



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002/PC

REV NO: 00

DATE: 10.10.2017

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 17-18/531

Coach No.	1	7	8	6	5	5	/	C	-	DATE OF DISPATCH	0	8	-	0	2	-	1	8
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RLY	W	R	-	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	0	9	-	2	0	1	7	-	1	8
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1. Railway Board's Order No. : 2016/M(C)/142/2 Dated. 28.07.2017
2. Tare Weight of Coach : 53.2 Tonnes
3. Carrying Capacity : (a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones

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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1102 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part M/S Sidhu ind.corporation KXH M/S E.c.blades & tool pvt. Ltd CDG Complete M/s MCF/RBL	PP END 895 NPP END 2251
2.	Side wall	M/s MCF/RBL	RH 78009 LH 78009
3.	End wall	M/S Rail tech pvt.ltd. KXH M/S Rail tech pvt.ltd. KXH	PP END 78009 NPP END 78009
4.	Roof	M/s MCF/RBL	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 1439 NPP END 1418
6.	Buffers	M/S Raneka ind.ltd.	N.A NPP END 78009

6. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
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	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
4.	Handbrake(Parking brake)for generator car	1.Apply hand brake 2.Release hand brake	1.Hand Bk. indicator should be red 2.Hand Bk. indicator should be green	OK OK

7. FIRE TESTING:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1	generator car	Smoke detection Heat detection	1.controller should display smoke in zone 1,2 2.strobe light & hooter should activate 1.controller should display smoke/heat in zone 1,2 2 strobe light & hooter should activate	OK OK

8. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-VIBGYOR	SUPPLY & APPLY	86/88
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



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/2017-18/531

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RLY	W	R	-	-	Type	L	W	L	R	R	M	Shell No.										7	8	0	0	9	-	2	0	1	7	-	1	8		

9. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170410				170409			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-458				AML-010			
Bolster no.	VS-42				VS-43			
Axle No	17Z-9684		17Y-1445		17A-7376		17A-8114	
Wheel Dia	917.477	917.514	917.494	917.521	917.476	917.554	917.458	917.538
Wheel Disc No	TZ07-17 25517-7PJ0	TZ09-17 33061-7SH0	TZ05-17 20397-7PK4	TZ05-17 13875-70H1	TZ05-17 15472-70L4	TZ09-17 32494-7SH8	TZ05-17 15468-70L4	TZ05-17 15467-70L4
R.B. Nos.	05-17 45001	09-17 71419	05-17 57421	06-17 81468	06-17 81209	06-17 17757	06-17 81492	06-17 78760
CT R B Make	SKF		SKF		SKF		SKF	

10. 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.	CMGBD-04-17-F16-09-146	CVFSK-11-16-8837-220-02	CMFSK-04-17-F16-169-64	CVFSK-03-16-8837-220-9	CMGBD-08-16-146-63-3	CVFSK-02-17-F15-193-12	CMGBD-11-16-146-138-11	CVFSK-02-17-F15-193-03
Compressed Ht. at Tested Load	513	467	513.5	471	510	466	510	465
Alignment deviation (mm)	13	09	10	08	10	15	09	13

11. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	149,138	43,342
2.	Primary outer Spring	RSK	05X(520,436,427,344)	05X(334,343,541,504)
3.	Primary Inner Spring	RSK	04X(3443,3592,3373,1668)	04X(3544,3718,3480,2849)
4.	Primary Damper	KNORR	08-17(10637,10710,10627,11129)	08-17(10817,10783,10589,10801)
5.	Secondary Damper	KNORR	04-17 (1036,1047)	05-17 (1126,1082)
6.	Lateral Damper	GABRIEL/KNORR	09-17 1587	05-17 0763
7.	Brake Cylinder	FAV	K17-037, H17-004, K17-013, K17-040,	K17-038, L17-008, L17-001, K17-039,
8.	Brake Caliper	FAV	K17147B, K17142B, K17146B, L17148B,	L17152B, L17149B, K17133B, K17151B,
9.	Brake Disc	FAV	D133561-300-08-17-4596, D133561-300-08-17-4597, D133561-300-09-17-5321, D133561-300-08-17-4603,	D133561-300-08-17-4412, D133561-300-08-17-4585, D133561-300-09-17-4582, D133561-300-08-17-4583,
10.	Ball Joint Control Arm	S-BLOC		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	S-BLOC		
15.	Ball joint traction centre	S-BLOC/MTC		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/S-BLOC		
20.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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RLY	W	R	-	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	0	9	-	2	0	1	7	-	1	8	

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	L17003B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17105517B
3.	Hand brake equipment	M/s Vanni precision ind.Punchkula	
4.	Foot Step	M/s Super spark pvt.ltd. Faridabad	
5.	Floor board	M/s TWPL mumbai	
6.	PVC	M/s Responsive ind.mumbai	
7.	UIC Vestibule (NPPE)	M/s SSIPL Mumbai	
8.	Gangway bridge mounting (NPPE)	M/s Mahaveer metal KXH	
9.	AL. Chequer plate/sheet	M/s Hanspal coach products KXH	
10.	Automatic fire detection & suppression system	M/S Sanrok faridabad	
11.	Body Side Window	M/S Rail tech pvt.ltd. KXH	
12.	Lavatory/hopper Window	M/s Aikon ind.salon H.P	
13.	Roof Ceiling	M/s Gandhi safe & allied Jalandhar	
14.	Generator room ceiling	M/s Amirchand engg.works Jalandhar	
15.	RMPU	M/s Amit engg.baddi	
16.	AC Trough	M/s Geepee guargaon	
17.	Luggage sliding door	M/s G.N.Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S Rail tech pvt.ltd. KXH	
19.	Body Side Doors D2	M/s JBM Faridabad	
20.	Body Side Doors D1	M/s Sukata CDG	
21.	Vestibule Door(NPPE)	M/s Kalsi LDH	
22.	Crew/gen. room door	M/s JBM Faridabad	
23.	Crew/guard room door	M/s Concept kolkata	
24.	Bio Tank (01 No LAV.)	M/S Rail tech pvt.ltd. KXH	
25.	Auxiliary Water Tank(1x30L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Under Slung Water Tank (1x450 L)	M/s Amit engg.mohali	
27.	Fuel tank (2x1500 L)	M/s Shivalic fastners pvt.ltd. mohali	
28.	Flexible Faucet	M/s Hindustan fibre ltd vadodara	
29.	Lotah Filler Tap	M/s metco delhi	
30.	Bib cock	M/s KPR ind. mohali	
31.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
32.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
33.	Seat & Berth	M/s AAR KAY foam CDG	
34.	Luggage Rack	M/S Rail tech pvt.ltd. KXH	
35.	Folding Table	M/S Techo ind. ALD	

