



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/558

RLY	C	R	-	Coach No.	1	8	1	4	8	7	/	C	DATE OF DISPATCH	2	6	-	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	9	-	2	0	1	8	-	1	9
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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) 1105 (NPPE)	2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER		SERIAL NO			
1.	Underframe	Front Part	PP END	M/S KANSAL ENGG.	03			
			NPP END	M/S KANSAL ENGG.	03			
	Complete	M/S KANSAL ENGG.		03				
2.	Lav.side wall		M/S COMPETENT ENG.	LAV.1	---	LAV.2	---	
			M/S COMPETENT ENG.	LAV.3	---	LAV.4	---	
3.	Side wall	LH SIDE	M/S CONTRACTOR V4U		153			
		RH SIDE	M/S CONTRACTOR V4U		153			
4.	End wall	PP END	M/S RAIL TECH		18			
		NPP END	M/S P.D. STEEL		18			
					02			
5.	Roof	M/s PENNAR						
6.	Centre Buffer Coupler	M/S ESCORT		PP END	5481	NPP END	5505	

6. 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 . OK	07 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/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	90/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

मुनिपल विभाग
रेडिओका, रायबरेली (जायपंज)





MODERN COACH FACTORY, RAEBARELI
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RLY	C	R		Type	L	W	A	C	C	N	Shell No.	8	3	1	6	9	-	-	-	-	-	-	-	-
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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181425				181426			
Bogie Type	LWACCN				LWACCN			
Frame no.	VS-1223				VS/RBL-1227			
Bolster no.	AMIT-107				SFPL-216			
Axle No	18F -8820RWF		18 F -8892 RWF		18 F- 8460RWF		18F - 9382RWF	
Wheel Dia	917.513	917.608	917.561	917.561	917.523	917.674	917.512	917.318
Wheel Disc No	TZ-07-18 35638-8QL6	TZ-07-18 33990-8RG3	TZ-07-18 35653-8QL6	TZ07-18 35651-8QM9	TZ07-18 34895-8QL6	TZ07-18 34896-8QL6	TZ07-18 33986-8RH1	TZ07-18 34216-8QN3
R.B. Nos.	05-18 37156	05-18 27310	04-18 25570	05-18 37230	06-18 10422	06-18 11308	05-18 09573	05-18 09600
CT R B Make	SKF		SKF		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- 8836-456-281	CMFSK07-18- 9513-443-200	CMFSK07-18- 8836-3601-6	CMFSK07-18- 9513-443-131	CMFSK-09-18- 8836-456-16	CMFSK-07-18-9513 443-149	CMRSK09-18- 8836-454	CMFSK07-18-9513- 443-14
Compressed Ht. at Tested Load	515	465	515	466	510	464.5	512	468
Alignment deviation (mm)	13	13	6	13	11	12	13	12

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	9527,9520,	9522,9528
2.	Primary outer Spring	RSK	08-18 03Y- (2810,1777,1872,4569)	08-18 03Y(1624,1871,-,1839)
3.	Primary Inner Spring	YR	12-17(0.37-502,3.31-501,2.38-493,7.23-533)	12-17(4.56-512,8.18-537,2.71-532,1.55-535)
4.	Primary Damper	GBES	08-18(0966,0098,00967,00976)	08-18(00974,00964,00965,00962)
5.	Secondary Damper	KNORR	07-18 (5461,5386)	07-18(5472,5468)
6.	Lateral Damper	KNORR	06-18 3894	06-18 3939
7.	Brake Cylinder	ESCORT	44435,44421,45237,44709	44637,45181,44423,44634
8.	Brake Caliper	ESCORT	24694,24602,25176,24468	24696,25120,24603,24693
9.	Brake Disc	FAV	08-18(1211,1339,1253,1340) -D133561-300	08-18(1207,1212,1210,1209)-D133561-300
10.	Ball Joint Control Arm	PRAG/AR		
11.	Lateral Bump Stop	AR		
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	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	RVE,200818-1,RVE,120818-1	170818-2,120818-1, 120818-1, 120818-1,
22.	Control Arm Lower	RVE	410818-1,450818-1,170818-1,RVE	170818-1,160818-1,030818-1,RVE

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	2018020005
2.	Pull box	M/s Faively trans. tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1802A005
4.	Foot Step	M/s HITECH INER AVENTUROS PVT. LTD. RBL	
5.	Decoupling arrangement	M/s ELASTOMER LINING WORKS. MUMBAI	
6.	Floor board	M/s NARMADA FOREST PVT. LTD. BHOPAL	
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 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 SOLUTION 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, KHX	
19.	Partition pillar	M/s JR IND. Jalandhar	
20.	Side Wall panel	M/s Hindustan fibre ltd ,vadodara	
21.	AC Trough	M/s MOBILITY SOLUTION LTD. MOHALI (PP) (NPPE)	
22.	Body Side Door- 1	M/s JVR INDUSTRIES LTD. LDH	
23.	Body Side Door -2,3,4	M/s JBM INDUSTRIES LTD.FARIDABAD	
24.	Compartment Door (PPE)	M/s KALSI FAB PVT. LTD.	
25.	Compartment Door (NPPE)	M/s KALSI FAB PVT. LTD.	
26.	Vestibule Door(PPE)	M/s JBM, Faridabad	
27.	Vestibule Door(NPPE)	M/s JBM, Faridabad	
28.	Bio Tank	M/s FLASH FORGE(P) LTD. VIZAG	
29.	Auxiliary Water Tank	M/s Manoj Engineering, 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 Modoules	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 PRO FIRE SERVICE	NPP-2265,PP-2261
38.	Seat & Berth	M/s Oriental veneer products, mumbai	
39.	Light Luggage Rack	M/s- Techno ind. ALD	
40.	Snack Table	M/s- MACHINO PLASTIES LTD. GURGAON	


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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 & PERIOD OF TRIAL
			Frequency	

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.

वरिष्ठ अभियंता SSE/QC/MCF/RBL रायबरेली (लालगंज)	जी.एस. पाण्डेय G.S. Pandey Assistant Mechanical Engineer/Quality Modern Coach Factory, Raebareli	डी.सी.एस. सिंघ Dy. Chief Quality Manager 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	181487/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	42.91 Cub mtr/min	OK
3.3	Exhaust Air	7.26 Cub mtr/min	OK
3.4	Conditioned Air	160.70 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 : 22.8 °C NPP Side : 21.0 °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


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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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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): 2860-H Sr no of RMPU (PP side) : 2863-H Sr no of Microprocessor: AE-18.07.787	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-208	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA : 7280/7/2018 Sr no.1 : 293314 Sr no.2 : 293315 Sr no.CPA : 7278/07/2018	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: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO	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 : DARSHAN/ARHAN	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 : AMARA RAJA Lug date : 19/05/18	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-184794 Make : WAVES Sr no: WEBCG-184696	EDTS 163,Rev `c' corg.- 2&3	02
24.	Provision of 5KVA TFR Make : AUTOMATIC Elect Ltd SL.no : 3/17/T509081/143	As Per EDTS-366,REV- NIL & CC-71510	01
25.	Provision of capacitor Bank Make : STANDARD CAPACITORS SL.no : 17C 426	As per EDML-130 Rev- 1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-4702	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 earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 170325-12253-0037	M/s : ESCORT	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	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL
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आधुनिक रेल डिब्बा कारखाना / लखनऊ / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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