



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/2019-20/862

RLY	C	R	-	Coach No.	1	9	7	0	0	1	/	C	DATE OF DISPATCH	1	1	-	1	0	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	9	FUR.NO.	LSCN-1262
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1. **Railway Board's Order No.** : 2019/M(C)/142/2, Dated: 3-06-20192. **Tare Weight of Coach** : 41.24 Tones3. **Carrying Capacity** : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL4. **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

3-Venturi arrangement in lavatory

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) 1105 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END	63
		NPP END	63
		Complete	63
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	206/01
		RH SIDE	206/02
4.	End wall	PP END	---
		NPP END	---
5.	Roof	M/s-ECBT	306
6.	Centre Buffer Coupler	M/S- SANROK	PP END 13669 NPP END 13690

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 -VIBGYOR	(SUPPLY & APPLY)	90/88	01.09.19
2.	Insulation			Satisfactory		

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL
मुख्य निरीक्षक

रेलवे मंत्रालय, रायबरेली (उत्तर प्रदेश)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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DISPATCH	SSE/STOCK/CSTM	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	9	FUR .NO	LSCN-1262
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	197035				197036			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-2186				SCI-2185			
Bolster no.	MCF/RBL-LS5-1074				MCF/RBL-LS5-809			
Axle No	19 R- 2042 RWF		19 R- 3242 RWF		19 R- 6439 RWF		19 R- 6407 RWF	
Wheel Dia	917.57	917.598	917.677	917.656	917.591	917.639	917.571	917.602
Wheel Disc No	TZ 06-19 55886-9QK0	TZ 06-19 57602-9QL0	TZ 06-19 57552-9QK0	TZ 06-19 53203-9PQ0	TZ 06-19 57603-9QJ0	TZ 06-19 57820-9QJ0	TZ 06-19 55885-9QK0	TZ 06-19 57568-9QS2
R.B. Nos.	02-18-12432	04-18-25253	06-18-16256	06-18-16188	02-18-12434	02-18-24629	02-18-12433	02-18-25268
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.19-08 2985	TAYAL & CO. Sr.NO.19-08 2962	TAYAL & CO. Sr.NO.19-08 3026	TAYAL & CO. Sr.NO.19-08 2941

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	16171,16181	16178,16166
2.	Primary outer Spring	CMFSK	07-19 1100-058(5,140,512,281)	07-19 1100-058(105,146,186,283)
3.	Primary Inner Spring	CMFSK	06-19 1101-064(207,492,585,428)	06-19 1101-064(407,721,563,401)
4.	Primary Damper	KONI	03-19 (01668,00935,04549,01212)	03-19 (00953,00131,02823,00990)
5.	Secondary Damper	IAI	07-19 (263626,263407)	07-19 (263609,263579)
6.	Lateral Damper	GABRIEL	11-18 936	11-18 604
7.	Brake Cylinder	FAV	(E19-833,565,D19-389,373)	D19 (302,387,543,490)
8.	Brake Caliper	FAV	F19(715,713,178,120)B	F19(179,177,603,601)B
9.	Brake Disc	KBI	24193637 0051-27/19,24193639 0003-27/19 24193639 0016-27/19,24193637 0043-27/19	24193659 0017-29/19,24193661 0005-29/19 24193639 0034-29/19,24193643 0049-28/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR	16-19-B-5924,16-19-B-5911	16-19-B-5928,16-19-B-5701
17.	Check Valve	KNORR	06-19-19443	07-19-19615
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA /AR,		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	35,68,428,28	36,110,278,38
22.	Control Arm Lower	SF	31,SF,328,128	52,188,8,58
23.	Phonic Wheel	KNORR	K-07-19	K-07-19

