



# 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/ 662  
(DEEN DAYALU)

Coach No.	1	7	3	4	9	8	/	C	DATE OF DISPATCH	1	9	-	0	3	-	1	8
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RLY	N	R	-	Type	L	W	S	-	-	-	Shell No.	7	6	1	2	5	-	2	0	1	7	-	1	8
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- Railway Board's Order No. : 2017/M(C)/142/2, Dated 21.09.2017
- Tare Weight of Coach : 40.66 Tonnes
- Carrying Capacity : (a) Seating: 100 (b) 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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1)1103 (NPPE) 2)1104 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	M/S Sidhu ind.corporation KXH	PP END 118 NPP END 118
	Front Part	M/S Sidhu ind.corporation KXH	
	Complete	M/S Sidhu ind.corporation KXH	
2.	Side wall	M/S V4U CONTRACTOR	RH 76125 LH 76125
3.	End wall	PP M/s KEPL/Punchkula	PP END 76125 NPP END 76125
4.		NPP M/s KEPL/Punchkula	
5.	Roof	M/S MCF -106	
6.	Centre Buffer Coupler	M/S Dellnar INDIA PVT LTD.	PP END 118 NPP END 118
7.	Buffers	N.A.	

**6. AIRBRAKE TEST REPORT:**

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	8 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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 GS	SUPPLY & APPLY	74/87
2.	Insulation			Satisfactory	

*Signature*  
SSE/QC/MCF/RBL

वरिष्ठ अधिकारी  
गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)



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(DEEN DAYALU)

Coach No.	1	7	3	4	9	8	/	C	DATE OF DISPATCH	1	9	0	3	2	0	1	8
RLY	N	R	-	Type	L	W	S	-	-	Shell No.	7	6	1	2	5	-	-

#### 8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	171033				171034			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-1507				SCI-1502			
Bolster no.	APEX AUTO PVT.LTD-026				ALL/ MCF-028			
Axle No	17 B -9624		17 B -9749		17 Z- 2620		17 Y- 8569	
Wheel Dia	917.539	917.503	917.537	917.488	917.472	917.499	917.588	917.565
Wheel Disc No	TZ05-17 16440-70N6	TZ05-17 18161-70N1	TZ05-17 16439-70N6	TZ05-17 20422-70L5	TZ05-17 16130-7PJ9	TZ05-17 12492-70N3	TZ05-17 12225-70H7	TZ05-17 14245-70N0
R.B. Nos.	09-17- 12979	09-17 11613	09-17 12982	09-17 13138	07-17 07116	07-17 08005	07-17 07321	07-17 07866
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

#### 9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	ASHIKA COMMERCIAL PVT.LTD. 10-17 - 3608	ASHIKA COMMERCIAL PVT.LTD. 10-17 3609	ASHIKA COMMERCIAL PVT.LTD. 10-17 3659	ASHIKA COMMERCIAL PVT.LTD. 10-17 3656

#### 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	SV	606,870	499,620
2.	Primary outer Spring	CMFSK/CMGBD	05-17F07(318-542,317-660,318-450,318-499)	06-17 1100-64(286,156,398,397)
3.	Primary Inner Spring	CMFSK	06-17 1101(282-57,282-273,282-172), 03-17F06-972-150	09-17 1101-306 (53,47,50,68)
4.	Primary Damper	KNORR	09-17 (11655,12166,12184,11649)	09-17(11484,11503,11473,12019)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	KBI	9641K29,9260K29,9244K29,9638K29	9654K29,9394K29,9383K29,9554K29
8.	Brake Caliper	KBI	8681-29,8723-29,8721-29,8680-29	8705-29,8761-29,8760-29,8653-29
9.	Brake Disc	KBI	24119148 0006-52/17,24119148 0008-52/17 24119132 0040-52/17,24119133 0001-52/17	24419149 0005-52/17,24419149 0011-52/17 24419149 0017-52/17,24419149 0012-52/17
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1801,1801	1801,1801
17.	Check Valve	ESCORT	1801	1801
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ BONY		
20.	Fork make	SARITA		
21.	Control Arm Upper	RVE	131217-1,131217-1,141217-2,031217-2	121217-2,041217-1,111217-1,111217-1
22.	Control Arm Lower	RVE	301117-2,121217-4,121217-4,121217-4	121217-4,301117-1,301117-1,121217-1

