



# 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/2018-19/612  
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	1	7	/	C	-	DATE OF DISPATCH	0	5	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	3	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)1101 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part	PP END M/S Trident components pvt.ltd.CNB	02
		NPP END M/S Trident components pvt.ltd.CNB	02
		Complete M/S Trident components pvt.ltd.CNB	02
2.	Lav.side wall	M/S Indira ind.ranipet chennai	LAV.1 - LAV.2 -
		M/S Indira ind.ranipet chennai	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL( V4U CONTRACTOR )	44
		RH SIDE MCF/RBL( V4U CONTRACTOR )	44
4.	End wall	PP END M/s Shivalic fastners pvt.ltd. mohali	-
		NPP END M/s Shivalic fastners pvt.ltd. mohali	-
5.	Roof	MCF/RBL	27
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3966 NPP END 3944

#### 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	76/89
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेडिफा, रायबरेली (लालगंज)



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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	3	0	-	-	-	-	-

#### 8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180660				180659			
Bogie Type	FIAT				FIAT			
Frame no.	AML-038				AML-037			
Bolster no.	MCF/RBL/LS5-420				MCF/RBL/LS5-0198			
Axle No	17 Z-2797 RWF		17 Z - 9632 RWF		17 W-8146 RWF		17 Z - 4915 RWF	
Wheel Dia	917.445	917.432	917.473	917.471	917.499	917.513	917.522	917.474
Wheel Disc No	TZ04-17 15144-8NG8	TZ03-17 01874-7NN2	TZ04-17 13099-8MN4	TZ03-17 08078-8MR7	TZ04-17 10568-7NN5	TZ03-18 08182-8MN3	TZ04-18 15143-8NG8	TZ04-18 15576-8NG2
R.B. Nos.	12-17 25574	01-18 29953	12-17 25744	02-18 12489	05-18 09789	05-18 09972	02-18 12504	02-18 12147
CT R B Make	SKF		SKF		TIMKEN		TIMKEN	

#### 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. 18-02-760	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1076	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-02 764	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-07 752

#### 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	132,38	48,42
2.	Primary outer Spring	CMFSK	04-18 1100-402-(546,820,133,877)	04-18 1100-402-(784,533,636,647)
3.	Primary Inner Spring	CMGBD	04-18 1101-36(190,340,295,187)	04-18 1101-36(45,446,227,290)
4.	Primary Damper	IAI	03-18(201614,201550,201908,201610)	03-18 (21176,201665,201688,201966)
5.	Secondary Damper	IAI	01-18(198683,03-18 201864	01-18(198661,198616)
6.	Lateral Damper	GEREP	17-2017 301550559	17-2017 301550559
7.	Brake Cylinder	FAV	C18-288,B18-642B,B18-640,C18-524	C18(391,423,4119,396)
8.	Brake Caliper	FAV	C18(1007,1005,1006)B,D18180B	D18(091,090,089,092)B
9.	Brake Disc	FAV	04-18(3988,3987),03-18(2796,)D133561-300	04-18(3961),03-18(2856,2907,2857)D133561-300
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	S-BLOC		
16.	Leveling Valve	FAV	229,F18-226	F18-218,F18-214
17.	Check Valve	FAV	F18-016	F18-012
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ S-BLOC		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	040618-2,170518-1,300518-3,RVE	300518-3,050618-3,300518-3,230518-3
22.	Control Arm Lower	RVE	030618-1,030618-3,030518-1,030518-1	(KUMAR-N9645),030518-1,050618-2,030518-1

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME/JBP			Type	L	W	S	-	-	Shell No.	8	6	0	3	0	-	2	0	1	8	-	1	9

**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)	D18020B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045515B
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	18050162 18050173
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-KRP kolkata	
11.	UIC Vestibule (NPPE)	M/s-KRP . 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	M/s JBM FARIDABAD	
20.	Vestibule door(PPE)	M/s JBM FARIDABAD	
21.	Vestibule door (NPPE)	M/s JBM FARIDABAD	
22.	Bio Tank	M/s FLASH FORGE VIZAG	
23.	Overhead Water Tank( 4X390L)	M/s RAIL FAB KXH	
24.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
25.	Lavatory Doors	M/s KINECO LTD GOA	
26.	Fire Extinguisher	M/s FIRE BITE	NPP-2441,PP-2440
27.	Water purified	M/s PRAG POLYMER	NPP-2/308,PP-2/331
28.	Seat & Berth	M/s KINECO LTD GOA	
29.	Luggage Rack	M/s KINECO LTD GOA	
30.	Light Luggage Rack	M/s KINECO LTD GOA	

*Deen Dayalu*  
SSE/QC/MCF/RBL  
वार 0अनु 0 अभियंता

गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (लाहौर)



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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	3	0	-	2	0	1	8	-	1	9

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

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)

रजिस्टर्ड अडिजिन्ता/गुणवत्ता-1  
Assistant Mechanical Engineer / Quality-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

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





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001


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**FOR ELECTRICAL ITEMS****ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC DD COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	18417/C	TYPE COACH	LWS/DDF
RAILWAY	WCR	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 NONAC DD COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>AMIT ENGG.</b> On Board Sr no : <b>AE/USBC-447</b> HT Panel Sr no : <b>AE/USBC-460</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 NONAC 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>WAVES</b> Sr no: <b>184716</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
12.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>PAN-16015933</b>	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	<b>01</b>
13.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</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 earthling equipment. Make : <b>DARSHAN INTERPRISES</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>03/18/188</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>07/18</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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वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आउटरीडिक्टा / लालगंज / रायबरेली  
S.S.E./Eled-QC/M.C.F./LLJ/RBL

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