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	3520 34/19
2.	Pull box	M/S- KBI, FARIDABAD	
3.	Distribution valve	M/S- KBI, FARIDABAD	2019 H 8687
4.	FIBA	M/S- KBI, FARIDABAD	PP-7640/29 NPP-7560/29
5.	Foot Step	M/s- SUPER SPAR K PVT. LTD. FARIDABAD	
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/s-G.I. NATURAL KOLKATA	
8.	PVC	M/s-G.I. NATURAL KOLKATA	
9.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
10.	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
11.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
12.	Gangway bridge mounting (PPE)	M/S- RAKESH IRON STORE, KXH	
13.	Gangway bridge mounting (NPPE)	M/S- RAKESH IRON STORE, KXH	
14.	Body Side Window	M/s-G.I. NATURAL KOLKATA	
15.	Emergency Window	M/s-G.I. NATURAL KOLKATA	
16.	Hopper Window	M/s-G.I. NATURAL KOLKATA	
17.	Side panel	M/s-G.I. NATURAL KOLKATA	
18.	Roof ceiling	M/s-G.I. NATURAL KOLKATA	
19.	Door way ceiling	M/s-G.I. NATURAL KOLKATA	
20.	Body Side Door 1,3	M/S- SUKATA INDS, CDG	
21.	Body Side Door 2,4	M/s- JVR INDS, LUDHIYANA	
22.	Vestibule Door(PPE)	M/S- HANSPAL TRADERS, KXH	
23.	Vestibule Door(NPPE)	M/S- HANSPAL TRADERS, KXH	
24.	Bio Tank with pressurized flushing	M/s- FLASH FORGE (P)LTD. VIZAG	
25.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
26.	Under Slung Water Tank(2X685L)	M/S- AMIT ENG. BADDI	
27.	Under Slung Water Tank (1X685L)	M/S- AMIT ENG. MOHALI	
28.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
29.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
30.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
31.	Lavatory Doors	M/s-G.I. NATURAL KOLKATA	
32.	Seat & Berth	M/S- SUKATA INDS, CDG	
33.	Snack Table	N/A	
34.	RFID	M/s-TECH SOLUTION GURGAON	Sr.10031,10032

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL
मुख्य निरीक्षण विभाग

२०१९.०४.१७, रायबरेली, उत्तर प्रदेश





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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	S	C	N	1	Shell No.	9	7	3	5	9	FUR.NO.	LSCN-1262
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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

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:

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 qualityrcfrbl@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	Dy.CQM/MCF/RBL

वरिष्ठ यांत्रिक अभियंता
गुणवत्ता प्रबंधक
रेल डिब्बा कारखाना, रायबरेली (लाहौरी)वरिष्ठ यांत्रिक अभियंता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareliजोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबंधक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

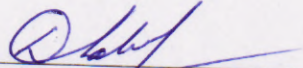
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197001/C
RAILWAY	CR	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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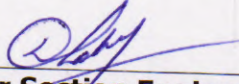
DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On Board Sr no : 2019/09/378 HT Panel Sr no : 2019/08/381	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/09/0025 Sr no.1 : 19090162 Sr no.2 : 19090118 Srno.CPA: 2019/09/055-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: RT VISION	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


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 : RADIANT	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : RADIANT	LW 71002,Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: W4K5H 19526	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2055	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 : 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 : KNORR Sr no : 0119212041	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 : 08/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : TECHNO	CC 91205	01

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



Modern Coach Factory Raebareli

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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/850

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DISPATCH TO		SSE/STOCK/CSTM			Type		L	W	A	C	C	W	Shell No.	9	3	2	6	1	FUR.NO.		L2T(T)-88

- Railway Board's Order No. : 2019/M(C)/142/2, Dated- 03.06.2019
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
- Special feature**

A- Due to fitment of L3T roof in L2T shell, more space available in transverse side.

B- Extend linen room to accommodate the space NPP end (width 270 mm)

C- Height (from floor level to ceiling) raised from 2250mm to 2510mm.

C1- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.

C2- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.

C3- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.

D- Provision of sliding cum sleeping berth. (MAKE- M/S- ANANYA RAIL COACH COMPONENTS IND.LLJ)

E- 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

F - RFID (Radio frequency identification) fitted for traceability of coach

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-DTL	09
	Front Part	NPP END M/S-DTL	09
	Complete	M/S-DTL	09
2.	Lav. side wall	M/S- RAIL TECH, KXH	LAV.1 - LAV.2 -
		M/S- RAIL TECH, KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	162/ 01
	RH SIDE	MCF/RBL(CONTRACTOR V4U)	162/ 02
4.	End wall	PP END M/S- RAIL TECH, KXH	---
	NPP END	M/S- RAIL TECH, KXH	---
5.	Roof	M/S- ECBT	53
6.	Centre Buffer Coupler	M/s- ESCORT	PP END 1644 NPP END 1660

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)	89/88	18.09.19
2.	Insulation			Satisfactory		

परिष्कार अभियंता
SSE/QC/MCF/RBL
रेलवे कारखाना, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/850

