



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/2018-19/1091

RLY	N	R	-	Coach No.	1	9	1	2	2	4	/	C	DATE OF DISPATCH	2	5	-	0	1	-	1	9			
DISPATCH TO	Sr.DME/CHG/DLI			Type	L	W	S	C	N	1	Shell No.	8	7	4	2	5	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2, Dated-28-11-2018
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL

4. 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) 1099 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S-ECBT, CHANDIGARH	477
		NPP END M/s- SFPL, MOHALI	12/18
	Complete	MCF/RBL	87425
2.	Lav. side wall	M/S RAIL TECH PVT.LTD. KXH	LAV.1 - LAV.2 -
		M/S RAIL TECH PVT.LTD. KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE M/S-ECBT, CHANDIGARH	59
		RH SIDE M/S-ECBT, CHANDIGARH	59
4.	End wall	PP END M/s- SFPL, MOHALI	---
		NPP END M/s- SFPL, MOHALI	---
5.	Roof	M/s- PIL, THIRUVALLUR	244
6.	Centre Buffer Coupler	M/S- SANROK FARIDABAD	PP END 10821 NPP END 10754

6. 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	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

7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -VIBGYOR	Supply & apply	90/90
2.	Insulation			Satisfactory	

Rama
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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RLY	N	R	-	-	Type	L	W	S	C	N	1	Shell No.	8	7	4	2	5	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182592				182591			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1522				Vs-1609			
Bolster no.	APEX-107				Apex-108			
Axle No	18 D - 9413 RWF		18 F - 2442 RWF		18 F - 2648 RWF		18 F - 2565 RWF	
Wheel Dia	917.59	917.624	917.588	917.578	917.536	917.58	917.478	917.552
Wheel Disc No	TZ05-18 25707-8PQ7	TZ07-18 37293-8RQ7	TZ07-18 37224-8RM7	TZ06-18 27641-8QG3	TZ07-17 24798-7RJ3	TZ06-17 20872-7QL1	TZ08-18 45267-8RP8	TZ08-18 45415-8RQ3
R.B. Nos.	07-18 41762	06-18 16443	06-18 17160	07-18 42285	05-18 40726	05-18 11785	05-18 27649	05-18 28799
CT R B Make	SKF		SKF		SKF		SKF	

9. 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.	CMGBD08-17- 5101-77	CMGBD05-18- 5100-70-745	CMGBD09-17- 5101-87-29	CMGBD05-18- 5100-64-661	CMGBD09-17- 5101-98-21	CMGBD05-18- 5100-64	CMGBD09-17- 5101-98-40	CMGBD03-18- 5100-66-75
Compressed Ht. at Tested Load	515	472	516	472	516	471	515	472
Alignment deviation (mm)	7	11	7	12	6	6	6	6

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12195,12183	12189,12193
2.	Primary outer Spring	CMGBD	10-18 1100(122-576,122-194,121-213,121-135)	10-18 1100(121-458,121-440,122-69,122-140)
3.	Primary Inner Spring	CMRSK	02-18 06Y- (473,541,158,306)	02-18 06Y- (100,487,133,1909)
4.	Primary Damper	KNORR	12-18(49154,48155,48246,42172)	12-18(48997,48128,48717,48107)
5.	Secondary Damper	GEREP	KW 16-2018 301550739	KW16 2018 301550739
6.	Lateral Damper	IAI	01-18 237268	01-18 237312
7.	Brake Cylinder	FAV	M18(009,399,400,407)	M18(364,493),K18-446,M18-409
8.	Brake Caliper	FAV	N18(476,473,513,516)B	N18(688,685,518,520)B
9.	Brake Disc	KBI	24162515 0012-41/18,24162514 0055-41/18 24162515 0009-41/18,24162515 0011-41/18	24162514 0025-41/18,24162514 0035-41/18 24162514 0029-41/18,24162514 0024-41/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR/PPI		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	ASL		
21.	Control Arm Upper	RVE	301118-2,301118-2,291118-1,RVE	102118-2,011218-2,261118-2,011218-1
22.	Control Arm Lower	RVE	281118-4,281118-4,281118-1,051218-4	261118-2,011118-4,061218-3,271018-2

Signature of SSE/Bogie/QC





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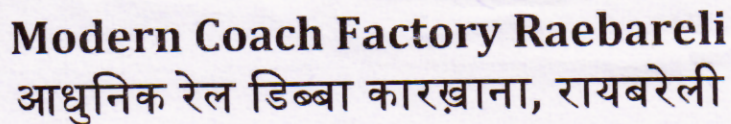
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DISPATCH TO	Sr.DME/CHG/DLI			Type	L	W	S	C	N	1	Shell No.	8	7	4	2	5	-	2	0	1	8	-	1	9

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	M 18047 B
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	18115560 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/s- E.G. WOOD BOARD, HYDRABAD	
7.	PVC	M/S- RESPONSIVE IND.DELHI	
8.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
9.	UIC Vestibule (PPE)	M/S-ELASTOMER, MUMBAI	
10.	UIC Vestibule (NPPE)	M/S-ELASTOMER, MUMBAI	
11.	Gangway bridge mounting (PPE)	M/S- RAKESH IRON STORE, KXH	
12.	Gangway bridge mounting (NPPE)	M/S- RAKESH IRON STORE, KXH	
13.	Body Side Window	M/S- AGF INDS, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- BEI PVT. LTD. PUNJAB	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/S- SYNTHETIC MODULAR, KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR INDUSTRIES, LDH	
20.	Vestibule Door(PPE)	M/S- KALSI INDS, LDH	
21.	Vestibule Door(NPPE)	M/S- KALSI INDS, LDH	
22.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES, GURUGRAM	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/S SHIVALIC FASTNERS PVT.LTD. MOHALI	
25.	Under Slung Water Tank (1X685L)	M/S SHIVALIC FASTNERS PVT.LTD. MOHALI	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
27.	Lavatory Doors	M/S- KALSI INDS, LDH	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/s- OVPL, MUMBAI	
31.	Snack Table	N/A	

Signature
 SSE/QC/MCF/RBL
 वरिष्ठ गुणवत्ता विभाग
 गुणवत्ता विभाग
 रेडि0का0, रायबरेली (लालगंज)



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DISPATCH TO	Sr.DME/CHG/ DLI	Type	L	W	S	C	N	1	Shell No.	8	7	4	2	5	-	2	0	1	8	-	1	9
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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

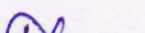
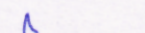

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

15. WARRANTY:

NOTE:

- 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

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.

 Dy. Chemist SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिओका, रायबरेली (लालगंज)	 AME/QC/MCF/RBL सहायक कां. प्र. (अभियंता), गुणवत्ता II Assistant Mechanical Engineer / Quality-II आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	 Dy. Chemist Dy. QC/MCF/RBL Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly
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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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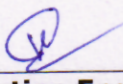
DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	191224/C
RAILWAY	NR	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 : INTERNATIONAL On Board Sr no : SOP-NAC-MCF-18/07/0132 HT Panel Sr no : SOP-NAC-MCF-17/10/0015	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/185 Sr no.1 : 18120046 Sr no.2 : NIL Sr no.CPA: 2018/12/119-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 : SSK/SALZER	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	10
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: RT VISION/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 : AGASTYA	CC76289 & CC76443	10

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

11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 01191209	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18018027	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL/MLI	As per spec No EDTS 105,Rev` e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : ISG	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 33-18-1295	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 : 02/18	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	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंग/लागू/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr Electrical Engrg. LKKNOW