



Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

आधुनिक रेल डिब्बा कारखाना, रायबरेली

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/650

RLY	C	R	-	-	Coach No.	1	9	6	1	1	5	/	C	DATE OF DISPATCH	2	9	-	0	8	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	4	7	FUR.NO.	L3T-1239
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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:** - 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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1095 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

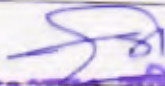
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S-M.TECH
		Complete	NPP END M/S-M.TECH
			MCF/RBL
2.	Lav. side wall	M/s-RAIL TECH KXH	308
		M/s-RAIL TECH KXH	93147
3.	Side wall	LH SIDE	LAV.1 --- LAV.2 ---
		RH SIDE	LAV.3 --- LAV.4 ---
4.	End wall	PP END	153
		NPP END	153
5.	Roof	M/S-OMEX REWARI	---
6.	Centre Buffer Coupler	M/S-RSM MOHALI	---
		M/S DTL ltd pune	168
		M/S Escorts ltd railway equipment FBD	PP END 1058 NPP END 1066

7. 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	08 sec 3.0 kg/cm ²
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	OK No brake application	OK OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/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- NEROLAC	K.NEROLAC	90/89	03.08.19
2.	Insulation			Satisfactory		


 वरिष्ठ/ए.ए.एम. / वरिष्ठ/ए.ए.एम.
 SSE/QC/MCF/RBL



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	196006				196005			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1008				ECBT-1009			
Boilster no.	VS-456				VS-462			
Axle No	19 P - 2794 RWF		19 N - 3569 RWF		19 P - 2633 RWF		19 P - 1291 RWF	
Wheel Dia	917.653	917.641	917.619	917.531	917.63	917.698	917.694	917.579
Wheel Disc No	TZ 05-19 42293-9PI3	TZ 05-19 45478-9OI5	TZ 04-19 36185-9OF7	TZ 04-19 34675-9OG1	TZ 05-19 42294-9PI3	TZ 05-19 41588-9PE1	TZ 12-18 17875-8WR2	TZ 05-19 41820-9MI9
R.B. Nos.	07-19 15561	07-19 15913	07-19 16171	06-19 14802	07-19 16478	07-19 16184	07-19 16876	07-19 16485
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.	CMFSK09-19- 8836-551-55	CMFSK03-19- 9513-459-301	CMFSK09-19- 8836-551-58	CMFSK02-19- 9513-459-995	CMFSK09-19- 8836-551-42	CMFSK02-19-9513- 459-509	CMFSK09-19- 8836-551-57	CMFSK02-19-9513- 459-751
Compressed Ht. at Tested Load	511	463	512	463	515	468	514.5	468
Alignment deviation (mm)	10	12	9	11	7	9	8	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	13183,13167	13176,13175
2.	Primary outer Spring	CMFSK	05-19 7411-545(1603,1716,1758,1519)	05-19 7411-545(1761,1734,1763)
3.	Primary inner Spring	CMFSK	01-19 7143-559(990,299,270,291)	01-19 7143-559(266,165,252,164)
4.	Primary Damper	KONI	03-19 (06143,02937,04640,02933)	03-19 (04707,02356,04785,06150)
5.	Secondary Damper	KNORR	12-18 13856, 02-19 17221	02-19 (17216,17232)
6.	Lateral Damper	IAI	02-19 241338	02-19 241890
7.	Brake Cylinder	KBI	B(6947,6043,6059,7108)K-29	B(6944,6005,6067,5943)K-29
8.	Brake Caliper	KBI	B(4225,4232,4262,4258)K-29	B(4128,4280,4281,4126)K-29
9.	Brake Disc	KBI	24193659 0019-29/19,24193659 0018-29/19 24173126 0049-08/19,24173126 0053-08/19	24193659 0014-29/19,24193661 0006-29/19 24178943 0042-14/19,24178943 0041-14/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	ARYAN		
16.	Secondary Rubber Pad	PPI		
17.	Rubber Spring	EMSON		
18.	Anti roll bar Make	SARITA/AR		
19.	Roll Link make	EMSON		
21.	Control Arm Upper	CC	29.138,59,52	041619-2,270519-2,RVE,270519-2
22.	Control Arm Lower	CC	CC,193,CC,29	280519-3,RVE,280519-3,270519-2
23.	Phonic Wheel	KNORR	K-06-19	K-06-19

