



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/2017-18/353

Coach No.	1	7	1	1	6	/	C	-	DATE OF DISPATCH	1	5	-	1	1	-	1	7
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RLY	E	C	R	-	Type	L	W	A	C	C	N	Shell No.	7	3	0	8	7	-	2	0	1	7	-	1	8
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1. Railway Board's Order No. : 2017/M/(C)/142/2 dated -21-09-17
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) 1101 (NPPE) 2) 1096 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

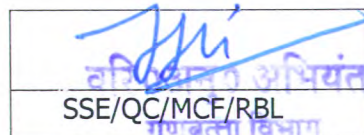
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Sidhu ind.corporation KXH	PP END	847	NPP END	857
		Complete	M/S MCF/RBL				
2.	Side wall		M/S MCF/RBL	RH	73087	LH	73087
3.	End wall	PP END	M/s Amit Engg, Baddi	PP END	73087	NPP END	73087
		NPP END	M/s Amit Engg, Baddi				
4.	Roof		M/S MCF/RBL				
5.	Centre Buffer Coupler		M/S Sanrok faridabad	PP END	3901	NPP END	3932
6.	Buffers		n.a				

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	➤ 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 DAETAILS:

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	91/88
2.	Insulation			Satisfactory	



रेजिस्ट्रार, रायबरेली (क.न.नं.)



अधिकारी / रायबरेली



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8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	170687				170688			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-0537				VS/RBL-557			
Bolster no.	MCF/RBL/VS-119				MCF/RBL/VS-177			
Axle No	17W-8126		17W-3088		Y-1210		W-8085	
Wheel Dia	917.478	917.526	917.335	917.548	917.531	917.507	917.488	917.523
Wheel Disc No	TZ05-17 12146-70K2	TZ05-17 12147-70K2	TZ04-17 09879-70P1	TZ05-17 14898-7PK0	TZ05-17 12996-70J1	TZ05-17 13024-70J1	TZ05-17 13637-70L1	TZ03-17 04258-70K7
R.B. Nos.	02-17 01603	02-17 02168	02-17 01678	02-17 01717	02-17 01968	02-17 02254	01-17 01175	02-17 01679
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMFSK-04-17 F16-169-23	CMGBD-07-17 S1375-309	CMFSK-04-17 F16-169-57	CMGBD-07-17 F16-169-275	CMFSK-04-17 F16-169-36	CMGBD-07-17 S1375-332	CMFSK-04-17 F16-169-66	CMGBD-07-17 S1375-339
Compressed Ht. at Tested Load	510	466	510.5	467	514	468	514	467
Alignment deviation (mm)	08	07	10	07	11	11	10	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Yaw Damper	GEREP	194,108	106,43
2.	Primary outer Spring	CVFSK	05-17-F03-410(360,75,335,355)	03-17-F03-220(619,341),05-17-F03-410-208,03-17-F03-220-639
3.	Primary Inner Spring	CVFSK	06-17-7143-284(02,83,22,37)	06-17-7143-284(33,84,63,03)
4.	Primary Damper	KNORR	07-17(9657,9661,9680,9687)	07-17(9696,9652,9650,9662)
5.	Secondary Damper	KONI	15-2016-7093,20-2016-9751	20-2016-8648,15-2016-7187
6.	Lateral Damper	KONI	42-2016 5867	42-2016-5887
7.	Brake Cylinder	KBI	7781K-29,7608K-29,7607K-29,7779K-29	7780K-29,7705K-29,7708K-29,7781K-29
8.	Brake Caliper	KBI	6998-29,7063-29,7062-29,6999-29	7000-29,7159-29,7162-29,7001-29
9.	Brake Disc	KBI	24104274-0005-25-17, 24105589-0029-26-17, 24104275-0040-26-17, 24104275-0039-26-17,	24104275-0033-26-17, 24104275-0031-26-17, 24104275-0029-26-17, 24104275-0032-26-17,
10.	Ball Joint Control Arm	S-BLOC		
11.	Lateral Bump Stop	MTC		
12.	Traction Centre make	SARITA/EMSON		
13.	Traction lever make	JI-01-17		
14.	Ball joint traction lever	S-BLOC/MTC		
15.	Ball joint traction centre	MTC/S-BLOC		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	MTC		
18.	Anti roll bar make	SARITA/EMSON		
19.	Roll Link make	SARITA/ GMT		
20.	Fork make	SARITA		

