



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/2019-20/593

RLY	C	R	-	Coach No.	1	9	6	0	6	5	/	C	DATE OF DISPATCH	1	4	-	0	8	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	6	7	FUR.NO.	L3T-1234
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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) 1105 (NPPE) 2) 1104 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame Front Part	PP END M/s-CHENNAI RADHA ENG.	38
		NPP END M/s-CHENNAI RADHA ENG.	38
	Complete	M/s-CHENNAI RADHA ENG.	38
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 M/S- ECBT CHANDIGARH	27
		RH SIDE M/S- ECBT CHANDIGARH	27
4.	End wall	PP END M/s- OMAX REWARI	---
		NPP END M/s- OMAX REWARI	---
5.	Roof	M/s-INDRA	43
6.	Centre Buffer Coupler	M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD.	PP END 1001 NPP END 9965

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	➤ 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	M/s- VIBGYOR	90/88	22.07.19
2.	Insulation			Satisfactory		

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रोडिङ्का, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DISPATCH	SSE/STOCK/CTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	6	7	FUR.NO	L3T-1234
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192025				192026			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1297				AML-061			
Bolster no.	APEX-148				APEX-149			
Axle No	19 P - 6351 RWF		19 P - 7133 RWF		16 P - 6310 RWF		19 P - 2247 RWF	
Wheel Dia	917.526	917.675	917.593	917.654	917.59	917.652	917.614	917.654
Wheel Disc No	TZ 05-19 44378-9PG5	TZ 05-19 43450-9PI8	TZ 05-19 48600-9PE9	TZ 05-19 48601-9PE9	TZ 05-19 42463-9PI4	TZ 05-19 42464-9PI4	TZ 05-19 50907-9PG3	TZ 05-19 48603-9PE9
R.B. Nos.	02-19 00578	02-19 02861	02-19 35526	02-19 01427	02-19 01358	02-19 01513	02-19 01826	02-19 01940
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.	CMFSK04-19- 8835-551-180	CMFSK09-18- 513-111-150	CMFSK04-19- 8835-551-128	CMFSK09-18- 513-111-131	CMFSK04-19- 8836-551-187	CMGBD09-18-513- 111-60	CMFSK04-19- 8836-551-205	CMGBD09-18-513- 111-154
Compressed Ht. at Tested Load	514	468	515	468	512	468	513	468
Alignment deviation (mm)	9	11	9	12	10	11	11	11

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	14290,12558	12549,12559
2.	Primary outer Spring	CMFSK	04-19 7411-551(17,427,243,82)	04-19 7411-551(482,287,40,491)
3.	Primary Inner Spring	CMFSK	05-19 7143-550(1884,2035,7812,1947)	05-19 7143-550 (1800,1795,1946,1830)
4.	Primary Damper	KONI	03-19 (01532,01678,08182,06720)	03-19 (01629,01698,00688,01060)
5.	Secondary Damper	KNORR	01-19 16678,02-19 16845	02-19 (17185,17173)
6.	Lateral Damper	IAI	02-19 241587	02-19 241460
7.	Brake Cylinder	KBI	B(0775,0072,0079,0758)K-29	B(5984,5180,5167,5990)K-29
8.	Brake Caliper	KBI	B(8845,8818,8829,8774)-29	B(1331,3526,3529,3434)-29
9.	Brake Disc	KBI	24185209 0002-14/19,24185209 0003-14/19 24178942 0017-13/19,24178942 0020-13/19	24178943 0027-13/19,24178943 0039-13/19 24178943 0030-13/19,24185203 0038-13/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PPI		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	263,202,147,15	91,132,301,182
22.	Control Arm Lower	SF	201,49,108	325,39,215,10
23.	Phonic Wheel	KNORR	K-03-19	K-03-19

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	3087 25/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 F 8073
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
6.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S- SUNCREST INDS. KOLKATA	
9.	UIC Vestibule (NPPE)	M/S- SUNCREST INDS. KOLKATA	
10.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
11.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Body Side Window	M/s- SHATABDI SAFTY GLASS VODODARA	
13.	Emergency Window	M/s- SHATABDI SAFTY GLASS VADODARA	
14.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
15.	Roof Ceiling	M/s- MOBILY SOLUTION LTD.MOHALI	
16.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
17.	Supply Air Duct	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
18.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
19.	Partition pillar	M/S- JR INDUSTRIES JALANDHAR	
20.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
21.	AC Trough	M/s- MSL (NPP) FIBRO PLASTIC (PP)	
22.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
24.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
26.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES, GURUGRAM	
28.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
29.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (1x450 L)	M/S- MANOJ ENT. MOHALI	
31.	Health Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
32.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
33.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
34.	Lavatory Modules 1,2	M/S- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
35.	Lavatory Modules 3,4	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
36.	Lavatory Doors	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
37.	Fire Extinguisher	M/S- SAFE PRO FIRE SERVICE	PPE-1956 ,NPPE-1950
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
39.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGRAM	
40.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	

SSE/QC/MCF/RBL
 गुणवत्ता विभाग

रेडिंका ०. रायबरेली (लालमज)





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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, 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

वरिष्ठ अभियंता

गुणवत्ता विभाग

723000, रायबरेली (बालगंज)

वरिष्ठ यांत्रिक अभियंता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
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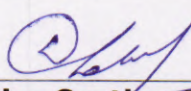
PAGE 1 OF 5

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	196065/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	19.56 Cub mtr/min		OK
3.2	Return Air	67.48 Cub mtr/min		OK
3.3	Exhaust Air	8.25 Cub mtr/min		OK
3.4	Conditioned Air	164.41 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 :23.0°C NPP Side :20.9°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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PAGE 2 OF 5

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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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PAGE 3 OF 5

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 : AMIT ENGG. Sr no of RMPU (NPP side): 3421 C Sr no of RMPU (PP side) : 3727 G Sr no of Microprocessor: AE 19.06.352	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-711	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/07/0063 Sr no.1 : 2827 Sr no.2 : 2854 Sr no.CPA : 2019/07/056-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/DR AUTO	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 : 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
11.	Passenger alarm coach indication light Make : KAVERI	LW 76005,Alt-e	02

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PAGE 4 OF 5

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
14.	Terminal connector Make : WAGO	EDML 037,Rev`a'	04
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 04.	09
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 05.	09
17.	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.	09
18.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am- 1,2&3	01 set
19.	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 : 09/18	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : RADIANT	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : RADIANT	As per LW 71002,Alt- F	01

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PAGE 5 OF 5

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : EEC Sr no: 01190068 Make : BHASIN Sr no: 07194032	EDTS 163,Rev `c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT 5L 18368	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-766	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-1241	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328.REV-C	01 set
29.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119101371	M/s : KNORR	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	00

SSE/EL/QC	AWM(ELECT.)/MCF/RBL
वरिष्ठ अनुभाग अभियन्ता	DY CEE (PLG)/MCF/RBL

गुणवत्ता नियंत्रण
आनरेडिंका / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./L.I./RBL

सं कार्य प्रबन्धक / विद्युत
आनरेडिंका / रायबरेली
A.W.M./Electrical/MCF/RBL

