



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/2019-20/517

RLY	E	Co	R	Coach No.	1	9	5	8	9	7	/	C	DATE OF DISPATCH	2	7	-	0	7	-	1	9
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DISPATCH TO	Sr.CDO/VSKP	Type	L	W	S	C	N	1	Shell No.	9	7	1	5	2	FUR.NO.	LSCN-1121
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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) 1099 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-RAIL TECH	42
		NPP END M/s-RAIL TECH	42
		Complete M/s-RAIL TECH	42
2.	Lav. side wall	M/S- COMPETANT ENG. JUC	LAV.1 - LAV.2 -
		M/S- COMPETANT ENG. JUC	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	93/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	93/02
4.	End wall	PP END M/s-RAIL TECH KXH	---
		NPP END M/s-RAIL TECH KXH	---
5.	Roof	M/s-KANSAL	10
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 13038 NPP END 13013

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	06 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	14.07.19
2.	Insulation			Satisfactory		

Sd/-
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंक ०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193033				193034			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-2630				SCI-2381			
Bolster no.	SCI-102				AMIT-179			
Axle No	19 P- 2309 RWF		19 P- 7123 RWF		18 J- 1707 RWF		18 J- 8637 RWF	
Wheel Dia	917.557	917.645	917.55	917.604	917.689	917.648	917.660	917.602
Wheel Disc No	TZ 05-19 41888-9ML9	TZ 05-19 50898-9PE6	TZ 05-19 49374-9PE6	TZ 05-19 41889-9ML9	TZ 11-18 04617-8WJ4	TZ 10-18 03801-8WK1	TZ 11-18 04618-8WJ1	TZ 11-18 09887-8WJ1
R.B. Nos.	02-19 04823	02-19 05166	02-19 05153	02-19 05085	05-18 28709	05-18 28789	05-18 28711	05-18 39348
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
Make & Nos.	TAYAL & CO. Sr.NO.19-06 1476	TAYAL & CO. Sr.NO.19-06 1486	TAYAL & CO. Sr.NO.19-06 1243	TAYAL & CO. Sr.NO.19-06 1217

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12378,14161	14150,14172
2.	Primary outer Spring	CMSTL	07-19 07A(24,83,13,47)	01-19 07A(1709,2105,516,1297)
3.	Primary Inner Spring	CMGBD/CMRSK	06-17 F06-937(138,187,520,173)	12-18 06A(3318,1151,3393,1948)
4.	Primary Damper	KONI/GB	03-19 (01512,03613,01568,03645)	01-19 (01683,01676,01686,01679)
5.	Secondary Damper	KONI	03-19 (03172,00232)	03-19 (02672,00256)
6.	Lateral Damper	GABRIEL/GEREP	11-18 1394	KW16-18 301550559
7.	Brake Cylinder	FAV	(D19-811,749,E19-001,D19-805)	(B19-406,150,308,A19-215)
8.	Brake Caliper	FAV	E19(800,797,793,795)B	C19(350,351,404,402)B
9.	Brake Disc	KBI	24173458 0042-02/19,24178935 0062-11/19 24173458 0040-09/19,24178935 0053-11/19	24173115 0044-05/19,24173114 0045-05/19 24173115 0040-05/19,24173114 0041-05/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYEN/MGN		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	06-19 A 10458,06-19 A 10702	06-19 A 8028,06-19 A 8065
17.	Check Valve	KNORR	03-19 16490	12-18 15381
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON/GMT,RKFL/AR		
20.	Fork make	EMSON/ASL		
21.	Control Arm Upper	RVE	300119-1,251218-5,300119-3,251218-2	210119-3,RVE,RVE,170119-2,160119-2
22.	Control Arm Lower	RVE	151218-2,171218-2,RVE,171218-2	160119-3,RVE,170119-2,160119-2
23.	Phonic Wheel	FAV	F-20-19	FT/KEP/1955

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- KBI, FARIDABAD	3053 25/19
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- KBI, FARIDABAD	2019 F 8041
4.	Fiba	M/S- KBI, FARIDABAD	PP 7305/29 NPP 7095/29
5.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
6.	Decoupling arrangement	M/S-ELASTOMER INDS, MUMBAI	
7.	Floor board	M/S-SHREE RAM PNL GOVINDGARH	
8.	PVC	M/S-RESPONSIVE INDS DELHI	
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- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
14.	Body Side Window	M/S-FP INDS KOLKATA	
15.	Emergency Window	M/S-AGF INDS KOLKATA	
16.	Hopper Window	M/S- VEDANSH ENT.RBL	
17.	Side panel	M/S-ACME INDS DELHI	
18.	Roof ceiling	M/S-ACME INDS DELHI	
19.	Door way ceiling	M/S-RAJA INDS KHANNA	
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 Tank with pressurized flushing	M/s- RASANDIK ENG. INDUSTRIES, GURUGRAM, M/S-IMI	
24.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
25.	Under Slung Water Tank(2X685L)	M/S- RAIL FAB KXH	
26.	Under Slung Water Tank (1X685L)	M/S- SHIVALIK FAST. MOHALI	
27.	Controlled Discharge Tap	M/s- AGMECO PVT LTD U.K	
28.	Flexible Faucet	M/S-KAPCO VALVES JALANDHAR	
29.	Lotah Filler Tap	M/S-KAPCO VALVES JALANDHAR	
30.	Lavatory Doors	M/S- JR INDUSTRIES JALANDHAR	
31.	Seat & Berth	M/s- NARMADA FOREST SERVICELTD. BHOPAL	
32.	Snack Table	N/A	

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, 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:

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	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality	Dy. QC/MCF/RBL Dy. Quality Control/Shell
मध्यम विभाग आधुनिक रेल डिब्बा कारखाना, रायबरेली (लालमज)	आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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LSCN-1121

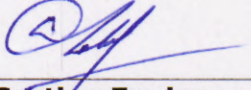
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	195897/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	DOC NO.: MCF/RBL/QEF/8001
	आधुनिक रेल डिब्बा कारखाना, रायबरेली	REV NO: 00
		DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : MV ELECTRO SYSTEMS On Board Sr no : 070/L/19-20 HT Panel Sr no : 057/H/19-20	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/06/0130 Sr no.1 : 19060691 Sr no.2 : 19060640 Srno.CPA: 2019/06/244-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: RT VISION	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	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: 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 : DR AUTO	CC76289 & CC76443	09

Senior Section Engineer
 Quality control / Electrical
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INDORAIL	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
13.	Regulated battery charger Make : PI ENGG. Sr no: PI/19060029	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-1965	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 : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119071148	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 06/19	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
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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

