

L3T-988



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/641

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19																								
RLY	N	W	R	Coach No.	1	8	1	7	3	5	/	C	DATE OF DISPATCH	1	3	-	1	0	-	1	8			
DISPATCH TO	Sr.DME(C&W)/JAIPUR			Type	L	W	A	C	C	N	Shell No.	8	3	2	3	9	-	2	0	1	8	-	1	9
Railway Board's Order No. :												2018/M(C)/142/2 dated -14-09-2018												

1. Railway Board's Order No. : 2018/M(C)/142/2 dated -14-09-2018

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) 1096 (NPPE) 2) 1103 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/s-SICO
		NPP END	M/s-SICO
	Complete	M/s-SICO	195
2.	Lav.side wall	M/s-CONTRACTOR V4U	LAV.1 567 LAV.2 568
		M/s-CONTRACTOR V4U	LAV.3 569 LAV.4 570
3.	Side wall	LH SIDE	M/s-CONTRACTOR V4U
		RH SIDE	M/s-CONTRACTOR V4U
4.	End wall	PP END	M/S -ECBT, CHANDIGARH
		NPP END	M/s- OMAX, GURUGAON
		M/s -DTL	82
5.	Roof	M/s -DTL	PP END 7220 NPP END 7170
6.	Centre Buffer Coupler	M/s-SANROK, FARIDABAD	

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 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

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	88/87
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL



MODERN COACH FACTORY, RAEBARELI

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DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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Coach No.	1	8	1	7	3	5	/	C	-	DATE OF DISPATCH	1	3	.	1	0	.	1	8							
RLY	N	W	R		Type	L	W	A	C	C	N	Shell No.	8	3	2	3	9	-	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181510				181509			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-1097				MCF/RBL-1098			
Bolster no.	SFPL-363				AMIT-804			
Axle No	17D-3694 RWF		18 D-8171RWF		18D-9125 RWF		17 D-2649 RWF	
Wheel Dia	917.686	917.575	917.696	917.612	917.572	917.678	917.678	917.571
Wheel Disc No	TZ-07-18 33995-8RH1	TZ-06-18 29897-8QM1	TZ-06-18 29899-8QM1	TZ06-18 31181-8RG6	TZ07-18 33993-8RG1	TZ07-18 33835-8QM2	TZ06-18 29895-8QM1	TZ06-18 29896-8QM1
R.B. Nos.	04-18 25901	05-18 27185	04-18 24663	04-18 24702	04-18 25948	04-18 24448	05-18 27198	05-18 25909
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.	CMRSK08-18F16-532-16Y-198	CMRSK10-17F19-R98-19Y-1007	CMRSK08-18-F16-508-16Y-246	CMRSK10-17F19-R88-19Y-995	CMRSK02-18-F16-507-16Y-179	CMRSK10-17F19-R88-19Y-1034	CMRSK02-18F16-S08-16Y-325	CMRSK10-17F19-R87-19Y-1089
Compressed Ht. at Tested Load	513	468	513	468	514	468	513	468
Alignment deviation (mm)	10	41	10	41	7	32	7	32

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	398,354	227,350
2.	Primary outer Spring	RSK	08-18-03Y (4433,4177,4149,4203)	07-18-03Y 2423, 08-18-03Y (4304,3882,3884)
3.	Primary Inner Spring	YR	12-17 (5.12-41,3.87-2,5.15-38,4.56-21)	12-17 (5.12-41,3.87-2,5.15-38,4.56-21)
4.	Primary Damper	KNOOR	07-18(26793,26794,26798,26803)	07-18(26792,26757,26795,26797)
5.	Secondary Damper	KNORR	06-18(5071,5074)	06-18 (5072,5075)
6.	Lateral Damper	KNORR	06-18 3875	03-18 1982
7.	Brake Cylinder	FAV	G18-622,G18-595,H18-374,H18-610	G18(515,533,598,627)
8.	Brake Caliper	FAV	K18-(495,493,561,563)	K18(727,725,494,496)B
9.	Brake Disc	FAV	08-18(1492,1570,1486,1571) -D133561-300	08-18 (1572,1439,1487,1485)- D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA /AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	170818-1,170818-2,120818-2,170818-1	120818-1,280718-2,120818-2,180718-1
22.	Control Arm Lower	RVE	170818-2,410818-1,410818-1,030818-1	030818-1,160818-1,170818-1,130818-1

