

L2T-969



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/2018-19/524

RLY	C	R	-	Coach No.	1	8	1	4	8	6	/	C	DATE OF DISPATCH	2	0	-	0	9	-	1	8
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DISPATCH TO	Sr.DME/COG/BB	Type	L	W	A	C	C	N	Shell No.	8	3	1	6	8	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M/(C)/142/2 dated -14-09-2018
- Tare Weight of Coach : 45.6 Tonnes
- 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) 1102 (NPPE) 2) 1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Neera chandigarh NPP END M/S E.c.blades & tool Pvt. Ltd CDG
		Complete	MCF/RBL
2.	Lav.side wall	M/S COMPETENT ENGG.	LAV.1 - LAV.2 -
		M/S COMPETENT ENGG.	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE	MCF/RBL (CONTRACTOR V4U)
		RH SIDE	MCF/RBL (CONTRACTOR V4U)
4.	End wall	PP END	M/S Omax auto gurgaon HR
		NPP END	M/S Omax auto gurgaon HR
5.	Roof	M/S DTL ancillaries ltd pune	73
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 5557 NPP END 5613

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 -GS	SUPPLY & APPLY	88/87
2.	Insulation			Satisfactory	

(Signature)
SSE/QC/MCF/RBL

वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रेडिओकार, रायबरेली (लालगंज)



MCF/RBL/QC/RSC/2018-19/524



MODERN COACH FACTORY, RAEBARELI
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R		Type	L	W	A	C	C	N	Shell No.	8	3	1	6	8	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181428				181427			
Bogie Type	LWACCN				LWACCN			
Frame no.	VS/RBL-1216				VS/RBL-1224			
Bolster no.	SFPL-217				AMIT-199			
Axle No	18F -8826 RWF		18 F -9383 RWF		18 F- 8793 RWF		1 8D - 8898RWF	
Wheel Dia	917.53	917.639	917.554	917.652	917.553	917.679	917.558	917.651
Wheel Disc No	TZ-07-18 34892-8QL6	TZ-07-18 35586-8QN5	TZ-06-18 29814-8QP1	TZ07-18 33032-8QP6	TZ06-18 30148-8QM6	TZ06-18 29821-8QP7	TZ03-18 07092-8MV9	TZ06-18 29699-8QP1
R.B. Nos.	06-18 11319	06-18 11639	06-18 12263	06-18 11359	05-18 08148	05-18 08850	04-18 24974	05-18 27571
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

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.	CMFSK09-18- 8836-456-41	CMFSK07-18- 9513-443-107	CMFSK09-18- 8836-456-40	CMFSK07-18- 9513-443-158	CMFSK09-18-8836- 456-80	CMFSK07-18-9513- 443-106	CMFSK07-18- 8836-3601-90	CMFSK07-18-9513- 443-267
Compressed Ht. at Tested Load	514	465	515	466	511	465.9	511	465
Alignment deviation (mm)	9	7	10	7	8	9	7	9

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	11,102	186,257
2.	Primary outer Spring	RSK	07-18 03Y- (1683,2742,1672,1878)	08-18 03Y(4723,2708,1700,1646)
3.	Primary Inner Spring	YR	12-17 03Y (513,500,497,494)	12-17(1.32-495,0.86-511,1.74-496,5.05-530)
4.	Primary Damper	KNORR	08-18(00904,00906,00970,00968)	06-18(00972,00933,00918,000909)
5.	Secondary Damper	KNORR	07-18 (5469,5465)	07-18(5470,5466)
6.	Lateral Damper	KNORR	06-18 3943	06-18 3942
7.	Brake Cylinder	ESCORT	44707,45236,45187,44636	44271,44309,44311,44270
8.	Brake Caliper	ESCORT	24766,25175,25121,24695	24502,24454,24456,24501
9.	Brake Disc	FAV	08-18(1252,1306,1192) -D133561-300	08-18(1256,1208,1304,1302) -D133561-300
10.	Ball Joint Control Arm	PRAG		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI/SF		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/PRAG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	250718-2,RVE,051818-3,RVE	120818-2,130818-1,20818-1,200818-1
22.	Control Arm Lower	RVE	410818-1,140818-1,RVE,170818-1	RVE,030818-1,030818-1,170818-1

