



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/2018-19/987

RLY	N	C	R	Coach No.	1	8	3	0	0	0	/	C	DATE OF DISPATCH	3	1	-	1	2	-	1	8
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH TO	Sr.CDO/ALD	Type	L	W	S	C	N	1	Shell No.	8	7	3	6	4	-	2	0	1	8	-	1	9
-------------	------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

- Railway Board's Order No. : 2018/M(C)/142/2 Dated-17-10-2018
- Tare Weight of Coach : 41.24 Tones
- 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) 1103 (NPPE) 2)1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S DTL ancillaries ltd pune 43
		NPP END	M/S DTL ancillaries ltd pune 43
		Complete	M/S DTL ancillaries ltd pune 43
2.	Lav.side wall	M/S Rail FAB . KXH	LAV.1 - LAV.2 -
		M/S Rail FAB . KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE	MCF/RBL (CONTRACTOR V4U) 270
		RH SIDE	MCF/RBL (CONTRACTOR V4U) 270
4.	End wall	PP END	M/s Shivalic fastners pvt.ltd. mohali --
		NPP END	M/s Shivalic fastners pvt.ltd. mohali --
5.	Roof	MCF/RBL	111
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 10752 NPP END 10726

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 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	90/89
2.	Insulation			Satisfactory	

Signature
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेलवे डिप्टी, 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/987

Coach No.	1	8	3	0	0	0	/	C	-	DATE OF DISPATCH	3	1	.	1	2	.	1	8						
RLY	N	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	3	6	4	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182114				182113			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1160				MCF/RBL-1415			
Bolster no.	MCF/RBL-1559				MCF/RBL-1883			
Axle No	18 J-4808 RWF		18 D-9381 RWF		18J-8566 RWF		18J-1788RWF	
Wheel Dia	917.541	917.687	917.611	917.673	917.629	917.581	917.613	917.677
Wheel Disc No	TZ07-17 25247-7RH3	TZ07-17 24829-7RJ3	TZ06-17 23437-7RK0	TZ07-17 27564-7ON7	TZ06-17 21864-7OP4	TZ07-17 25569-7QJ8	TZ07-17 27946-7RJ6	TZ06-17 25564-7RJ8
R.B. Nos.	07-18 17770	07-18 17285	07-18 17931	07-18 16650	05-18 29543	05-18 29684	08-18 19020	08-18 19697
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.	CMFSK09-18-5101-451-199	CMRSK03-18-F08-N73-08Y-692	CMFSK09-18-5101-451-198	CMFSK03-18-F08-N73-08Y-1841	CMFSK09-18-5101-451-211	CMRSK03-18-F08-N73-08Y-1796	CMFSK09-18-5101-451-255	CMRSK03-18-F08-N73-08Y-232
Compressed Ht. at Tested Load	514	472	514	473	516	472	516	468
Alignment deviation (mm)	11	9	13	9	9	4	8	4

10. TRACEABILITY 90F BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1442,1435	1433,1434
2.	Primary outer Spring	CMGBD	10-18 1100 (121-45,122-406,122-371,122-393)	10-18 1100(122-359,122-402,119-755,122-346)
3.	Primary Inner Spring	CMGBD	05-17 1101(37-239,35-238,35-309,35-308)	05-17 1101-36 (-353,367,247,343)
4.	Primary Damper	KNORR	07-18(27793,27784,27773,27769)	07-18(27786,27799,27828,27775)
5.	Secondary Damper	GEREP	16-2018 301550739	16-2018 301550739
6.	Lateral Damper	KNORR	05-18 3395	06-18 4181
7.	Brake Cylinder	FAV	K18-571,L18-(066,063,104)	L18- (097,067,260,105)
8.	Brake Caliper	FAV	M18(371,369,389,391)B	M18(372,370,390,392)B
9.	Brake Disc	FAV	10-18(4780,4779,4820,4814)D133561-300	11-18(4899,5057,4938,4937)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	PPI/UK		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR/ PPI/UK		
20.	Fork make	ASL		
21.	Control Arm Upper	RVE	181018-3,181018-3,111018-2,231018-3	181018-3, 181018-3, 181018-3,200918-2
22.	Control Arm Lower	RVE	RVE,211018-4,261018-3,RVE	161018-3,RVE,180918-1,171018-3

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/2018-19/987

RLY	N	C	R	Coach No.	1	8	3	0	0	0	/	C	DATE OF DISPATCH	3	1	-	1	2	-	1	8				
44. TRACEABILITY OF FURNISHING ITEMS																									
DISPATCH TO		Sr.CDO/ALD		Type	L	W	S	C	N	1	Shell No.		8	7	3	6	4	-	2	0	1	8	-	1	9

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)	L18044B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18105649B
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHNOR INDIA JALANDHER	
6.	Floor board	M/S TWPL Mumbai	
7.	PVC	M/s ACME INDIA NDLS	
8.	Lavatory Inlay	M/s OASIS INDIA NDLS	
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 COMPETENT JALANDHER	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT JALANDHER	
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 FARIDABAD	
23.	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
24.	Bio Tank3 4	M/S RAIL FAB KXH	
25.	Bio Tank1,2	M/S FLASH FORGE VIZAG	
26.	Auxiliary Water Tank	M/s AMIT ENG. mohali	
27.	Under Slung Water Tank(2X685L)	M/s AMIT ENG. mohali	
28.	Under Slung Water Tank (1X685L)	M/s KUTEER EQUIPMENT PUNCHKULA	
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	

Signature
SSE/OC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, 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/2018-19/987

RLY	N	C	R	Coach No.	1	8	3	0	0	0	/	C	DATE OF DISPATCH	3	1	-	1	2	-	1	8			
DISPATCH TO		Sec.CDO/ALD		Type	L	W	S	C	N	1	Shell No.	8	7	3	6	4	-	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 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 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.

 Dy. QM/MCF/RBL गुणवत्ता विभाग आधुनिक रेल डिब्बा कारखाना, रायबरेली (लालगंज)	 AME/OC/MCF/RBL सहायक यंत्रिक अभियंता/गुणवत्ता-II Assistant Mechanical Engineer / Quality-II आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. QM/MCF/RBL जोगिन्दर सिंह 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	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 00
		DATE: 18.01.2017

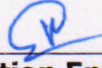
PAGE 1 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	183000/C
RAILWAY	NCR	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 : AMIT ENGG. On Board Sr no : AE/USBC-839 HT Panel Sr no : AE/USBC-807	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/90 Sr no.1 : 18110492 Sr no.2 : 18110216 Sr no.CPA: 2018/12/082-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	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 : 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 : AGASTYA	CC76289 & CC76443	10

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 : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : IC ELECTRICAL Sr no: 11-18-0077	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : LHB-791	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONALS	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 : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 20-18-835	M/s : FAIVELEY	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 : 04/18	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	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
अपरेटिंग/लागू/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