



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/2019-20/702

RLY	--	C	R	Coach No.	1	9	6	2	3	7	/	C	DATE OF DISPATCH	1	0	-	0	9	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	2	0	3	FUR.NO.	L3T-1252
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -03 -06-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. **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

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	4250
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	19
		NPP END M/s-DTL	19
	Complete	M/s-DTL	19
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)	133/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	133/02
4.	End wall	PP END M/s-RAIL TECH KXH	---
		NPP END M/s-RAIL TECH KXH	---
5.	Roof	M/s-PIL	150
6.	Centre Buffer Coupler	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI-HP	PP END F19070 NPP END F19077

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-BERGER	SUPPLY & APPLY)	89/88	11.08.19
2.	Insulation			Satisfactory		

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

रेलवे कारखाना, रायबरेली (मोबाइल)



MODERN COACH FACTORY, RAEBARELI

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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	197026				197025			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-116				ECBT-115			
Bolster no.	MCF/RBL-890				MCF/RBL-1114			
Axle No	19 L - 5704 RWF		19 P - 9370 RWF		19 L - 4979 RWF		19 L - 5747 RWF	
Wheel Dia	917.679	917.836	917.697	917.563	917.725	917.852	917.697	917.811
Wheel Disc No	DP 06-17 32190-17-344	DP 06-17 32170-17-344	TZ 06-19 58989-9QJ8	TZ 06-19 53641-9PD3	DP 06-17 32199-17-344	DP 06-17 32192-17-344	DP 06-17 32161-17-344	DP 06-17 32188-17-344
R.B. Nos.	05-18 12493	05-18 29078	05-18 14771	06-18 16179	05-18 11637	05-18 12698	05-18 11636	05-18 39969
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
	TAYAL & CO. Sr.NO.18-09 1039	TAYAL & CO. Sr.NO.18-09 0579	TAYAL & CO. Sr.NO.18-05 0607	TAYAL & CO. Sr.NO.18-05 0597

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	14578,13404,	12505,13382
2.	Primary outer Spring	CMFSK	03-19 7411-545(1276,1577,1366,1533)	03-19 7411-545(1399,1265,1265,1328)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(461,429,236,1017)	05-19 7143-559(13,523,157,52)
4.	Primary Damper	KONI	03-19 (00195,00658,02439,01046)	03-19 (01176,02061,02499,00949)
5.	Secondary Damper	IAI	01-19 (237955,238035)	01-19 (238001,237985)
6.	Lateral Damper	GABRIEL	11-18 947	11-18 946
7.	Brake Cylinder	FAV	F19(107,176,826,836)	F19(022,0580,173,105)
8.	Brake Caliper	FAV	E19(744,742,722,724)B	E19(723,721,741,743)B
9.	Brake Disc	FAV/KBI	FAV - 03-19(1693,1694)D133561-300 KBI - 24133632 0058-27/13,24193634 0051-27/19	FAV - 03-19(1839,1840,1838,1837)D133561-300
10.	Ball Joint Control Arm	GMT/AR		
11.	Lateral Bump Stop	AR/GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BASANT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19 B 7330,16-19 B 5735	16-19 B 5934,16-19B 5917
17.	Check Valve	KNORR	06-19 19432	07-19 19612
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/BASANT, SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE/SF	040619-2,RVE,SF,040619-3	SF-102,0119-2,255,01069-2
22.	Control Arm Lower	RVE/SF	040619-2,270519-3,SF-67,280519-2	SF-101,RVE,107,241961-2
23.	Phonic Wheel	KBI	K-06-19 640209	K-06-19 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 TRANSPORT TECH.INDIA LTD BADDI(HP)	C19153B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19035685B
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	
5.	Foot Step	M/S- HITEEN INERARENTURE PVT LTD RBL	PP-8024 /29 NPP-7964 /29
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/s- SHATABDI SAFTY GLASS VADODARA	
14.	Emergency Window	M/s- SHATABDI SAFTY GLASS VADODARA	
15.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16.	Roof Ceiling	M/s- MSL MUMBAI	
17.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Supply Air Duct	M/s-P.D. STEEL PANCHKULA	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/S- JR INDUSTRIES JALANDHAR	
21.	Side Wall panel	M/S- JR INDUSTRIES JALANDHAR	
22.	AC Trough	M/s- F.P. KOLKATA	
23.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/S RAIL FAB. KAPURTHALA	
29.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
32.	Health Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
33.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
34.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
35.	Lavatory Modules	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
36.	Lavatory Doors	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
37.	Fire Extinguisher	M/S- SAFELY PLUS	
38.	Automatic smoke & heat Detection with alarm System	M/s-SANROK ENTERPRISES	PPE-2132 ,NPPE-2171
39.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND.	
40.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
42.	RFID	M/s-TECH SOLUTION GURGAON	Sr-104175-104176

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लागवर्ज)



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DISPATCH TO	SSE/STOCK/CSTM			Type	L	W	A	C	C	N	Shell No.	9	3	2	0	3	FUR.NO.	L3T-1252			

13. MODIFICATION (IF ANY)

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL -

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL
1-	Wheels provided by M/S-Sail Durgapur and assembled by MCF/RBL.	Trial	Feed back is require to quality MCF/RBL	---

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/QC/MCF/RBL गुणवत्ता विभाग रेडिओका, रायबरेली (लालगंज)	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.COM/MCF/RBL ज्येष्ठ मुख्य गुणवत्ता प्रबंधक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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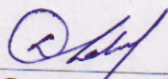
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH	LWACCN	SHELL/COACH NO	196237/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	19.88 Cub mtr/min	OK
3.2	Return Air	72.90 Cub mtr/min	OK
3.3	Exhaust Air	7.15 Cub mtr/min	OK
3.4	Conditioned Air	158.80 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 : 21.0°C NPP Side : 21.6°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.		----


Senior Section Engineer
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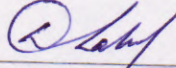
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 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	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK


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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : FEEL Sr no of RMPU (NPP side): 2119001124 Sr no of RMPU (PP side) : 2119001106 Sr no of Microprocessor: 18.11.051 A PAUL	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet, Make : AMIT ENGG. Sr no : AE/SB-776	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/08/053 Sr no.1 : 19080418 Sr no.2 : 19080453 Sr no.CPA : 2019/05/081-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
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 : RT VISION	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
11.	Passenger alarm coach indication light Make : KAVERI	LW 76005,Alt-e	02

(Signature)
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Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01 SET
14.	Terminal connector Make : WAGO	EDML 037,Rev`a'	1 SET
15.	Provision of 04 switch with socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	18
16.	Provision of 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.	54
17.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am-1,2&3	01 set
18.	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 : 08/18	EDTS 129,Rev nil	01 set
19.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
20.	Battery fuse box +ve Make : AECO	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : RADIANT	As per LW 71002,Alt-F	01
22.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	9

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Emergency battery charger Make : M.B & COMPANY Sr no: 201907991	EDTS 163,Rev 'c' corg.-2&3	01
27.	Regulated battery charger Make : EEC Sr no: 01190019	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT 5L 18428	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Provision of capacitor Bank Make : KONTACT SL.no : KT-954	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1487	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	Inter Vehicle (ZS)coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
32.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
33.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
34.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 11/19/398	M/s : FAIVELEY	01 set
35.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	00

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आर०रे०डि०का० / लालगंज / रायबरेली

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

AWM(E)/MCF/RBL

CEE/D1/MCF/DR1

स० कार्य प्रबन्धक / विद्युत

आर०रे०डि०का० / रायबरेली

A.W.M./Electrical/MCF/RBL