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	2018020013
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1802A013
4.	Foot Step	M/s HI TECH INER AVENTUROS PVT. LTD. RBL	
5.	Decoupling arrangement	M/s ELASTOMER MUMBAI	
6.	Floor board	M/s NARMADA FOREST BHOPAL	
7.	PVC	M/s RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/s ELASTOMER MUMBAI	
9.	UIC Vestibule (NPPE)	M/s ELASTOMER 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 Birkan engg.pvt.ltd. GAZIABAD	
13.	Emergency Window	M/s Birkan engg.pvt.ltd. GAZIABAD	
14.	Lavatory/hopper Window	M/s Aikon ind.salon H.P	
15.	Roof Ceiling	M/s MOBILITY SOLUION LTD MOHALI	
16.	Door way /gang way ceiling	M/s GANDHI SAFE & ALLIED Jalandhar	
17.	Supply Air Duct	M/s Amirchand engg.works Jalandhar	
18.	Partition panel	M/S Rail tech pvt.ltd. KXH	
19.	Partition pillar	M/S JR IND. Jalandhar	
20.	Side Wall panel	M/s Hindustan fibre ltd ,vadodara	
21.	AC Trough	M/s MOBILITY SOLUION LTD MOHALI	
22.	Body Side Door	M/s JBM, Faridabad	
23.	Compartment Door (PPE)	M/s KALSI FAB PVT. LTD.	
24.	Compartment Door (NPPE)	M/s KALSI FAB PVT. LTD.	
25.	Vestibule Door(PPE)	M/s JBM, Faridabad	
26.	Vestibule Door(NPPE)	M/s JBM, Faridabad	
27.	Bio Tank	M/s FLASH FORGE VIZAG	
28.	Auxiliary Water Tank	M/s MANOJ . mohali	
29.	Under Slung Water Tank (2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
30.	Under Slung Water Tank (1x450 L)	M/s Amit Engg, Mohali	
31.	Flexible Faucet	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
32.	Lotah Filler Tap	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
33.	Bib cock	M/s KPR IND.	
34.	Lavatory Modoules	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
35.	Lavatory Doors	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
36.	Fire Extinguisher	M/s SAFE PRO	NPP-2271,PP-2275
37.	Seat & Berth	M/s Oriental veneer products mumbai	
38.	Light Luggage Rack	M/s- Techno ind. ALD	
39.	Snack Table	M/s- MACHINO PLASTIES LTD. GURGAON	

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान विभाग
गुणवत्ता विभाग
रेडिंक 0, रायबरेली (जालमंड)





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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	REFERENCE &
			Frequency	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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. 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 वरिष्ठ अनुसंधान अधिकारी गुणवत्ता विभाग रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना/गुणवत्ता-1 Assistant AME/QC/MCF/RBL / Quality 1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Sudhir Kumar 28/9. Dy. COM/MCF/RBL उप मुख्य रेल डिब्बा एवं धातुविद Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





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	181486/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	16.42 Cub mtr/min	OK
3.2	Return Air	38.49 Cub mtr/min	OK
3.3	Exhaust Air	5.83 Cub mtr/min	OK
3.4	Conditioned Air	160.23 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 : 22.9 °C NPP Side : 21.7 °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	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): 2862-H Sr no of RMPU (PP side) : 2853-H Sr no of Microprocessor: AE-18.07.802	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-17-06-0068	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA : 7328/7/2018 Sr no.1 : 294734 Sr no.2 : 294735 Sr no.CPA : 7251/06/2018	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	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO + RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO + RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : MAAVE ELECT.	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : NIL	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 : DR AUTO	LW 76005,Alt-e	02

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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 : INTEG	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : INTEG	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: WEBCG-184767 Make : WAVES Sr no: WEBCG-184784	EDTS 163,Rev `c` corg.- 2&3	02
24.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC-3089-LHB-198	As Per EDTS-366,REV- NIL & CC-71510	01
25.	Provision of capacitor Bank Make : STANDARD CAPACITORS SL.no : 17C 413	As per EDML-130 Rev- 1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-6274	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 : NEC	EDTS-328 REV-C	01 set
29.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 18005559399-0031	M/s : ESCORT	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGERATION	As per EDTS -139, Rev- E ,Sec II.	01

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