



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/2019-20/1178

RLY	N	F	R	Coach No.	1	9	7	7	0	1	/	C	DATE OF DISPATCH	3	0	-	1	1	-	1	9
DISPATCH TO	Sr.DME/DBRG				Type	L	W	S	C	N	1	Shell No.	9	7	5	3	5	FUR.NO.	LSCN-1358		

- Railway Board's Order No. : 2019/M(C)/142/2, Dated: 21.11-2019
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL
- Special feature: -1.- 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
2.- RFID(Radio frequency identification) fitted for traceability of coach
- 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) 1099 (NPPE) 2) 1101 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-SFPL
		Complete	NPP END M/S-SFPL
2.	Lav. side wall	MCF/RBL(CONTRACTOR V4U)	09/2019
		M/S- ATHANACY RBL	09/2019
3.	Side wall	M/S- ATHANACY RBL	97535
		LAV.1	LAV.2
4.	End wall	MCF/RBL(CONTRACTOR V4U)	LAV.3
		M/S- PD STEEL PANCHKULA	LAV.4
5.	Roof	M/S- DTL PUNE	339/01
6.	Centre Buffer Coupler	M/S- ECBT	339/02
		M/s- SANROK ENT.	---
		PP END	14571
		NPP END	14572

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	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	DATE OF COMPLETION
1.	Paint	P.U	M/s -EMPRISE	(SUPPLY & APPLY)	95/95	08.11.19
2.	Insulation					
Satisfactory						

SSR/QC/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: 16.05.2016

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DISPATCH	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	5	3	5	FUR.NO	LSCN-1358
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192253				192254			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-2061				MCF/RBL-2055			
Bolster no.	RBL-2729				TACPL-12			
Axle No	19 R- 6684 RWF		19 L - 5542 RWF		19 S - 4085 RWF		19 L - 5068 RWF	
Wheel Dia	917.445	917.487	917.436	917.529	917.425	917.529	917.551	917.384
Wheel Disc No	TZ 08-19 73709-9SL2	TZ 07-19 69259-9RL6	TZ 07-19 71134-9QJ4	TZ 07-19 63261-9RM6	TZ 09-19 37353-9RR6	TZ 07-19 63262-9RM6	TZ 08-19 72467-9RR3	TZ 08-19 75227-9RL2
R.B. Nos.	08-19-27794	09-19-38168	09-19-37978	10-19-38911	09-19-37353	08-19-27562	10-19-39017	09-19-38382
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.	CMGBD09-19-F09-757-37	CMFSK05-19-5100-027-488	CMGBD09-19-F09-757-80	CMFSK05-19-5100-027-440	CMGBD09-19-F09-757-97	CMFSK05-19-5100-027-519	CMGBD10-19-F09-750-52	CMFSK05-19-5100-027-490
Compressed Ht. at Tested Load	514	472	514	472	513	472	514	471
10Alignment deviation (mm)	15	13	15	13	23	8	22	8

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	17034,17035	17033,17651
2.	Primary outer Spring	CMFSK	10-19 1100-114 (870,824,823,1116)	10-19 1100-114 (801,866,812,827)
3.	Primary Inner Spring	CMFSK	10-19 1101-101 (548,856,574,579)	10-19 1101-101 (570,535,595,547)
4.	Primary Damper	KONIC	03-19 (05505,05593,03705,05922)	03-19 (04523,05008,04007,03834)
5.	Secondary Damper	IAI/GB	09-19 (273048,272776)	07-19 (01389,01388)
6.	Lateral Damper	IAI	05-19 250857	05-19 250820
7.	Brake Cylinder	FAV	(H19-1072,997,K19-757,547)	(K19-1017,655,H19-998,1074)
8.	Brake Caliper	FAV	(K19-736,734,L19-879,689)B	(L19-880,878,K19-135,737)B
9.	Brake Disc	KBI	24203752 0039-42/19,24203752 0047-42/19 24203752 0037-42/19,24203753 0028-42/19	24203753 0335-42/19,24203753 6036-42/19 24203753 0038-42/19,24203753 0038-42/19
10.	Ball Joint Control Arm	GMT/BASANT,		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON /ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	SF	79,118,350,100	32,48,101,641
22.	Control Arm Lower	SF	318,97,118,85	118,97,213,305
23.	Phonic Wheel	KBI	K-05-19	K-05-19

Signature of SSE/Bogie/QC

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०का०, रायबरेली (लालगंज)





Modern Coach Factory Raebareli

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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI FARIDABAD	3532-34/19
2.	Distribution valve	M/S- KBI FARIDABAD	2019H8732
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	NA	
5.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/s-SHREE RAM PNL GOVINDGARH	
8.	PVC	M/S- RESPONSIVE IND DEHLI	
9.	Lavatory Inlay	M/s- SEEMA IND. 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- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
14.	Body Side Window	M/s-EXCEL INDS KOLKATA	
15.	Emergency Window	M/s-AGF INDS KOLKATA	
16.	Hopper Window	M/S- SHATABDHI VADODARA + VEDANSH RBL	
17.	Side panel	M/s-WONDER LAMINATE KOLKATA	
18.	Roof ceiling	M/s-ACME INDS DELHI	
19.	Door way ceiling	M/s-ZAAM TOOLS RBL	
20.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Bio Tanks with ele.pneu.flushing	M/s-RASANDIK ENGG. INDUSTRIES GURGAON & IMI	
24.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
25.	Under Slung Water Tank(2X685L)	M/S- AMIT ENG. BADDI	
26.	Under Slung Water Tank (1X685L)	M/S- SHIVALIK FAST MOHALI	
27.	Controlled Discharge Tap	M/s- EAUSET PVT LTD GURGAON	
28.	Flexible Faucet	M/s-KAPCO VALES JALANDHAR	
29.	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
30.	Lavatory Doors	M/s-J.R. JALANDHAR	
31.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS	
32.	RFID	M/s-ID TECH SOLUTION GURGAON	Sr.104715-104716

(Signature)
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
रेलवे डिपार्टमेंट, रायबरेली (लालगंज)



Modern Coach Factory Raebareli

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DISPATCH TO	Sr.DME/DBRG				Type	L	W	S	C	N	1	Shell No.	9	7	5	3	5	FUR.NO.	LSCN-1358			
13. MODIFICATION (IF ANY)											:	Nil										

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

16WARRANTY:

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	SME/QC/MCF/RBL	Dy.COM/MCF/RBL

वरिष्ठ अनु अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)

वरिष्ठ यांत्रिक अभियंता, गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जयगन्धर्व 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

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197701/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





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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PAGE 3 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

11.	Battery fuse box +ve Make : SSK	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 : W4K5K-19964	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2512	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 : AECO	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 : KNORR Sr no : 0119242308	M/s : KNORR	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 : 09/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : NIL	CC 91205	01

 वरिष्ठ अनुभाग अभियन्ता SSE/EL/OC आर्य समाज / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, Sr. Electrical Engineer / RCF / RBL AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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