



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/2018-19/1006

RLY	E	R	-	Coach No.	1	9	1	0	0	6	/	C	DATE OF DISPATCH	0	8	-	0	1	-	1	9
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH TO	CWM/LILUAH	Type	L	W	S	C	N	1	Shell No.	8	7	3	5	4	-	2	0	1	8	-	1	9
-------------	------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

- Railway Board's Order No. : 2018/M(C)/142/2, Dated-17-09-2018
- 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) 1105 (NPPE) 2) 1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S- SFPL, MOHALI
		NPP END	M/S- ECBT, CDG
	Complete	MCF/RBL	87354
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	M/s- ECBT, CDG
		RH SIDE	M/s- ECBT, CDG
4.	End wall	PP END	M/s- SFPL, MOHALI
		NPP END	M/s- SFPL, MOHALI
5.	Roof	M/s- PIL	225
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 10742 NPP END 10723

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 -VIBGYOR	Supply & apply	89/87
2.	Insulation			Satisfactory	

SSE
SSE/QC/MCF/RBL
वरिष्ठ अनु अभियंता
गुणवत्ता विभाग
रेडिओ, 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/1006

Coach No.		1	9	1	0	0	6	/	C	-	DATE OF DISPATCH				0	8	.	0	1	.	1	9			
RLY	E	R		-	Type	L	W	S	C	N	1	Shell No.		8	7	3	5	4	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182338				182337			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1303				ECBT-1347			
Bolster no.	AMIT-277				AMIT-294			
Axle No	18 G-3063RWF		18 G-0942 RWF		18 G - 2499 RWF		18G- 2930 RWF	
Wheel Dia	917.407	917.427	917.51	917.536	917.508	917.458	917.513	917.498
Wheel Disc No	TZ05-18 21409-8PQ5	TZ07-18 33719-8RG5	TZ05-18 20307-8PQ1	TZ05-18 23633-8PR8	TZ07-18 43115-8SG0	TZ03-18 20305-8QG4	TZ07-18 38291-8RS3	TZ07-18 42263-8RM5
R.B. Nos.	05-18 13589	06-18 16589	06-18 17120	06-18 16796	05-18 13798	05-18 26722	06-18 17121	06-18 16617
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- 5101-512-67	CMRSK02-18-F08- N12-08Y-383	CMFSK12-18- 5101-512-76	CMRSK05-18-F08- N73-08Y-957	CMFSK12-18- 5101-512-62	CMRSK09-15- F08-08Y-1650	CMFSK12-18- 5101-512-96	CMRSK05-18-N73- 08Y-1717
Compressed Ht. at Tested Load	514.5	467	514	471	513.5	467	515	472
Alignment deviation (mm)	11	10	11	11	12	4	13	4

10. TRACEABILITY 9OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	903,932	961,953
2.	Primary outer Spring	CMGBD	10-18 1100 (122-340,121-193,121-383,121-388)	10-18 1100 (121-353,122-216,122-345,122-362)
3.	Primary Inner Spring	CMGBD	03-18 1101-31- (2723,272828032605)	03-18 1037-30- 2699,03-18 1101-31-2608 03-18 1037-30-2703,03-18 1101-32-2582)
4.	Primary Damper	ESCORT	05-18(6654,6749,6742,6794)	08-18(6795,6790,6779,6793)
5.	Secondary Damper	GEREP	16-2018 301550739	16-2018 301550739
6.	Lateral Damper	SV	01-18 019949	01-18 019949
7.	Brake Cylinder	FAV	L18-(345,257,083,099,)	L18- (100,084,534,551)
8.	Brake Caliper	FAV	M18(415,413,402,404)B	M18(407,405,697,699)B
9.	Brake Disc	FAV	10-18(4695,4694,4700,4695)D133561-300	10-18(4437,4599,4438,6034)D133561-300
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	BONY/AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA/JI		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR,		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	121118-1,130918-2,311118-2,211118-5	141118-1,221118-1,130918-3,21118-1
22.	Control Arm Lower	RVE	221118-2,180918-3,PTC,171118-2	RVE,PTC,PTC191118-3

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/2018-19/1006

RLY	E	R	-	Coach No.	1	9	1	0	0	6	/	C	DATE OF DISPATCH	0	8	-	0	1	-	1	9
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH TO	CWM/LILUAH	Type	L	W	S	C	N	1	Shell No.	8	7	3	5	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)	L 18143 B
2.	Pull box	M/S- KBI FARIDABAD. NEW DELHI	
3.	Distribution valve	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18105725 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/s- EG WOOD BOARD, HYDRABAD	
7.	PVC	M/S- RESPONSIVE IND.DELHI	
8.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
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- HAREKRISHNA INDS. KXH	
12.	Gangway bridge mounting (NPPE)	M/S- HAREKRISHNA INDS. KXH	
13.	Body Side Window	M/S- AJC, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- RAIL TECH. KXH	
16.	Side panel	M/S-SUNGLow PUNJAB LAMINATE	
17.	Roof ceiling	M/S- AB COMPOSIT ,KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR INDUSTRIES ,LDH	
20.	Vestibule Door(PPE)	M/S- KALSI, LUDHIANA	
21.	Vestibule Door(NPPE)	M/S- KALSI, LUDHIANA	
22.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. BADDI	
25.	Under Slung Water Tank (1X685L)	M/s- KUTEER EQUIPMENT,PANCHKULA	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
27.	Lavatory Doors	M/s- KALSI, LDH	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
31.	Snack Table	N/A	

[Signature]
SSE/QC/MCF/RBL
वरि०अनु० अभियंता

गुणवत्ता विभाग
रे०डि०का०, 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/2018-19/1006

RLY	E	R	-	Coach No.	1	9	1	0	0	6	/	C	DATE OF DISPATCH	0	8	-	0	1	-	1	9	
DISPATCH TO	CWM/LILUAH	Type	L	W	S	C	N	1	Shell No.	8	7	3	5	4	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY) : NIL

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 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/OC/MCF/RBL	AME/OC/MCF/RBL	Dy. Chief Quality Manager
वरिष्ठ अधिकारी	आधुनिक रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना, रायबरेली
गुणवत्ता विभाग	Modern Coach Factory, Raebareli	Modern Coach Factory, Raebareli
रेडिओ ०, रायबरेली (लालगंज)		



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	191006/C
RAILWAY	ER	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

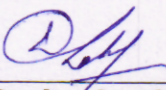
DATE:18.01.2017

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-821 HT Panel Sr no : AE/USBC-800	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/106 Sr no.1 : 18110432 Sr no.2 : 18120136 Sr no.CPA: 2018/12/010-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 : 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 : NEC	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: 10-18-0021	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : LHB-1532	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	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 earthling equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 33-18-1378	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 : 02/18	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
आपरेटिंगका / 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