Signature of SSE/Bogie/QC



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DISPATCH TO	Sr.DME(C&W)/JAIPUR	Type	L	W	A	C	C	N	Shell No.	8	3	2	3	9	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)	D 18016 B
2.	Pull box	M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)	
3.	Distribution valve	M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)	18045513 B
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR INDUSTRIES, FARIDABAD	
6.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
7.	PVC	M/s- RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/S- ELASTOMER LINING WORKS, MUMBAI	
9.	UIC Vestibule (NPPE)	M/S- ELASTOMER LINING WORKS, 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, KHX	
13.	Emergency Window	M/S- RAIL TECH, KHX	
14.	Lavatory/hopper Window	M/S- AIKON IND.SALON H.P	
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- HANSPAL TRADERS, KXH	
18.	Partition panel	M/S- RAIL TECH, KHX	
19.	Partition pillar	M/S- JR INDS. JALANDHAR	
20.	Side Wall panel	M/S HINDUSTAN FIBRE LTD. VADODARA	
21.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
22.	Body Side Door	M/S- JVR INDUSTRIES ,LDH	
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 Tank LAV-2,4	M/s- FLASH FORGE (P) LTD. VIZAG	
28.	Bio Tank LAV-1,3	M/S- MOHAN RAIL COMPONENT	
29.	Auxiliary Water Tank	M/s- AMIT ENGG, MOHALI	
30.	Under Slung Water Tank (2X685L)	M/S SHIVALIC FASTNERS PVT.LTD. MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENGG, MOHALI	
32.	Flexible Faucet	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
33.	Lotah Filler Tap	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
34.	Bib cock	M/s- KPR INDUSTRIES LTD. MOHALI	
35.	Lavatory Modules	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
36.	Lavatory Doors	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
37.	Fire Extinguisher	M/s- SAFE TECH FIRE SERVICE LTD.	PP-96,NPP-88
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
39.	Light Luggage Rack	M/S- TECHNO IND. ALD	
40.	Snack Table	M M/s- DLJM INDUS. NOIDA	

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DISPATCH TO	Sr.DME(C&W)/JAIPUR			Type	L	W	A	C	C	N	Shell No.	8	3	2	3	9	-	2	0	1	8	-	1	9

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	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरि०अनु० अभियन्ता
गुणवत्ता विभाग

सहायक यांत्रिक अभियन्ता/गुणवत्ता-1
Assistant Mechanical Engineer / Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

सुधीर कुमार
उप मुख्य रसायनज्ञ एवं धातुविद
Dy. Chief Chemist & Metallurgist
आधुनिक रेल डिब्बा कारखाना, रायबरेली



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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	181735/C
RAILWAY		NWR	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	72.25 Cub mtr/min		OK
3.3	Exhaust Air	7.04 Cub mtr/min		OK
3.4	Conditioned Air	145.50 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 :21.3 °C NPP Side :22.5 °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			OK

Senior Section Engineer
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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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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): 2219-K Sr no of RMPU (PP side) : 2873-H Sr no of Microprocessor: AE-18.08.811	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 222-08/2018	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2018/09/057 Sr no.1 : 18060079 Sr no.2 : 18060051 Sr no.CPA : 2018/09/009	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 : ECOFIT	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : DR AUTO	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: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : CONCORD CONTROL SYSTEM.	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : ARHAM	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: AGASTYA	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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
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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
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 : HBL Lug date : 05/17	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : ANKUR ENGG.	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : AECO	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : SSK	As per LW 71002,Alt- F	01


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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : WAVES Sr no: WEBCF-184561 Make : WAVES Sr no: WEBCG-184681	EDTS 163, Rev 'c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : VIMAL SL.no : -256	As Per EDTS-366, REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : S.INTERNATIONAL SL.no : 310-02/18	As per EDML-130 Rev-1, Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : -6253	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS) coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : ISG	EDTS-328 REV-C	01 set
29.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES.	EDTS101, REV-C, AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 02/18/172	M/s : FAIVELEY	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

गुणवत्ता नियंत्रण
आउटरीडिंग / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
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