RLY	C	R	-	Coach No.	1	9	6	9	2	6	/	C	-	DATE OF DISPATCH	1	0	1	0	2	0	1	9
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DISPATCH	SSE/STOCK/CSTM	Type	L	W	A	C	C	W	Shell No.	9	3	2	6	1	FUR .NO	L2T-T-88
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191216				191215			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-396				WIL-404			
Bolster no.	SCI-219				SCI-244			
Axle No	19 R - 2302 RWF		19 R - 6432 RWF		19 P - 2094 RWF		19 R - 2576 RWF	
Wheel Dia.	917.632	917.633	917.592	917.641	917.569	917.68	917.591	917.63
Wheel Disc No	TZ 06-19 54427-9QJ2	TZ 06-19 95270-9QJ2	TZ 06-19 55272-9QJ2	TZ 06-19 54930-9QH1	TZ 06-19 18486-9QJ1	TZ 06-19 54216-9QJ1	TZ 06-19 54426-9PD8	TZ 06-19 54424-9PD8
R.B. Nos.	07-19-18620	07-19-22062	07-19-18383	07-19-17680	07-19-18486	07-19-19833	07-19-18092	07-19-21282
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	TAYAL & CO. Sr.NO.19-08 2860	TAYAL & CO. Sr.NO.19-08 2854	TAYAL & CO. Sr.NO.19-08 2872	TAYAL & CO. Sr.NO.19-08 2853

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	16045,17363	16031,16035
2.	Primary outer Spring	CMAFI	05-19 7411(400,332,401,402)	05-19 7411(395,399,334,398)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(1455,1386,1178,1448)	05-19 7143-559(1310,1324,1302,1295)
4.	Primary Damper	KONI	03-19 (02012,06187,05448,02866)	03-19 (05671,05446,02393,05424)
5.	Secondary Damper	KONI	04-19 (06980,05422)	04-19 (06844,06850)
6.	Lateral Damper	GABRIEL	11-18 1229	11-18 1224
7.	Brake Cylinder	FAV	(E19-491,159,422,C19-801)	(C19-801,E19-425,522,C19-522)
8.	Brake Caliper	FAV	F19(1692,1690,1951,1953)B	E19(1952,1950,1970,1972)B
9.	Brake Disc	KBI	24193642 0020-27/19,24193654 0068-28/19 24193642 0021-27/19,24193639 0044-27/19	24193649 0025-28/19,24193644 0068-28/19 24195445 0010-29/19,24193659 0038-29/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR	06-19 A 10106,06-19 A 10001	06-19 A 10309,06-19 A 10231
17.	Check Valve	KNORR	02-19 16536	02-19 16564
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	NIPHA	0115,050,384,0334	0306,0123,0310,0308
22.	Control Arm Lower	NIPHA	0238,0145,0248,NIPHA	0108,0218,129,0308
23.	Phonic Wheel	KNORR	K-07-19	K-07-19

Signature of SSE/Bogie/QC





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/2019-20/850

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/850																					
RLY	C	R	-	Coach No.	1	9	6	9	2	6	/	C	DATE OF DISPATCH	1	0	-	1	0	-	1	9
DISPATCH TO		SSE/STOCK/CSTM			Type		L	W	A	C	C	W	Shell No.	9	3	2	6	1	FUR.NO.		L2T(T)-88

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)	F19108 B
2.	Distribution valve	M/S -FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	19065602 B
3.	Pull box	M/S- KBI, FARIDABAD	PP-7574129
4.	FIBA	M/S- KBI, FARIDABAD	NPP-7620120
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	D-coupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
8.	PVC	M/S PREMIER POLYFILM, GZB	
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- MAHAVEER METAL WORKS, KXH	
12.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/s-GANDHI SAFE INDS.JALNDHAR	
18.	Automatic smoke & heat Detection with alarm System	M/S- SANROK ,FARIDABAD	
19.	Supply Air Duct	M/s- HANSAL COACH PRODUCT, KXH	
20.	Partition panel	M/S- RAIL TECH KXH	
21.	Partition pillar	M/S- SIDHU INTERNATIONAL.CO. KXH	
22.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA	
23.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
24.	Body Side Doors	M/s- JVR INDS, LUDHIYANA	
25.	Compartment Door (PPE)	M/S- HANSAL TRADERS, KXH	
26.	Compartment Door (NPPE)	M/S- HANSAL TRADERS, KXH	
27.	Vestibule Door(PPE)	M/S- HANSAL TRADERS, KXH	
28.	Vestibule Door(NPPE)	M/S- HANSAL TRADERS, KXH	
29.	Bio Tank	M/S- OMAX AUTO GURGAON HR	
30.	Auxiliary Water Tank	M/s- AMIT ENG MOHALI	
31.	Under Slung Water Tank (2X685L)	M/s- AMIT ENG. BADDI	
32.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
33.	Health Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA	
34.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA	
35.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
36.	Lavatory Modules	M/s- HINDUSTAN FIBER GLASS, VADODRA	
37.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA	
38.	Fire Extinguisher	M/S-CAPITAL FIRE	
39.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	PP-09812 NPP-09845
40.	Light Luggage Rack	M/S- LUCKY ENT. GUNGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
42.	RFID	M/S-TECH SOLUTION PVT LTD	Sr.104301,104302