SSE/QC/MCF/RBL

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RLY	W	R	-	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	0	9	-	2	0	1	7	-	1	8
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13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

16. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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

मुख्य विभाग
रेडिओका, रायबरेली (लालगंज)

सहायक यांत्रिक अभियंता/गुणवत्ता
Assistant Mechanical Engineer/Quality
रेल डिब्बा कारखाना, रायबरेली
Coach Factory, Raebareli

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Modern Coach Factory, Raebareli



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

TYPE COACH		LWRRM	SHELL/COACH NO	178655/C
RAILWAY		WR	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	14.60 Cub mtr/min		OK
3.2	Return Air	27.98 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	52.93 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 to 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 to Ambient temp. below 22°C			OK

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FAN OVER	OK
10.0	LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMERS	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGERS	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	HYGROSTAT	OK
16.4	CONTROL CIRCUIT	OK
16.5	POWER CIRCUIT	OK
16.6	ALTERNATER EARTH LEAKAGE RELAY	OK
16.7	FEEDER EARTH LEAKAGE RELAY	OK
16.8	UNDER VOLTAGE RELAY	OK
16.9	OVER VOLTAGE RELAY	OK
16.10	BUS COUPLAR	OK
16.11	FEEDER CONTACTOR	OK
16.12	SMOKE TEST	OK
17.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB/ POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : AMIT Sr no of RMPU (PP side): 1772-B Sr no of Microprocessor: AE-17.10.233	RDSO/pe/spes/ac/0061/rev-1/2005	02
02.	Power and Control Panel for LHB Power car Make: ISG Sr no : SBC-MCF-17-04-0005	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : SSK Sr no : 2017-11-017	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- 2012/04/070 Sr no.1- 16070181 Sr no.2- 16070200 Sr no.CPA- 2017/05/0046	EDTS 186,Rev-a, Am- 2	01
06.	Lavatory light fitting assly Make : DR AUTO	LW 76001,Alt nil	01
07.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02
08.	Razor socket for WC 110/240V Make : SSK	EDML 047 ,Rev nil	01
09.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
10.	Terminal connector Make : WAGO	EDML 037,Rev`a`	01
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame	EDML 047,Rev- C, Item 1.	02
12.	PA system for LHB coaches Make : AHUJA	EDTS 173,TYPE -II	01 set
13.	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 : 08/17	EDTS 129,Rev nil	01 set

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Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make : MICROTEX Lug date: 07/17 (B) Make: MICROTEX Lug date: 07/17		02 sets
15.	Battery box for LHB coaches. MAKE- TECHNO	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
18.	60KVA TFR Make- PANTRONICS Sr no:1. PAN-160111750 Make- PANTRONICS Sr no:2. PAN-160111775 Make- PANTRONICS Sr no:3. PAN-160111766	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: STANDERD CAPACITORS SL.no.- 17 A 480	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make: M.B COMPANY 1.2017/09/337 2.2017/09/307	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- FAIVELEY Sr no : 33/17/906	MDTS 077 REV-2	01 set
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c'	02
23.a1	Sr no of Alternator "A" Make- GREAVES Sr No- 3309121710897	EDTS 102, Rev`c'	01
23.a2	Sr no of Diesel Engine "A" Make- GREAVES Sr no- 1309121710897	EDTS 102, Rev`c'	01

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
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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- GREAVES Sr no : 3309121710896	EDTS 102, Rev`c'	01
23.b 2	Sr no of Diesel Engine "B" Make- GREAVES Sr no : 1309121710896	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make: AECO Sr no- 2017-09-103	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: KIRLOSKAR Sl no: DML 263-32 2.Make: KIRLOSKAR Sl no: DML 263-02	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: ABB SL no: 3GIJ17380001492225	EDTS 104, Rev`a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- NEC Sr no- 2017081848	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: KIRLOSKAR 1.Sl no: DML 263-33 2.Sl no: DML 263-05	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- AECO Sr no- 2017-09-105	EDTS 110,REV-NIL	01


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Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: ABB Sr no: 3GIJ17380001492222	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- NEC Sr no- 2017081893	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : ISG Sr no: SBC-MCF-16-09-0007	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: AECO	EDML 020, Rev`a'.	01 set
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- INTEG	EDTS-331, TYPE-2	01
35.	Lights Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	20
36.	Smoke Detector Unit. Make: AG RAIL Sr no: 500270	EDTS 087,Rev`a',Type II	01
37.	Provision of Tail light switch 2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: SSK	As per Cat no. SG 16	02
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	EDTS 105, Rev`c'.	01 set
39.	Connector for External supply socket. Make: MV	EDML 013, Rev nil.	02

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

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