



# 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/2018-19/706  
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	2	3	/	C	-	DATE OF DISPATCH	2	8	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/IBP	Type	L	W	S	-	-	Shell No.	8	6	0	4	5	-	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)1098 (NPPE) 2)1095(PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part	PP END M/S Manjit techno fab raebareli	212
		NPP END M/S Manjit techno fab raebareli	212
	Complete	M/S Manjit techno fab raebareli	212
2.	Lav.side wall	M/S INDRA TRADE	LAV.1 - LAV.2 -
		M/S INDRA TRADE	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL( V4U CONTRACTOR )	21
		RH SIDE MCF/RBL( V4U CONTRACTOR )	21
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	41
6.	Centre Buffer Coupler	M/S Dellnar INDIA PVT LTD.	PP END 1391 NPP END 2067

**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	07 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	76/90
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

रेडि०का०, रायबरेली (लाह०ग०)





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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	4	5	-	-	-	-	-	-

**8. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	180693				180694			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-403				MCF/RBL/LS5-435			
Bolster no.	MCF/RBL/LS5-401				MCF/RBL/LS5-423			
Axle No	18 E-8419 RWF		18 E - 8279 RWF		18 E-8717 RWF		18 E - 8011 RWF	
Wheel Dia	917.513	917.433	917.534	917.493	917.532	917.5	917.507	917.47
Wheel Disc No	TZ06-17 30057-8QM5	TZ07-17 34149-8QN3	TZ07-17 34113-8RG9	TZ07-17 34114-8QN3	TZ07-17 35868-8QM1	TZ07-17 34465-8QL6	TZ07-17 34116-8QN3	TZ07-17 34111-8RG9
R.B. Nos.	04-18 24736	04-18 25249	04-18 24756	04-18 24755	04-18 24734	02-18 12419	04-18 24743	02-18 16602
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. 18-05-1227	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1196	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1162	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1162

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	1416,MCF-1	1543,1550
2.	Primary outer Spring	CMFSK	04-18 1100-402(54,467,343,452)	04-18 1100-402 (445,126,317,119)
3.	Primary Inner Spring	CMGBD	05-18 1101(56-180,57-139,56-105,57-346)	05-18 1101 (57-145,57-160,56-146,57-303)
4.	Primary Damper	KNORR	06-18(23651,23609,23603,23610)	06-18(24534,24529,24542,),(05-18 23433
5.	Secondary Damper	GEREP	KW17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	GEREP	KW17-2017 301550559	KW 16-2018 301550559
7.	Brake Cylinder	FAV	H18-(459,303,477,224,)	G18-533,H18-175,H18-172,G18-531
8.	Brake Caliper	FAV	K18(488,486,437,439)B	K18(807,805,806,808)B
9.	Brake Disc	FAV	09-18(2180,2181,2212,2211,)D133561-300	09-18(2179,2184,2256,2210)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	FAV	G18-147,F18-541	19-109,18-138
17.	Check Valve	FAV	G18-042	G18-079
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	NIPHA	06-18(368, NIPHA, NIPHA,423)	05-18(0085,345)06-18-105,05-18-0085
22.	Control Arm Lower	NIPHA	05-18 0201,06-18(861,308),05-18 001	06-18-329,05-18(0068,0085,0058)

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME/JP	Type	L	W	S	-	-	Shell No.	8	6	0	4	5	-	2	0	1	8	-	1	9
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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)	D18054B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045564B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/S Escorts ltd railway equipment FBD	PP END 18050023 NPP END 18070021
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	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 Rakesh iron store KXH	
13.	Gangway Bridge mounting(NPPE)	M/s Rakesh iron store KXH	
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 1,3,6	M/s SUKATA CDG	
20.	Body Side Doors 2,4,5	M/s JVR LDH	
21.	Vestibule door(PPE)	M/s KALSI LDH	
22.	Vestibule door (NPPE)	M/s KALSI LDH	
23.	Bio Tank 2,4	M/s M.K.METAL	
24.	Bio Tank 1,3	M/s FLASH FORGE	
25.	Overhead Water Tank( 4X390L)	M/S FABRICATORS INDIA	
26.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
27.	Lavatory Doors	M/s KINECO LTD GOA	
28.	Fire Extinguisher	M/s FIRE FITE	NPP-1575,PP-1586
29.	Water purified	M/s ,WM UF	NPP-057,PP-060
30.	Seat & Berth	M/s KINECO LTD GOA	
31.	Luggage Rack	M/s KINECO LTD GOA	
32.	Light Luggage Rack	M/s KINECO LTD GOA	

SSE/QC/MCF/RBL

वरिष्ठ उप निदेशक

गुणवत्ता विभाग

रेडि0का0, रायबरेली (लालगंज)





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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	4	5	-	2	0	1	8	-	1	9
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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

गुणवत्ता विभाग  
रेडि०का०, रायबरेली (लालगंज)

सहायक यांत्रिक अभियन्ता/गुणवत्ता-1  
Assistant Mechanical Engineer / Quality-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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





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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	18423/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>SSK</b> On Board Sr no : <b>2017-08-196</b> HT Panel Sr no : <b>2017-10-295</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02	Emergency light system for EOG type coaches (AEL), Make : <b>CONCORD CONTROL SYSTEM</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>C G POWER.</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>SSK</b>	LW 71002,Alt-F	<b>01</b>
11.	Regulated battery charger Make : <b>BHASIN</b> Sr no: <b>09181398</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-18017778</b>	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	<b>01</b>
13.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev`e` Am-3 TYPE-2	<b>01 set</b>
14.	Feeder junction boxes. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS-328 REV-C	<b>01 set</b>
15.	Wheel set earthling equipment. Make : <b>DARSHAN INTERPRISES.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
16.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>25/18/1034</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>11/16</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  
आपरेटिंग/लाइव/रायबरेली  
S.S.E./Elect-QC/M.C.F./LJ/RBL

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

