



# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/659

Coach No.	1	8	3	1	0	4	/	C	DATE OF DISPATCH	1	7	-	0	3	-	1	8
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RLY	N	R	-	-	Type	L	W	A	C	C	N	Shell No.	7	3	2	5	9	-	2	0	1	7	-	1	8
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1. Railway Board's Order No. : 2017/M/(C)/142/2 dated -10-01-2017
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (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	4250
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.	Underframe	M/s Shivalic fastners pvt.ltd. mohali	PP END 006 NPP END 006
	Front Part	M/S MCF/RBL	
	Complete		
2.	Side wall	V4A CONTRACTOR	RH 73259 LH 73259
3.	End wall	M/S E.c.blades & tool pvt. Ltd CDG	PP END 73259 NPP END 73259
	PP END		
	NPP END		
4.	Roof	M/S Indira ind.ranipet chennai	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 2784 NPP END 2798
6.	Buffers	n.a	

### 6. 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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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 -BERGER	SUPPLY & APPLY	89/88
2.	Insulation			Satisfactory	

*[Signature]*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

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RLY	N	R	-	-	Type	L	W	A	C	C	N	Shell No.	7	3	2	5	9	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	171414				171413			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-778				SCI/FM-1556			
Bolster no.	SFPL-228				SFPL-224			
Axle No	17 B-8843RWF		17 B-8282 RWF		17 A-7374 RWF		17 B-8690 RWF	
Wheel Dia	917.513	917.539	917.510	917.530	917.576	917.506	917.631	917.495
Wheel Disc No	TZ 05-17 12248-70H7	TZ05-17 16072-7PJ9	TZ05-17 16468-70M1	TZ05-17 16470-70M1	TZ05-17 12250-70H7	TZ05-17 16961-70N4	TZ05-17 12249-70H7	TZ05-17 16073-70M9
R.B. Nos.	05-17 45505	05-17 58616	06-17 82947	05-17 58624	06-17 79199	06-17 16257	05-17 45500	06-17 16247
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.	CMGBD01-18- 83610-144	CMFSK01-18 9513-354-120	CMGBD01-18 83610-39	CMFSK01-18 9513-354-117	CMGBD12-17 8361-486-126	CMFSK01-18 9513-354-118	CMGBD01-18- 83610-140	CMFSK01-18 9513-354-176
Compressed Ht. at Tested Load	514	468	515	465	515	464	515	467
Alignment deviation (mm)	12	10	12	10	11	7	11	7

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	247,239	242,236
2.	Primary outer Spring	CMGBD	11-17 411139(191,200,149,228)	11-17 411-139(101,124,150,112)
3.	Primary Inner Spring	CMGBD	01-18 143 154( 24,145,130,516)	01-18 143 154(498,530,532,561)
4.	Primary Damper	KNORR	09-17(11734,11716,11827,11822)	07-17(11832,,),09-17(11758,11950,11753)
5.	Secondary Damper	GABRIL	06-17(674,714)	06-17(716,679)
6.	Lateral Damper	SV	06-17 019524	06-17 019524
7.	Brake Cylinder	ESCORT	38970,38921,38917,38969	38946,38904,38902,38949
8.	Brake Caliper	ESCORT	21595,21546,21542,21594	21571,21529,21527,21574
9.	Brake Disc	FAV	02-18(981,982,944,943)D133561-300	02-18(1199,1200,939,940)D133561-300
10.	Ball Joint Control Arm	MTC		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	J101-17		
14.	Ball joint traction lever	MTC		
15.	Ball joint traction centre	MTC		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	SARITA		
21.	Control Arm Upper	RVE	160118-1,-,261017-2,251017-4	-,160118-1,160118-1,261017-2
22.	Control Arm Lower	RVE	150118-2,251017-2,241017-1,241017-1	020118,110118-1,110118-2,241017-1

Signature of SSE/Bogie/QC





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### 11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	2017120051
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1712A051
4.	Foot Step	M/s Super spark pvt.ltd.faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S Twpl mumbai	
7.	PVC	M/s Premier polyfilm, New Delhi	
8.	UIC Vestibule (PPE) *	M/s Elastomer ind. Mumbai	
9.	UIC Vestibule (NPPE)	M/s Elastomer ind. Mumbai	
10.	Gangway bridge mounting (PPE)	M/s Rakesh iron store KXH	
11.	Gangway bridge mounting (NPPE)	M/s Rakesh iron store KXH	
12.	Body Side Window	M/s Rail tech KXH	
13.	Emergency Window	M/s Aikon ind.salon H.P	
14.	Lavatory/hopper Window	M/s Aikon ind.salon H.P	
15.	Roof Ceiling	M/s Hindustan fibre ltd vadodara	
16.	Door way /gang way ceiling	M/s Rail experts . jalandhar	
17.	Supply Air Duct	M/s Amirchand engg.works Jalandhar	
18.	Partition panel	M/s Rail tech KXH	
19.	Partition pillar	M/s Rail tech KXH	
20.	Side Wall panel	M/s-KAE ENGG.U.K	
21.	AC Trough	M/s MSL CDG	
22.	Body Side Door	M/s JBM Faridabad	
23.	Compartment Door (PPE)	M/s Hanspal coach products KXH	
24.	Compartment Door (NPPE)	M/s Hanspal coach products KXH	
25.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
26.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
27.	Bio Tank1,3	M/s Rail tech KXH	
28.	Bio Tank2,3	M/s Rail FAB KXH	
29.	Auxiliary Water Tank	M/s Amit Engg, Baddi	
30.	Under Slung Water Tank ( 2X685L)	M/s Amit Engg, Baddi	
31.	Under Slung Water Tank (1x450 L)	M/s Shivalic fastners pvt.ltd. mohali	
32.	Flexible Faucet	M/s-HF Glass vadodara	
33.	Lotah Filler Tap	M/s-Metco delhi	
34.	Bib cock	M/s KPR ENT.MOHALI	
35.	Lavatory Modoules 3	M/s CMT MACHNISET VADODARA	
36.	Lavatory Modoules 1,2,4	M/s-HF Glass vadodara	
37.	Lavatory Doors	M/s-HF Glass vadodara	
38.	Waste Bin Arrangement	M/s-HF Glass vadodara	
39.	Fire Extinguisher	M/s FIREGO	NPP-5721,PP-5118
40.	Seat & Berth	M/s Oriental veneer products mumbai	
41.	Light Luggage Rack	M/s- Techno ind. ALD	
42.	Snack Table	M/s- International tractors ltd. Hoshiarpur	

