



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/ 18-19/89

Coach No.	1	7	8	6	0	/	C	-	-	DATE OF DISPATCH	1	7	-	0	5	-	1	8
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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	3	0	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2017/M(C)/142/2 Dated. 26.05.2017
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) 1095 (NPPE) 2) 1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1.	Under frame	Front Part	M/S E.c.blades & tool pvt. Ltd CDG	PP END	222	NPP END 222
		Complete	M/S E.c.blades & tool pvt. Ltd CDG			
2.	Side wall	M/s MCF/RBL	RH	78030	LH	78030
3.	End wall	M/S Rail tech pvt.ltd. KXH	PP END	78030	NPP END	78030
		M/S Rail tech pvt.ltd. KXH				
4.	Roof	M/S DTL ancillaries ltd pune				
5.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END	1037	NPP END	1028
6.	Buffers	M/S Raneka ind.ltd.	N.A		NPP END	78030

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 @ 0.1kg/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	1.controller should display smoke in zone 1,2 2.strobe light & hooter should activate	OK
		Heat detection	1.controller should display smoke/heat in zone 1,2 2 strobe light & hooter should activate	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-Nerolac	SUPPLY & APPLY	77/87
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

रेडि०का०, रायबरेली (लाल गंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/89

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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	3	0	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180460				180459			
Bogie Type	LWLRRM				LWLRRM			
Frame no.	SCI/FM-1662				MCF/RBL-717			
Bolster no.	SFPL-299				SFPL-286			
Axle No	17 D- 1244 RWF		17 D- 2552 RWF		17D- 1287 RWF		17 D- 1355 RWF	
Wheel Dia	917.461	917.439	917.409	917.372	917.427	917.359	917.423	917.371
Wheel Disc No	TZ 05-17 13750-70L1	TZ05-17 13748-70L1	TZ05-17 21456-70P9	TZ05-17 21457-70P9	TZ-05-17 13749-70L1	TZ-05-17 20015-7PK9	TZ-05-17 20040-7PK9	TZ-05-17 13218-70N5
R.B. Nos.	06-17 17659	11-17 18492	10-17 17218	08-17 28124	06-17 18559	11-17 18160	08-17 28114	10-17 17204
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.	CMGBD02-18-83624-45	CMAFJ02-18-8837-48	CMGBD02-18-83619-188	CMAFJ02-18-8837-18	CMGBD02-18-14614-47	CMGBD01-18-14501-103	CMGBD02-18-14614-13	CMGBD01-18-14501-93
Compressed Ht. at Tested Load	511	471	511	470	510	468	508	468
Alignment deviation (mm)	11	20	12	21	10	10	11	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	197627,197592	197611,197586
2.	Primary outer Spring	CVFSK	01-18 7142-350(257,53,199,61)	01-18 7142-350 (81,132,49,36)
3.	Primary Inner Spring	CMFSK	02-18 1038-396(285,85,87,1)	02-18 1038-396(30,91,82,242)
4.	Primary Damper	KNORR	01-18(15781,16126,15870,16261)	01-18 (16020,16115,15918,15606)
5.	Secondary Damper	IAI	01-18(195765,198549)	01-18(198552,195722)
6.	Lateral Damper	SV	06-17 019524	06-17 019524
7.	Brake Cylinder	KBI	A1112K29,A0148K29,A0147K29,A1106K29	A1083K29,L7559-35,L7556-35,A1105K29
8.	Brake Caliper	KBI	A0796-29,A0396-29,A0395-29,A0795-29	0793-29,0016-29,0015-29,0794-29
9.	Brake Disc	KBI	24111692 0010-36/17,24111692 0012-36/17 24103245 0021-21/17,24079331 0035-24/16	2413604 0017-36/17,24113604 0019-36-17 24111695 0036-36/17,24111695 0038-36/17
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	J101-17		
14.	Ball joint traction lever	MTC		
15.	Ball joint traction centre	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		
21.	Control Arm Upper	PTC	517,502,481,509	444,424,573,493
22.	Control Arm Lower	PTC/SAF	180,289,233,210	(SAF 7014-561),274,257,255

