



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/2018-19/567

RLY	C	R	-	Coach No.	1	8	1	4	8	9	/	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	9	8	-	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) 1095 (NPPE)	2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER		SERIAL NO				
1.	Underframe	Front Part	PP END	M/S SICO	188			
			NPP END	M/S SICO	188			
	Complete	M/S SICO		188				
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		171			
		RH SIDE	M/S CONTRACTOR V4U		171			
4.	End wall	PP END	M/S P.D. STEEL, PANCH KULA		18			
		NPP END	M/S P.D. STEEL, PANCH KULA		18			
		M/s DTL		76				
5.	Roof	M/s DTL		76				
6.	Centre Buffer Coupler	M/S ESCORT		PP END	5662	NPP END	5525	

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	08 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	89/88
2.	Insulation			Satisfactory	

Rama
SSE/QC/MCF/RBL

पुनर्विभाग
रेलवे, रायबरेली (लालगंज)





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

ITEMS	NPP Side				PP Side			
Bogie No	181380				181379			
Bogie Type	LWACCN				LWACCN			
Frame no.	VS/RBL-1207				VS/RBL-1202			
Bolster no.	MCF/RBL-1494				MCF/RBL-1868			
Axle No	18D-8189 RWF		18 D-8295 RWF		17 D-3324 RWF		17 D-3607RWF	
Wheel Dia	917.543	917.606	917.527	917.599	917.57	917.653	917.564	917.564
Wheel Disc No	TZ-03-18 07289-8MV9	TZ-03-18 07412-8MP6	TZ-03-18 07290-8MV9	TZ03-18 07413-8MP6	TZ05-18 17883-8MX1	TZ11-17 33705-7SH5	TZ02-18 06027-8MQ7	TZ02-18 06028-8MJ6
R.B. Nos.	02-18 15258	04-18 22086	02-18 16413	04-18 23424	04-18 24158	04-18 23342	04-18 22438	04-18 23336
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.	CMRSK08-18- F16-S34-16Y-177	CMFSK07-18- 9513-443-83	CMRSK08-18- F16-S34-16Y-114	CMFSK07-18- 9513-443-265	CMRSK02-18-F16- S07-16Y-45	CMFSK07-18-9513- 443-153	CMRSK08-18- F16-S34-16Y-171	CMFSK07-18-9513- 443-262
Compressed Ht. at Tested Load	510	463	510	468	514	467	512	464
Alignment deviation (mm)	14	9	14	8	12	13	14	13

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	9548,9534	9518,8842
2.	Primary outer Spring	RSK	07-18 03Y- (26,999,953,337)	07-18 03Y(608,811,645,497)
3.	Primary Inner Spring	CMGBD	05-18-143 58 (-402,366,116,393)	05-18-143 (59-414,59-448,59-262,58-19)
4.	Primary Damper	GBES/KNORR	07-18(27837,27851,27844,26716)	07-18(27848,27870,27846,27845)
5.	Secondary Damper	KNORR	06-18 (5287,5159)	06-18 (5146,5153)
6.	Lateral Damper	KNORR	06-18 4228	06-18 4229
7.	Brake Cylinder	ESCORT	39783,39360,44071,44235	44233,44070,44151,44236
8.	Brake Caliper	ESCORT	22281,21889,24205,24415	24413,24204,24331,24416
9.	Brake Disc	FAV	08-18(1248,1247,1120,1129) -D133561-300	08-18(1126,863,864,862)-D133561-300
10.	Ball Joint Control Arm	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	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	280718-1,040818-4,040818-4,040818-4	RVE, RVE, RVE,040818-4
22.	Control Arm Lower	RVE	030818-1,030818-1,030818-1,RVE	030818-1,030818-1, RVE,010718-1

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	2018020003
2.	Pull box	M/s Faively trans. tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1802A023
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-Suncrest ind.kolkata	
9.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
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 Birkan engg.pvt.ltd. GAZIABAD	
15.	Roof Ceiling	M/s- CENTURY POLYMER (CP) VADODARA	
16.	Door way /gang way ceiling	M/s GANDHI SAFE & ALLIED, JALANDHAR	
17.	Supply Air Duct	M/s Hanspal coach products KXH	
18.	Partition panel	M/S- MILTON INDUSTRIES LTD,AHAMADABAD	
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 1,3	M/S- JVR INDUSTRIES, LDH	
23.	Body Side Door 2,4	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 INDUSTRIES LTD.FARIDABAD	
27.	Vestibule Door(NPPE)	M/s JBM INDUSTRIES LTD.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 LAXMI FABRICATOR, MUMBAI	NPP-1535,PP-1529
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	

[Signature]
SSE/QC/MCF/RBL



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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.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy. COM/MCF/RBL
रेडिफिकार, रायबरेली (सालमंज)	आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	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	181489/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	19.32 Cub mtr/min	OK
3.2	Return Air	45.22 Cub mtr/min	OK
3.3	Exhaust Air	7.15 Cub mtr/min	OK
3.4	Conditioned Air	160.26 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 : 20.3 °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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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): 2814-E Sr no of RMPU (PP side) : 2797-G Sr no of Microprocessor: AE-18.07.789	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-18-08-0178	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : KIND Sr no PA : 0074 Sr no.1 : 18080147 Sr no.2 : 18080148 Sr no.CPA : 18080050	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/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 : 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 : 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: WEBCD-184061 Make : WAVES Sr no: WEBCG-184703	EDTS 163,Rev `c' corg.- 2&3	02
24.	Provision of 5KVA TFR Make : AUTOMATIC Elect Ltd SL.no : 6/17/T509081/223	As Per EDTS-366,REV- NIL & CC-71510	01
25.	Provision of capacitor Bank Make : STANDARD CAPACITORS SL.no : 18C 430	As per EDML-130 Rev- 1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-4698	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 : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 170325-12253-0048	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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वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंग/लाभ/रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, उत्तरांचल
Sr. Electrical Engineer / RCF / RBL

