



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/2019-20/729

RLY	N	F	R	Coach No.	1	9	6	2	8	6	/	C	DATE OF DISPATCH	1	8	-	0	9	-	1	9
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DISPATCH TO	Sr.DME/GHY	Type	L	W	S	C	N	1	Shell No.	9	7	1	7	8	FUR.NO.	LSCN-1200
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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) 1104 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- E.C.BLADES	06
		NPP END M/S- SIPL	05
	Complete	MCF/RBL(CONTRACTOR V4U)	97178
2.	Lav. side wall	M/S- MIDAS GUJRAT	LAV.1 - LAV.2 -
		M/S- MIDAS GUJRAT	LAV.3 - LAV.4 -
3.	Side wall	MCF/RBL(CONTRACTOR V4U)	199/01
		MCF/RBL(CONTRACTOR V4U)	199/02
4.	End wall	PP END M/S -SIS	---
		NPP END M/S -SIS	---
5.	Roof	M/S-KANSAL	36
6.	Centre Buffer Coupler	M/S- SANROK ENT.	PP END 13468 NPP END 13419

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 - BERGER	SUPPLY & APPLY	90/88	30/08/19
2.	Insulation			Satisfactory		

वसिष्ठ अश्विनी
SSE/QC/MCF/RBL
रेडिओ, रायबरेली (नालगंज)



MODERN COACH FACTORY, RAEBARELI

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	196067				196068			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-2340				ECBT-875			
Bolster no.	VS-451				VVS-452			
Axle No	19 R - 3318 RWF		19 R - 3247 RWF		19 R - 1405 RWF		19 R - 3778 RWF	
Wheel Dia	917.567	917.629	917.504	917.729	917.574	917.6	917.657	917.632
Wheel Disc No	TZ 03-19 29794-9MJ5	TZ 04-19 36171-90F0	TZ 05-19 44064-90I0	TZ 04-19 36644-90F7	TZ 03-19 30964-9MK5	TZ 03-19 29248-9MI6	TZ 05-19 46569-9PJ3	TZ 05-19 41703-1PN3
R.B. Nos.	07-18 41997	07-18 41663	02-18 17138	07-18 41867	189,324,226,38	07-18 41305	05-18 26892	05-18 29681
CT R B Make	SKF		SKF		SKF		SKF	

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.	CMFSK05-19- 5101-551-183	DN16M-1429	CMFSK05-19- 5101-551-82	DN16M-1476	CMFSK05-19 5101-551-106	DN16M 1466	CMFSK05-19-5101- 551-118	DN16M-1495
Compressed Ht. at Tested Load	516	471	516	472	512.6	471	511.5	470
Alignment deviation (mm)	13	14	10	14	9	12	8	12

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12502,12616,	12495,12500
2.	Primary outer Spring	CMFSK	07-19 1100(398,278,141,61)	07-19 1100-58(371,331,237,315)
3.	Primary Inner Spring	CMFSK	05-19 1101-64(5,749,119,86)	05-19 1101-64(105,104,399,123)
4.	Primary Damper	KONI	03-19 (03637,01542,03733,01552)	03-19 (00661,00544,02475,04451)
5.	Secondary Damper	IAI	07-19(263501,263372)	07-19(263541,263437)
6.	Lateral Damper	KONI	07-19 00408	07-19 00178
7.	Brake Cylinder	FAV	F19(037,069,507,479)	E19(475,495,102,386)
8.	Brake Caliper	FAV	F19(679,677,1790,1792)B	E19(1808,1806,678,680)B
9.	Brake Disc	KBI	24193654 0061-29/19,24193654 0060-29/19 24193661 0061-30/19,24193652 002528/19	24193652 0022-29/19,24193654 0009-28/19 24193656 0069-29/19,24193656 0029-09/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
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	PPI		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	301,109,182,546	189,324,226,38
22.	Control Arm Lower	SF	528,134,228,11	252,118,SF,153
23.	Phonic Wheel	KNORR	K-07-19 640209	K-07-19 640209

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)	E19039B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	19045710B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER INDS, MUMBAI	
6.	Floor board	M/s- SHRI RAM PANELS	
7.	PVC	M/S - RESPONSIVE IND.MUMBAI	
8.	Lavatory Inlay	M/s- SEEMA INDS. BHOPAL	
9.	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KXH	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KXH	
13.	Body Side Window	M/s -FP INDS, KOLKATA	
14.	Emergency Window	M/s -AJC INDS, KOLKATA	
15.	Hopper Window	M/S- VEDANSH RBL	
16.	Side panel	M/S-WONDER LAMINATE KOLKATA	
17.	Roof ceiling	M/S-ACME INDS DELHI	
18.	Door way ceiling	M/s -JAMM TOOLS RBL	
19.	Body Side Doors 1,3	M/S- JBM INDUSTRIES, FARIDABAD	
20.	Body Side Doors 2,4	M/S- SUKATA INDS, CDG	
21.	Vestibule Door(PPE)	M/S- HANSPAL TRADERS, KXH	
22.	Vestibule Door(NPPE)	M/S- HANSPAL TRADERS, KXH	
23.	Bio Tank with pressurized flushing	M/s- VEEPEE ENG.	
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- AGMECO PVT LTD U.K	
28.	Health Faucet	M/s- KAPCO VALES JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALES JALANDHAR	
30.	Lavatory Doors	M/S- KALSI, LUDHIYANA	
31.	Seat & Berth	M/s- TWPL MUMBAI	
32.	Snack Table	N/A	
33.	RFID	M/S-TECH SOLUTION PVT LTD	Sr.106075,106076

5810
SSE/QC/MCF/RBL

मुख्यत्ता विभाग
रेडि०का०, रायबरेली (लातगंज)



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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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
6. 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 वरिष्ठ अभियंता आधुनिक रेल डिब्बा कारखाना, रायबरेली	 SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	 Dy.CQM/MCF/RBL Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli
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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	196286/C
RAILWAY	NFR	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 : SSK On Board Sr no : 2019/08/320 HT Panel Sr no : 2019/08/301	EDTS 333, Rev `01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/08/0085 Sr no.1 : 19080403 Sr no.2 : 19080468 Srno.CPA: 2019/08/088-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : DR AUTO	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 : RECORD/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD/SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: CG POWER	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: 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 : DR AUTO	CC76289 & CC76443	09

(Signature)

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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11.	Battery fuse box +ve Make : AECO	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: W4K5H 19295	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2094	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev` e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : NEC	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 : 21-19-768	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 08/19	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	AWM(ELECT.)/MCF/RBL
वरिष्ठ अनुभाग अभियन्ता	DY CEE (PLG)/MCF/RBL

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

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

