



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/2019-20/466

RLY	E	C	R	Coach No.	1	9	5	8	5	0	/	C	DATE OF DISPATCH	1	9	-	0	7	-	1	9
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DISPATCH TO	Sr.DME/C&W/DNR	Type	L	W	S	C	N	1	Shell No.	9	7	2	4	8	FUR.NO.	LSCN-1102
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1. **Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 03-06-20192. **Tare Weight of Coach** : 41.24 Tones3. **Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL4. **Special feature:** - 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**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) 1098 (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-PENNAR IND HYD
		NPP END	M/s-PENNAR IND HYD
	Complete	MCF/RBL	97248
2.	Lav. side wall	M/S- MIDAS GUJRAT	LAV.1 - LAV.2 -
		M/S- MIDAS GUJRAT	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- RSM MOHALI
		NPP END	M/S- RSM MOHALI
5.	Roof	M/s-KANSAL	07
6.	Centre Buffer Coupler	M/S- SANROK ,FARIDABAD	PP END 12972 NPP END 12973

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	09 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	89/88	02.07.19
2.	Insulation			Satisfactory		

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओकार, रायबरेली (जालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190568				190567			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1786				VS-1777			
Bolster no.	AMIT-639				AMIT-621			
Axle No	19 P - 2184 RWF		19 P - 2781 RWF		19 P - 1350 RWF		19 P - 1435 RWF	
Wheel Dia	917.682	917.676	917.714	917.682	917.705	917.69	917.659	917.653
Wheel Disc No	TZ 02-19 25376-9MH5	TZ 05-18 48749-9PF3	TZ 12-18 13255-8WM1	TZ 04-19 39751-9OG4	TZ 04-19 34915-9MJ3	TZ 05-19 48745-9PF3	TZ 04-19 39750-9OG4	TZ 05-19 48748-9PF3
R.B. Nos.	02-19 03341	02-19 03228	02-19 05135	02-19 00873	02-19 01726	03-19 36181	02-19 04061	02-19 01486
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	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMAFJ05-19-5101-75	CMRSK05-18-F08-N73-08Y-827	CMAFJ05-19-5101-59	CMRSK05-18-F08-N73-08Y-1209	CMAFJ05-19-5101-39	CMRSK05-18-F08-N73-08Y-568	CMAFJ05-19-5101-37	CMRSK05-18-F08-N73-08Y-568
Compressed Ht. at Tested Load	514	470	514	472	515	470	515	470
Alignment deviation (mm)	15	8	15	8	20	6	20	6

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	16954,15880	15898,16938
2.	Primary outer Spring	CMFSK	05-19 1036-565(756,740,576,668)	05-19 10.36-565(559,872,750,729)
3.	Primary Inner Spring	CMFSK	06-19 1037-942(54,28,60,75)	06-19 1037-942(70,66,57,81)
4.	Primary Damper	KONI	03-19 (02494,02471,02484,02305)	03-19 (02478,02510,01310,00356)
5.	Secondary Damper	IAI	06-19 (256996,256957)	06-19 (256875,257100)
6.	Lateral Damper	IAI	02-19 251570	02-19 241832
7.	Brake Cylinder	KBI	B(4295,3547,3580,4305)K-29	B(3618,2904,3567,4309)K-29
8.	Brake Caliper	KBI	B(1858,1964,1986,1854) -29	B(1238,1359,1866,1857) -29
9.	Brake Disc	FAV	09-18 (1191,618,619,1190)D-133561-300	09-18 (1189,1520,1031,1192)D-133561-300
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	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	311218-2,311218-2,010119-2,RVE	111218-2,010119-2,010119-2,180219-1
22.	Control Arm Lower	RVE	RVE,010119-010119-2,200319-2	200319-2,200219-3,010119-2,250219-3
23.	Phonic Wheel	KNORR	K-05-19	K-05-19

Anel

Signature of SSE/Bogie/QC



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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	F 19111B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	19065644 B
4.	Foot Step	M/S- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER INDS, MUMBAI	
6.	Floor board	M/S-SHREE RAM PNL GOVINDGARH	
7.	PVC	M/S-RESPONSIVE INDS DELHI	
8.	Lavatory Inlay	M/s- SEEMA INDS. BHOPAL	
9.	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
10.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
11.	Gangway bridge mounting (PPE)	M/S- HARE KRISHNA COACH PRODUCT KXH	
12.	Gangway bridge mounting (NPPE)	M/S- HARE KRISHNA COACH PRODUCT KXH	
13.	Body Side Window	M/S-FP INDS KOLKATA	
14.	Emergency Window	M/S-AGF INDS KOLKATA	
15.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Side panel	M/S-ACME INDS DELHI	
17.	Roof ceiling	M/S-EXCEL INDS KALKATA	
18.	Door way ceiling	M/S-RAJA INDS KHANA	
19.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
20.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
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- RAIL FAB KXH	
25.	Under Slung Water Tank (1X685L)	M/S- AMIT ENG. MOHALI	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. U.K	
27.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
28.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
29.	Lavatory Doors	M/S-J.R INDS JALANDHAR	
30.	Seat & Berth	M/S - OVPL MUMBAI	
31.	Snack Table	N/A	

(Signature)
SSE/QC/MCF/RBL
वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)



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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

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 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/QC/MCF/RBL गुणवत्ता विभाग रेडि०का०, रायबरेली (लाहौगंज)	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy. COM/MCF/RBL Joginder Singh उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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LSCN-1102

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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	195850/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





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 19/06/TCS/MCF/3436/355/0038 HT Panel Sr no : 19/06/TCS/MCF/3436/355/0038	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/06/079 Sr no.1 : 19060449 Sr no.2 : 19060478 Srno.CPA: 2019/06/167-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: DR AUTO	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
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : RADIANT	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: W4K5E 19044	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-1956	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 : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 17/19/644	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 : NIL	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	AWM(ELECT.)/MCF/RBL
वरिष्ठ अनुभाग अभियन्ता	SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

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