Signature of SSE/Bogie/QC





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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	L195659
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2017 M4101
3.	Hand brake equipment	M/s PALSTO POWER	
4.	Foot Step	M/s Super spark pvt.ltd. Faridabad	
5.	Floor board	M/s TWPL mumbai	
6.	PVC	M/s Premier polyfilm, New Delhi	
7.	UIC Vestibule (NPPE)	M/s-Suncrest ind. kolkata	
8.	Gangway bridge mounting (NPPE)	M/s Mahaveer matel works Kapurthala	
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 Birkan engg.pvt.ltd.GAZIABAD	
13.	Roof Ceiling	M/s Amirchand engg.works Jalandhar	
14.	Generator room ceiling	M/S Rail tech pvt.ltd. KXH	
15.	RMPU	M/s SIDWALL Faridabad	
16.	AC Trough	M/s Geepee guargao	
17.	Luggage sliding door	M/s Guru.Nanak .Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S HAPPY ENG. CDG	
19.	Body Side Doors	M/s SUKATA CDG	
20.	Vestibule Door(NPPE)	M/s JBM Faridabad	
21.	Crew/gen. room door	M/s JBM Faridabad	
22.	Crew/guard room door	M/s kalsi LDH	
23.	Bio Tank (01 No LAV.)	M/s RAIL FAB KXH	
24.	Auxiliary Water Tank(1x30L)	M/s MANOJ ENT.. mohali	
25.	Under Slung Water Tank (1x450 L)	M/s AMIT ENGG.. mohali	
26.	Fuel tank (2x1500 L)	M/S GAURAV ASSOCIATE DELHI	
27.	Flexible Faucet	M/s Hindustan fibre ltd vadodara	
28.	Lotah Filler Tap	M/s Hindustan fibre ltd vadodara	
29.	Bib cock	M/s AGMCO PVT.LTD	
30.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
31.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
32.	Seat & Berth	M/s GANDHI SAFE & ALLIED JALANDHER	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S OM IND, UTTRA KHAND	

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गुणवत्ता विभाग
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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	3	0	-	2	0	1	8	-	1	9

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 Frequency	REFERENCE & PERIOD OF TRIAL

16. WARRANTY:

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

वरिष्ठ यंत्रिक अभियंता
मुणबत्ता विभाग
रेडिओका, रायबरेली (लालगंज).

सहायक यंत्रिक अभियंता / मुणबत्ता
Assistant Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 11.09.2017

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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	17860/C
RAILWAY		NWR	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	14.62 Cub mtr/min		OK
3.2	Return Air	30.41 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	64.88 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 :22.1 °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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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	OK

R 407C

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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 : SIDWAL Sr no of RMPU (PP side): 17 M 1183 Sr no of Microprocessor: 17.12.1103 -SIDWAL	RDSO/pe/spes/ac/0061/rev-1/2005	02
02.	Power and Control Panel for LHB Power car, Make: ISG Sr no : PCP-MCF-18-01-0017	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : ISG Sr no : SBC-MCF-18-03-0009	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- 2018/03/001 Sr no.1- 18020252 Sr no.2- 18020288 Sr no.CPA- 2018/03/079	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 Make: SSK	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 : HLB Lug date : 12/2017	EDTS 129,Rev nil	01 set

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ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make: MICROTEX Lug date: 01/18 (B) Make: MICROTEX Lug date: 01/18		02 sets
15.	Battery box for LHB coaches. MAKE- HITECH	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- VIMAL Sr no:1. 5052 Make- AUTOMATIC Sr no:2. 1/18/T 510483/10 Make- AUTOMATIC Sr no:3. 3/18/T 510483/159	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: STANDERD CAPACITOR SL.no. 17A 478	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- M.B COMP. Sr no:1. 2016/11/016 Make- M.B COMP. Sr no:2. 2016/11/018	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- KNORR Sr no : 0117494182	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- 3309121803695	EDTS 102, Rev`c'	01
23.a2	Sr no of Diesel Engine "A" Make- GREAVES Sr no- 1309121803695	EDTS 102, Rev`c'	01

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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 : 3309121803693	EDTS 102, Rev `c'	01
23.b 2	Sr no of Diesel Engine "B" Make- GREAVES Sr no : 1309121803693	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- ISG Sr no- CPVF-MCF-17-09-0005	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: KIRLOSKAR Sl no: EML 271-48 2.Make: KIRLOSKAR Sl no: EML 271-61	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: GREAVES SL no: RBG 49509	EDTS 104, Rev `a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- NEC Sr no- 2017081861	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: KIRLOSKAR Sl no: EML 271-54 2.Sl no EML 271-83	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- NEC Sr no- 2017081861	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: GREAVES Sr no- RBG 49508	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- NEC Sr no- 2017081892	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : ISG Sr no: SBC-MCF-17-08-0005	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: NEC	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: 500288	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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