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 KBI Faridabad. New Delhi	PASS17G2520
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2017G3418
4.	Foot Step	M/s Super spark pvt.ltd.faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S Narbada forest bhopal	
7.	PVC	M/s-Responsive ind. Delhi	
8.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
9.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
10.	Gangway bridge mounting (PPE)	M/s Mahaveer metal workshop KXH	
11.	Gangway bridge mounting (NPPE)	M/s Mahaveer metal workshop KXH	
12.	Body Side Window	M/s Rail tech KXH	
13.	Emergency Window	M/s Rail tech KXH	
14.	Lavatory/hopper Window	M/s Shatabdi safety glass vadodara	
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 Honey comb associate bagaularu	
19.	Partition pillar	M/s Rail tech KXH	
20.	Side Wall panel	M/s-Hindustan fibre ltd vadodara	
21.	AC Trough	M/s MSL CDG	
22.	Body Side Doors 1,3	M/s Sukata CDG	
23.	Body Side Doors 2,4	M/s JBM Faridabad	
24.	Compartment Door (PPE)	M/s Hanspal coach products KXH	
25.	Compartment Door (NPPE)	M/s Hanspal coach products KXH	
26.	Vestibule Door(PPE)	M/s Kalsi LDH	
27.	Vestibule Door(NPPE)	M/s Kalsi LDH	
28.	Bio Tank	M/s Rail tech KXH	
29.	Auxiliary Water Tank	M/s Amit Engg, mohali	
30.	Under Slung Water Tank (2X685L)	M/s Amit Engg, Baddi	
31.	Under Slung Water Tank (1x450 L)	M/s Amit Engg, mohali	
32.	Flexible Faucet	M/s-HF Glass vadodara	
33.	Lotah Filler Tap	M/s-Metco delhi	
34.	Bib cock	M/s Jaquar pvt.ltd. alwar Rajisthan	
35.	Lavatory Modoules 1	M/s-Hindustan fibre ltd vadodara	
36.	Lavatory Modoules 2,3,4	M/s-CMT mechanised pvt. vadodara	
37.	Lavatory Doors 1	M/s-Hindustan fibre ltd vadodara	
38.	Lavatory Doors 2,3,4	M/s-CMT mechanised pvt. vadodara	
39.	Waste Bin Arrangement 1	M/s-Hindustan fibre ltd vadodara	
40.	Waste Bin Arrangement 2,3,4	M/s-CMT mechanised pvt. vadodara	
41.	Fire Extinguisher	M/s classic Agnee new delhi	NPP-42890,PP-42963
42.	Seat & Berth	M/s Oriental veneer products mumbai	
43.	Light Luggage Rack	M/s- Techno ind. ALD	
44.	Snack Table	M/s-International tractors ltd. Hoshiarpur	

वर्क/QC/MCF/RBL

गुणवत्ता विभाग

रेल

रायबरेली (कारखाना)



वर्क/गुणवत्ता



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11. MODIFICATION (IF ANY) : NIL

12. DEVIATION (IF ANY) : NIL

13. 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 etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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 qualityrcfbl@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

रेडिओकार, रायबरेली (लालगंज)

Modern Coach Factory, Raebareli

Joginder Singh
Dy. Chief Quality Manager
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
RAILWAY		EC	17116/C
		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	29.26 Cub mtr/min	OK
3.2	Return Air	74.14 Cub mtr/min	OK
3.3	Exhaust Air	7.15 Cub mtr/min	OK
3.4	Conditioned Air	170.87 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 Not done due ambient temp. below 22°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 due ambient temp. below 22°C		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 :	OK
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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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : SSK Sr no of RMPU (NPP side): 328 Sr no of RMPU (PP side) : 324 Sr no of Microprocessor: AE-1706070	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : 17-08-0122	RDSO/PE/SPEC/AC/0184-2015 REV-0	
03.	Pump equipment with PLC controller & pump box Make : KIND Sr no PA : 09/17-0045 Sr no.1 : 17070317 Sr no.2 : 17070318 Sr no.CPA : 17070005	As per spec EDTS 186,Rev-a, Am- 2	01 01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : EYYANI	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 DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : DR AUTO	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	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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Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : NIL	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 : 09/17	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : TECHNO	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : ISG	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : ISG	As per LW 71002,Alt- F	01


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23.	Regulated battery charger Make : HIREL Sr no: 15010528	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
24.	Emergency battery charger Make : WAVES Sr no: 1173273	EDTS 163,Rev `c` corg.- 2&3	01
25.	Provision of 5KVA TFR Make : AUTOMATIC Elect Ltd SL.no : 03/17/T 509081/165	As Per EDTS-366,REV- NIL & CC-71510	01
26.	Provision of capacitor Bank Make : ISG SL.no : 17-04-0064	As per EDML-130 Rev- 1,Corr-1	01
27.	60KVA transformer Make : AUTOMATIC Elect Ltd: Sr no : 4/17/T 116503/169	As per rdso/pe/spec/ac/0080/rev- 0 (2007)/Am-1&2/Corr. 1,2&3	01
28.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC- 0177-2013 REV-0	01 set
29.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
30.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
32.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0117143232	M/s : KNORR	01 set
33.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGERATION	As per EDTS -139, Rev- E ,Sec II.	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण २००२८डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr. Electrical Engineer / RCF / RBL / Lucknow
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