SSE/QC/MCF/RBL

महोदय, रायबरेली (लालगंज)



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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

### 15. 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 रेडि0का0, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक यंत्रिक अभियन्ता/गुणवत्ता-1 Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





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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	183104/C
RAILWAY		NR	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	29.55 Cub mtr/min		OK
3.2	Return Air	68.04 Cub mtr/min		OK
3.3	Exhaust Air	8.80 Cub mtr/min		OK
3.4	Conditioned Air	165.54 Cub mtr/min		OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition  Not done due to ambient temp. below 22 <sup>0</sup> C			OK
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  Not done due to ambient temp. below 22 <sup>0</sup> C			OK

**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareilly**



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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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## 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 : <b>LEEL</b> Sr no of RMPU (NPP side): <b>18.00.0478</b> Sr no of RMPU (PP side) : <b>18.00.0871</b> Sr no of Microprocessor: <b>17.12.014/A PAUL</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>ABROL</b> Sr no : <b>11/01/2018</b>	RDSO/PE/SPEC/AC/0184-2015 REV-0	<b>01</b>
03.	Pump equipment with PLC controller & pump box Make : <b>KIND</b> Sr no PA- <b>07/2017/0004</b> Sr no.1 : <b>17070007</b> Sr no.2 : <b>17070008</b> Sr no.CPA : <b>17070050</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Door way/Gangway Light Make : <b>R T VISION</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>07</b>
06.	Provision of Passenger area light(Cabin) Make: <b>R T VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09</b>
07.	Corridor Light with Night light Make: <b>R T VISION</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09</b>
08.	Emergency light system for EOG type coaches (AEL) Make : <b>MAAVE ELECTRONICS PVT LTD</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>R T VISION</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	<b>04</b>
11.	Passenger alarm coach indication light Make : <b>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>

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RCF/RBL



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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 : <b>SSK</b>	EDML 047,Rev nil	<b>04</b>
13.	Terminal strip Make : <b>WAGO</b>	EDML 034,Rev-a	<b>01</b>
14.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item 04.	<b>09</b>
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item 05.	<b>09</b>
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
18.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,Rev- a Am- 1,2&3	<b>01 set</b>
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 : <b>HBL</b> Lug date : <b>12/2017</b>	EDTS 129,Rev nil	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>HITECH</b>	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	<b>01</b>
21.	Battery fuse box +ve Make : <b>INDORAIL</b>	As per LW 71001,Alt- F	<b>01</b>
22.	Battery fuse box -ve Make : <b>SSK</b>	As per LW 71002,Alt- F	<b>01</b>

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : <b>WAVES</b> Sr no: <b>WEBCE-172716</b> Make: <b>MB COMPANY</b> Sr no: <b>2017/09/314</b>	EDTS 163, Rev 'c' corg.-2&3	<b>02</b>
24.	Provision of 5KVA TFR Make : <b>VIMAL</b> SL.no : <b>311</b>	As Per EDTS-366, REV-NIL & CC-71510	<b>01</b>
25.	Provision of capacitor Bank Make : <b>S INTERNATIONAL</b> SL.no : <b>186-12/2017</b>	As per EDML-130 Rev-1, Corr-1	<b>01</b>
26.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>5044</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
27.	Inter Vehicle (ZS) coupler Make: <b>PRIME ELECTRONICS</b>	As per RDSO PE SPEC-0177-2013 REV-0	<b>01 set</b>
28.	Feeder junction boxes. Make : <b>ISG</b>	EDTS-328 REV-C	<b>01 set</b>
29.	Wheel set earthing equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101, REV-C, AM-1	<b>02 sets</b>
30.	Wheel Slide Protection System (WSP) Make : <b>ESCORTS</b> Sr no : <b>16023-105421-0027</b>	M/s : <b>ESCORTS</b>	<b>01 set</b>
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : <b>SUPER REFRIGRATION</b>	As per EDTS -139, Rev- E ,Sec II.	<b>01</b>

 <b>SSE/EL/QC</b> दूरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ0रेडि0का0/लालगंज/रायबरेली Dy.C.E.E./Elect-QC/M.C.F./LLJ/RBL	 <b>SEE(P)/MCF/RBL/</b> <b>DYCEE/P&amp;P/MCF/RBL</b> उप मुख्य विद्युत अभियन्ता उत्पादन एवं योजना आ0रेडि0का0/लालगंज/रायबरेली Dy.C.E.E./Prod & Plg/M.C.F./LLJ/RBL
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