Signature of SSE/Bogie/QC



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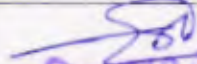
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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3276 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019D 7423
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	D-coupling arrangement	M/S-KOHINOOR KRMUMBAI	
6.	Floor board	M/s-TWPL MUMBAI	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREAST KOLKATA	
10.	Gangway bridge mounting (PPE)	M/S- MAHAVEER METAL WORKS KXH	
11.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER METAL WORKS KXH	
12.	Body Side Window	M/S- RELIABLE SAFETY NOIDA	
13.	Emergency Window	M/S- RELIABLE SAFETY NOIDA	
14.	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
16.	Door way /gang way ceiling	M/s Amirchand engg.works Jalandhar	
17.	Supply Air Duct	M/S- GANDHI SAFE & ALLIED JUC	
18.	Partition panel	M/S- UNIVERSAL NOIDA	
19.	Partition pillar	M/S- J.R INDUSTRIES JALNDHAR	
20.	Side Wall panel	M/S- ALEX PVT LTD KXH	
21.	AC Trough	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
22.	Body Side Door	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Compartment Door (PPE)	M/s KALSI FAB LDH	
24.	Compartment Door (NPPE)	M/s KALSI FAB LDH	
25.	Vestibule Door(PPE)	M/s KALSI AUTOMATIC DOOR LDH	
26.	Vestibule Door(NPPE)	M/s KALSI AUTOMATIC DOOR LDH	
27.	Bio Tank	M/s- FLASH FORGE VIZAG	
28.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
29.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. BADDI	
30.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
31.	Health Faucet	M/S- ARHAM HI TECH MUMBAI	
32.	Lotah Filler Tap	M/S- ARHAM HI TECH MUMBAI	
33.	Bib cock	M/S- KPI IND.MOHALI	
34.	Lavatory Modules	M/S- ARHAM HI TECH MUMBAI	
35.	Lavatory Doors	M/S- ARHAM HI TECH MUMBAI	
36.	Fire Extinguisher	M/S- SAFTEY PRO	PPE-1883 ,NPPE-1884
37.	Seat & Berth	M/s- OVPL, MUMBAI	
38.	Light Luggage Rack	M/S- LUCKY ENTT. GURGAON	
39.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	


 SSE/QC/MCF/RBL
 मुख्यालय रायबरेली

* 0180830, रायबरेली (उत्तर प्रदेश)



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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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	SME/QC/MCF/RBL	Dy.CQM/MCF/RBL

रेल डिब्बा कारखाना, रायबरेली (राज्य)

Small Mechanical Engineer-Quality
Modern Coach Factory Raebareli

Dy. Chief Quality Manager/Shell
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli



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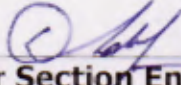
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH	LWACCN	SHELL/COACH NO	196115/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	19.96 Cub mtr/min	OK
3.2	Return Air	78.44 Cub mtr/min	OK
3.3	Exhaust Air	5.06 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 Not done.	----	
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
Quality control / Electrical
Modern Coach Factory Raebareli



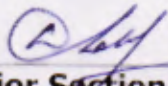
FOR ELECTRICAL ITEMS

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	OK

R 407C


Senior Section Engineer
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : SSK Sr no of RMPU (NPP side): 913/19 Sr no of RMPU (PP side) : 912/19 Sr no of Microprocessor: 19.03.329 /AMIT ENGINEER	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-688	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/06/0107 Sr no.1 : 19060628 Sr no.2 : 19060709 Sr no.CPA : 2019/07/057-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 : DR AUTO/RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : A PAUL	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : DR AUTO	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)
Senior Section Engineer
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : 01/18	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 : RADIANT	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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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : BHASIN Sr no: 07193997	EDTS 163,Rev 'c' corg.-2&3	01
27.	Regulated battery charger Make : EEC Sr no: 01190016	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC-3089-LHB-1044	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Provision of capacitor Bank Make : KONTACT SL.no : KT-884	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1346	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	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 : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
34.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119121589	M/s : KNORR	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

गणवत्ता निबंधन

AWM(E)/MCF/RBL

CEE/D1/MCF/DRI

स० कार्य प्रबन्धक/विद्युत