



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/2018-19/1415

RLY	E	C	O	Coach No.	1	9	2	2	8	9	/	C	DATE OF DISPATCH	2	9	-	0	3	-	1	9				
DISPATCH TO		Sr.CDO/VSKP			Type	L	W	S	C	N	1	Shell No.	8	7	6	2	4	-	2	0	1	8	-	1	9

1. **Railway Board's Order No.** : 2018/M(C)/142/2 Dated-26-03-2019
2. **Tare Weight of Coach** : 41.24 Tones
3. **Carrying Capacity** : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL
4. **Special features-**
 - A. Epoxy flooring in lavatory.
 - B. Anti slip friendly Grab Bar.
 - C. Provision of Health Faucet in lavatories.
 - D. Washbasin counter Top (Corian of Duport or Montelli).
 - E. GFRE ceiling instead of NFTC. (Make- ACME INDIA NDLS)
 - F. DGFRP panels instead of LP panels. (Make- ACME INDIA NDLS)
 - G. Honey Comb partition frame with DGFRP sheet instead of FRP

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	Front Part	PP END M/S-TACPL, CNB
			20/24
		NPP END M/S-TACPL, CNB	20/24
	Complete	M/S-TACPL, CNB	20/24
2.	Lav. side wall	M/S- MIDAS METCONS, GUJRAT	LAV.1 - LAV.2 -
		M/S- MIDAS METCONS, GUJRAT	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	414/01
		RH SIDE MCF/RBL (CONTRACTOR V4U)	414/02
4.	End wall	PP END M/S- P.D. STEEL, PANCHKULA	--
		NPP END M/S- P.D. STEEL, PANCHKULA	--
5.	Roof	M/S- PIL	350
6.	Centre Buffer Coupler	M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD.	PP END 8912 NPP END 8919

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ 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
1.	Paint	P.U	M/s -GS	Supply & apply	91/89
2.	Insulation			Satisfactory	

वरीलप्रमाणित
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओ ४०, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	183179				183180			
Bogie Type	FIAT				FIAT			
Frame no.	AML-061 -(AIR SPIRING)				AML-062 -(AIR SPIRING)			
Bolster no.	AMIT -156				AMIT - 159			
Axle No	19 L - 5003 RWF		18 L - 5080 RWF		18J- 5319 RWF		18J- 1820 RWF	
Wheel Dia	917.56	917.593	917.551	917.596	917.574	917.636	917.586	917.598
Wheel Disc No	TZ 11-18 06650-8WS7	TZ 11-18 05978-8WLO	TZ 04-18 13666-8MW0	TZ 04-18 13661-8MW0	TZ 12-18 19760-8XG8	TZ 12-18 19761-8XG8	TZ 07-18 37464-8RR1	TZ 06-18 27672-8QG7
R.B. Nos.	12-18 27335	01-19 35011	02-19 35837	12-18 25899	12-18 27737	12-18 26660	02-18 35445	01-19 34944
CTR 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
	AVADH RAIL INFRA LTD 05-18-1421	AVADH RAIL INFRA LTD 05-18-1494	AVADH RAIL INFRA LTD 05-18-1412	AVADH RAIL INFRA LTD 05-18-1482

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	239451,238752	239416,238671
2.	Primary outer Spring	CMFSK	01-19 1100-501(24,29,48,255)	01-19 1100-531(329,21,331,259)
3.	Primary Inner Spring	CMFSK	02-19 1101-395(529,71,384,218)	02-19 1101-395(293,461,475,70)
4.	Primary Damper	IAI	01-19 (236956,236902,236416,236254)	01-19 (236526,236178,237010,236310)
5.	Secondary Damper	GEREP	KW16-2018 301550379	KW16-2018 301550379
6.	Lateral Damper	GEREP	KW16-2018 301550559	KW16-2018 301550559
7.	Brake Cylinder	FAV	A19(683,558,006,736)	A19(603,520,441,627)
8.	Brake Caliper	FAV	B19(833,835,863,861)B	B19(558,560,563,561)B
9.	Brake Disc	FAV	24172293 0035-03/19,24172293 0036-03/19 24172293 0033-03/19,24172293 0034-03/19	24172305 0015-05/19,24172305 0019-05/19 24173110 0014-05/19,24173110 0015-05/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	MGN		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR		
17.	Check Valve	KNORR	06-18 A-8081,06-18 A-8097 12-18 15296	06-18 A-7951,06-18 A-7958 12-18 15326
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	051218-1,051218-3,051218-1,051218-3	RVE,071218-1,091218-1,021218-1
22.	Control Arm Lower	RVE	RVE,071218-1,161218-3,061218-2	RVE,061218-1,071218-1,161018-3
23.	Phonic Wheel	KNORR	K - 02-19	K 02-19

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	6	2	4	-	2	0	1	8	-	1	9

12. TRACEABILITY OF FURNISHING ITEMS:

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	B 19118 B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	1902510 B
3.	Pull box	M/S- KBI LTD	
4.	FIBA	M/S- KBI LTD	
5.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	PP/NNP-4981/4898
6.	Decoupling arrangement	M/S- KOHINOOR INDIA JUC.	
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-SUNCREST IND.KOLKATA	
11.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
12.	Gangway bridge mounting (PPE)	M/S- COMPETANT ENG. JUC	
13.	Gangway bridge mounting (NPPE)	M/S- COMPETANT ENG. JUC	
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 Door	M/S- JVR IND, LDH	
23.	Vestibule Door(PPE)	M/S- KALSI, LDH	
24.	Vestibule Door(NPPE)	M/S- KALSI, LDH	
25.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES, GURUGRAM	
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- SHIVALIK FAST, 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	

Rama
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लाबगंज)



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13 MODIFICATION (IF ANY)

:

Partition frame & Partition

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 मुख्यवक्ता विभाग रेडिंक0क0, रायबरेली (लाजगंज)	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. CQM/MCF/RBL उप मुख्य मुखवक्ता प्रबंधक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

67-178

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 00
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
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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	192289/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



Modern Coach Factory Raebareli
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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On Board Sr no : 2018/12/09 HT Panel Sr no : 2018/12/084	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 7657/10/18 Sr no.1 : 297979 Sr no.2 : 297980 Srno.CPA: 7723/10/18-KALSI	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	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: CROMPTON	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: 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 LHBSCN(80-BERTHER)Coaches Make : AGASTYA	CC76289 & CC76443	09

Senior Section Engineer
Quality control / Electrical
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

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : NIC	LW 71001, Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002, Alt-F	01
13.	Regulated battery charger Make : IC ELECTRICALS Sr no: 03-19-0002	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18018111	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 : SIDWAL	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES	EDTS101, REV-C, AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 43-18-1810	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 : 02/19	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 आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL