130,06384,06018)	03-19 (05991,06042,06164,06141)
5.	Secondary Damper	GB	07-19 (01211,01212)	07-19 (01213,01196)
6.	Lateral Damper	KONI	04-19 01370	04-19 01412
7.	Brake Cylinder	KBI	B(9167,8166,8187,9140)K29	B(9238,8169,8153,9178)K29
8.	Brake Caliper	KBI	B(6154,6242,6229,6231)-29	B(6230,6228,6247,6175)-29
9.	Brake Disc	KBI	24200060 0013-38/19,24200060 0015-35/19 24200060 0004-37/19,24200056 0056-37/19	24200059 0070-38/19,24200060 0012-38/19 24200059 0014-37/19,24200059 0015-37/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	BASANT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	19 B- 4149,19B-4200	19 B- 4139,19B-4206
17.	Check Valve	KNORR	05-2019 18822	07-19 018861
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	250719-2,280719-2,RVE,300719-2	300719-2,250719-1,310719-2,250719-2
22.	Control Arm Lower	RVE	220719-1,280719-2,270719-2,280719-2	280719-2,250719-2,RVE,300719-3
23.	Phonic Wheel	KNOOR	K 09-19 640209	K 09-19 640209

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/2019-20/1038

RLY	C	R	-	Coach No.	1	9	7	2	3	5	/	C	DATE OF DISPATCH	0	9	-	1	1	-	1	9
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH TO	SSE/STOCK/CR/BB	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	5	FUR.NO.	LSCN-1322
-------------	-----------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---------	-----------

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3830 38/19
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	2019 J 9032
			PP-9120/29
			NPP-9224/29
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 PANELS, PUNJAB	
8.	PVC	M/S -RESPONSIVE INDS DELHI	
9.	Lavatory Inlay	M/s- SEEMA INDS. BHOPAL	
10.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
11.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
12.	Gangway bridge mounting (PPE)	M/S-RAKESH IRON STORE, KXH	
13.	Gangway bridge mounting (NPPE)	M/S-RAKESH IRON STORE, KXH	
14.	Body Side Window	M/s-AGF INDS KOLKATA	
15.	Emergency Window	M/s-AGF INDS KOLKATA	
16.	Hopper Window	M/S- SHATABDHI VADODARA + VEDANSH RBL	
17.	Side panel	M/s-WONDER LAMINATE KOLKATA	
18.	Roof ceiling	M/s-ACME INDS DELHI	
19.	Door way ceiling	M/S-JAMM TOOLS RBL	
20.	Body Side Door	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule Door(PPE)	M/S- HANSPAL, KXH	
22.	Vestibule Door(NPPE)	M/S- HANSPAL, KXH	
23.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
24.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
25.	Under Slung Water Tank(2X685L)	M/S- AMIT ENG. MOHALI	
26.	Under Slung Water Tank (1X685L)	M/S- AMIT ENG. MOHALI	
27.	Controlled Discharge Tap	M/s-KAPCO VALES JALANDHAR	
28.	Flexible Faucet	M/s-KAPCO VALES JALANDHAR	
29.	Lotah Filler Tap	M/s- EAUSET PVT LTD GURGAON	
30.	Lavatory Doors	M/S- JR INDS JALNDHAR	
31.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
32.	RFID	M/s-ID TECH SOLUTION GURGAON	Sr.106691-106692

वर्ग 10 अंश 10

SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)



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/2019-20/1038

RLY	C	R	-	Coach No.	1	9	7	2	3	5	/	C	DATE OF DISPATCH	0	9	-	1	1	-	1	9	
DISPATCH TO				SSE/STOCK/CR/BB				Type	L	W	S	C	N	1	Shell No.	9	7	3	5	5	FUR.NO.	LSCN-1322

13. MODIFICATION (IF ANY)

: NIL

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

16WARRANTY:

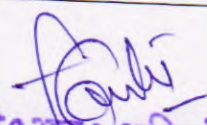
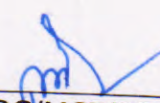
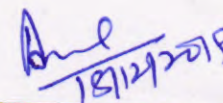
S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the 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 qualityrcrbl@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.

 विरेंद्र सिंह अभियन्ता SSE/QC/MCF/RBL गुणवत्ता विभाग २० डि० कार०, रायबरेली (लालगंज)	 SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	 Dy.COM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli
---	--	--

SCN-1322

SCN-1322

MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना,
रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

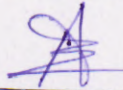
DATE: 18.01.2017

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	197235/C
RAILWAY	CR	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



भारतीय रेल / रायबरेली



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 : AMIT ENGG. On Board Sr no : AE/USBC-1367 HT Panel Sr no : AE/USBC-1382	EDTS 333, Rev `01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/10/0049 Sr no.1 : 5807 Sr no.2 : 5858 Srno.CPA: sr no -2019/10/086-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: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: LIGHT ENGG.	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 : ISGPL	LW 71002,Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: W4K5I 19874	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-1822	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 : INDORAIL	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119030850	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 08/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL for SEE(P)/MCF/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.M./Electrical/MCF/RBL

