



# 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/2018-19/598  
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	1	6	/	C	-	DATE OF DISPATCH	3	0	-	0	9	-	1	8
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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	5	0	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
2. Tare Weight of Coach : 40.66 Tonnes
3. 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)1105 (NPPE) 2)1105 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Apex auto ltd.jamshedpur 03
		NPP END M/S Apex auto ltd.jamshedpur	03
	Complete	M/S Apex auto ltd.jamshedpur	03
2.	Lav.side wall	M/S JSL COMP	LAV.1 - LAV.2 -
		M/S JSL COMP	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(V4U CONTRACTOR )	89
		RH SIDE MCF/RBL(V4U CONTRACTOR )	89
4.	End wall	PP END M/S AMIT ENG	-
		NPP END M/S AMIT ENG	-
5.	Roof	MCF/RBL	48
6.	Centre Buffer Coupler	M/S Dellnar INDIA PVT LTD.	PP END 2035 NPP END 2038

#### 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	08 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	76/88
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान अधिकारी

गुणवत्ता विभाग

रेडिंक 0, रायबरेली (उत्तर प्रदेश)



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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	5	0	-	-	-	-	-	-	-

**8. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	180672				180671			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-156				MCF/RBL/LS5-407			
Bolster no.	MCF/RBL/LS5-346				MCF/RBL/LS5-0116			
Axle No	17 F-8737 RWF		18F - 8357 RWF		17 Z-4255 RWF		18 F - 8120RWF	
Wheel Dia	917.676	917.609	917.656	917.577	917.667	917.682	917.656	917.662
Wheel Disc No	TZ07-17 33564-8QN3	TZ07-17 34067-8RH9	TZ07-17 33566-8RH6	TZ07-17 32507-8RG8	TZ07-17 32154-8RH3	TZ07-17 34066-8RG9	TZ07-17 32436-	TZ07-17 33562-8RG9
R.B. Nos.	04-18 25732	04-18 25710	05-18 29455	04-18 26067	04-18 25744	04-18 25597	04-18 25620	04-18 26212
CT R B Make	SKF		SKF		SKF		SKF	

**9. SECONDARY SUSPENSION**

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1089	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1275	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1045	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1088

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	1278,1299	9590,9539
2.	Primary outer Spring	CMGBD	06-18 1100-72(278,249,261,267)	06-18 1100 (402-246,402-288,72-254,72-269)
3.	Primary Inner Spring	CMFSK/CMGBD	12-16-1101-213-603,04-18 1101-402(613,448,448)	06-18 1101(17-812,12-724,12-730,12-687)
4.	Primary Damper	KNORR	06-18(24922,24929,24923,24931)	06-18 (24929,24941,24927,24899)
5.	Secondary Damper	GEREP	17-2017 301550739	17-2017 301550739
6.	Lateral Damper	GEREP	17-2017 301550559	17-2017 301550559
7.	Brake Cylinder	FAV	H18(236,523,543,558)	H18(089,249,254,091)
8.	Brake Caliper	FAV	K18(399,397,398,400)B	K18(191,189,190,192)B
9.	Brake Disc	FAV	06-18(13,12),08-18(176,175)D133561-300	06-18(11,014),08-18(159,160)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	FAV	G18-255,G18-243	G18-226,G18-239
17.	Check Valve	FAV	G18-051	G18-157
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	020818-3	030818-1,120818-1,051818-2,120818-1
22.	Control Arm Lower	RVE	140818-2,160818-1,030818-3,RVE	030818-1,030818-3,160818-1,030818-3

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 Faively transport tech.india ltd baddi(HP)	D18011B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045509B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/S Escorts ltd railway equipment FBD	PP END NPP END
5.	Foot Step	M/s Super spark pvt.ltd. faridabad	18050176 18050164
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	N/A	
10.	UIC Vestibule (PPE)	M/s-Suncrest ind. kolkata	
11.	UIC Vestibule (NPPE)	M/s-Suncrest ind. kolkata	
12.	Gangway Bridge mounting(PPE)	M/s COMPETENT ENG JALANDHAR	
13.	Gangway Bridge mounting(NPPE)	M/s COMPETENT ENG JALANDHAR	
14.	Body Side Window	M/s KINECO LTD GOA	
15.	Emergency Window	M/s KINECO LTD GOA	
16.	Hopper Window	M/s KINECO LTD GOA	
17.	Roof ceiling	M/s KINECO LTD GOA	
18.	Door way gangway ceiling	M/s KINECO LTD GOA	
19.	Body Side Doors 1,2,3,4	M/s JBM FARIDABAD	
20.	Body Side Doors 5,6	M/s SUKATA CDG	
21.	Vestibule door(PPE)	M/s Hanspal coach products KXH	
22.	Vestibule door (NPPE)	M/s Hanspal coach products KXH	
23.	Bio Tank	M/s FLASH FORGE VIZAG	
24.	Overhead Water Tank( 4X390L)	M/s RAIL FAB KXH	
25.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
26.	Lavatory Doors	M/s KINECO LTD GOA	
27.	Fire Extinguisher	M/s BHARTI ENG.	NPP-2433,PP-2437
28.	Water purified	M/s PRAG POLYMER	NPP-2/315,PP-2/356
29.	Seat & Berth	M/s KINECO LTD GOA	
30.	Luggage Rack	M/s KINECO LTD GOA	
31.	Light Luggage Rack	M/s KINECO LTD GOA	

SSE/QC/MCF/RBL

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गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (मि. १७/०४/२०१८)



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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, 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

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गुणवत्ता विभाग  
रेडिओका, रायबरेली (उत्तरप्रदेश)

आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

उप मुख्य गुणवत्ता प्रबन्धक  
Dy. Chief Quality Manager  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli





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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	18416/C	TYPE COACH	LWS/DDF
RAILWAY	NCR	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>AMIT ENGG.</b> On Board Sr no : <b>AE/USBC-443</b> HT Panel Sr no : <b>AE/USBC-461</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>KAVERI</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>IMT COBLES</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>RT VISION</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**  
**Modern Coach Factory Raebareli**





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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>INTEG</b>	LW 71001,Alt-F	<b>01</b>
10.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
11.	Regulated battery charger Make : <b>NAREN ELECT.</b> Sr no: <b>1808409</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
12.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>-981</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>MAA LAXMI INDUSTRIES</b>	EDTS-328 REV-C	<b>01</b> <b>set</b>
15.	Wheel set earthing equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02</b> <b>sets</b>
16.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>03/18/191</b>	M/s : <b>FAIVELEY</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>HBL</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>	 <b>SEE(P)/MCF/RBL</b> <b>DyCEE/P&amp;P/MCF/RBL</b>
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गुणवत्ता नियंत्रण  
आधुनिक डिब्बा / तालमज / रायबरेली  
S.S.E/EL/QC/MCF/LL/RBL

वरिष्ठ विद्युत अभियन्ता  
रेल कोच फैक्ट्री, रायबरेली, लखनऊ  
Sr. Electrical Engineer, RCF, RBL / Lucknow