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 KBI Faridabad. New Delhi	PASS 17L2882
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2017L3944
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 860/29 NPP END 844/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s TWPL MUMBAI	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
10.	UIC Vestibule (PPE)	M/s-Sunrest ind.kolkata	
11.	UIC Vestibule (NPPE)	M/s-Sunrest ind.kolkata	
12.	Gangway Bridge mounting(PPE)	M/s Rakesh iron store KXH	
13.	Gangway Bridge mounting(NPPE)	M/s Rakesh iron store KXH	
14.	Body Side Window	M/s AB Pvt. Ltd, Kolkata	
15.	Emergency Window	M/s AGF Pvt. Ltd, Kolkata	
16.	Hopper Window	M/s Aikon ind.salon H.P	
17.	Roof ceiling	M/s ACME india NDLS	
18.	Door way gangway ceiling	M/s ACME india NDLS	
19.	Body Side Doors	M/s JBM Faridabad	
20.	Vestibule door(PPE)	M/s KALSI LDH	
21.	Vestibule door (NPPE)	M/s KALSI LDH	
22.	Bio Tank	M/s RASANDIK IND.	
23.	Overhead Water Tank( 4X390L)	M/s Rubicon STEEL KXH	
24.	Bib Cock/Controlled Discharge Tap	M/s ACME india NDLS	
25.	Lavatory Doors	M/s ACME india NDLS	
26.	Fire Extinguisher	M/s FIREGO HARYAAN	NPP-4973,PP-5052
27.	Water purified	M/s Prag Polymer, Lucknow	NPP-2/071,PP-2/066
28.	Seat & Berth	M/s Oriental veneer products mumbai	
29.	Luggage Rack	M/s Oriental veneer products mumbai	
30.	Light Luggage Rack	M/s Nitin home DELHI	

वरीकृत  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (नालगंज)



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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.CQM/MCF/RBL

सहायक यांत्रिक अभियंता / गुणवत्ता  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

सहायक यांत्रिक अभियंता / गुणवत्ता  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

उप मुख्य गुणवत्ता प्रबन्धक  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
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DOC NO.: MCF/RBL/QEF/8001

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**FOR ELECTRICAL ITEMS**

## ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

PAGE 1 OF 3

## ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES

SHELL/COACH NO	173498/C	TYPE COACH	LWS DDG
RAILWAY	NR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
2.	LIGHTS, CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2	CONTROL CIRCUIT	OK	
7.3	POWER CIRCUIT	OK	

**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**



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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>SSK</b> On Board Sr no : <b>2017-10-253</b> HT Panel Sr no : <b>2017-10-273</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02.	Emergency light system for EOG type coaches (AEL), Make : <b>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
03.	Provision & Mounting of PACIL Assly. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-I Drg no. LW 76098.	<b>02</b>
04.	Fitment of Switch Plate Assly (Cabin Side) Make : <b>SSK</b>	EDML 127,Rev-1& DRG NO 4248ALT-a	<b>10</b>
05.	Fitment of Switch Plate Assly (Corridor Side) Make : <b>SSK</b>	EDML 127,Rev-1 & DRG NO 4249 ALT-a	<b>10</b>
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>LEC</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
07.	Provision of Cabin, Corridor, doorway and Gangway Lights. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL- 0091(REV-1) TYPE B-1	<b>28</b>
08.	Provision & Mounting of Lavatory Light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-D & Drg no. LW 76092.	<b>04</b>

**Senior Section Engineer**  
**Quality control / Electrical**  
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**FOR ELECTRICAL ITEMS****ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES**

PAGE 3 OF 3

09.	Battery fuse box +ve Make : <b>INDO</b>	LW 71001,Alt-F	<b>01</b>
10	Battery fuse box -ve Make : <b>ISG</b>	LW 71002,Alt-F	<b>01</b>
11.	Regulated battery charger Make : <b>AAL</b> Sr no: <b>BCH-061611295</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
12.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>795</b>	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	<b>01</b>
13.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>S.INTERNATIONAL</b>	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	<b>01</b> <b>set</b>
14.	Feeder junction boxes. Make : <b>AECO</b>	EDTS-328 REV-C	<b>01</b> <b>set</b>
15.	Wheel set earthling equipment. Make : <b>CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b> <b>sets</b>
16.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0117373713</b>	M/s : <b>KNORR</b>	<b>01 set</b>
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>SOUTHERN</b> Lug date : <b>12/17</b>	RDSO/pe/spec/ac-0009 rev- 1-2008 amdt-1	<b>01 set</b>
18.	Battery box for LHB coaches. Make : <b>HITECH</b>	CC 91205	<b>01</b>

 <b>SSE/EL/QC</b> वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण रेल कोच कारखाना / लालगंज / रायबरेली Elect-QC/M.C.F./LLJ/RBL	 <b>SEE(P)/MCF/RBL</b> <b>DyCEE/P&amp;P/MCF/RBL</b> वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr Electrical Engineer / RCF / RBL / Lucknow
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