SSE/QC/MCF/RBL

रैडिंकॉ, रायबरेली (आलगांज)





Modern Coach Factory Raebareilly

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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RLY	C	R	-	Coach No.	1	9	6	9	2	6	/	C	DATE OF DISPATCH	1	0	-	1	0	-	1	9
DISPATCH TO		SSE/STOCK/CSTM			Type	L	W	A	C	C	W	Shell No.	9	3	2	6	1	FUR.NO.		L2T(T)-88	

13. MODIFICATION (IF ANY)

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, curtain 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/OC/MCF/RBL वार 0अनु 0 अभियंता गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियंता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareilly	Dy.CQM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

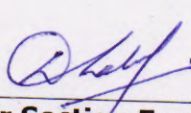
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH	LWACCW	SHELL/COACH NO	196926/C
RAILWAY	CR	DATE OF DESPATCH	
Sr no	Description of tests		Remarks
1.0	REFERENCE SPECIFICATION : L 446		
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.		
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01		
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.		
	Observed status : HEALTHY		
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE	OK
3.1	Fresh Air	19.65 Cub mtr/min	OK
3.2	Return Air	70.56 Cub mtr/min	OK
3.3	Exhaust Air	6.27 Cub mtr/min	OK
3.4	Conditioned Air	162.98 Cub mtr/min	OK
4.0	PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition. PP Side : 22.1 °C NPP Side : 21.5 °C		OK
5.0	PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition. Not done		--


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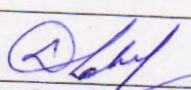
PAGE 2 OF 5

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED	OK
	R 407C	


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DOC NO.: MCF/RBL/QEF/8001

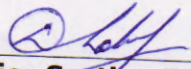
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

PAGE 3 OF 5

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : AMIT ENGG. Sr no of RMPU 1(NPP side) 3774 G Sr no of RMPU 2(PP side): 3777 G Sr no of Microprocessor: AE 19.06.554	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-922	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2019/09/0079 Sr no.1: 19090098 Sr no.2: 19090176 Srno.CPA: 2019/09/107-DR AUTO	As per spec EDTS 186,Rev-a, Am-2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Passenger area Light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
08.	Emergency light system for EOG type coaches (AEL)Make: DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make: K.LITE	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04


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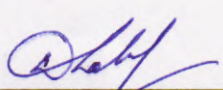
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

PAGE 4 OF 5

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F2	26
13.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F4	9
15.	Passenger alarm coach indication light Make: KAVERI	LW 76005,Alt-e	02
16.	Razor socket for WC 110/240V. Make: SSK	EDML 047 ,Rev nil	04
17.	Terminal strip Make: WAGO	EDML 033,Rev-c	01
18.	Terminal connector Make: WAGO	EDML 037,Rev`a`	04
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev_C, Item 1.	09
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: SSK	EDML 047,Rev_A ,Item 2.	09
21.	Switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make: SSK	EDML 0,64,Rev-B, Item -16.	09
22.	PA system for LHB coaches Make : AHUJA	EDTS 173 Rev- a Am-1,2&3	01 set


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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

PAGE 5 OF 5

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 07/19	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : RADIANT	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : RADIANT	LW 71002,Alt-F	01
27.	Regulated battery charger Make : EEC Sr no: 11180042	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Emergency battery charger Make : BHASIN Sr no: 08199010	EDTS 163,Rev `c` corg.-2&3	01
29.	5KVA Transformer Make: VIMAL SL.no : VTC 3089 LHB-980	As Per EDTS-366,REV-NIL & CC-71510	01
30.	Capacitor Bank Make: KONTACT SL.no : KT-918	As per EDML-130 Rev-1,Corr-1	01
31.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-1538	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
32.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev `e` Am-2	02 sets
33.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	02
34.	Wheel set earthling equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02
35.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 15/19/567	M/s : FAIVELEY	01 set
36.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	00

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आपरेटिंग/डिपार्च/लालगंज/रायबरेली

S.S.E./Elect-QC/M.C.F./LLJ/RBL

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

रेल कोच फैक्टरी, रायबरेली, लखनऊ

Sr. Electrical Engineer / RCF / RBL / Lucknow