



# 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/ 642  
(DEEN DAYALU)

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

- Railway Board's Order No. : 2017/M(C)/142/1, Dated 04.09.2017
- 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)1104 (NPPE) 2)1105 (PPE)

**5. TRACEABILITY OF SHELL ITEMS:**


S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part Complete	M/S E.c.blades & tool pvt. Ltd CDG M/S E.c.blades & tool pvt. Ltd CDG	PP END 195 NPP END 195
2.	Side wall	M/s-V4U( CONTRACTOR)	RH 76103 LH 76103
3.	End wall PP	M/S E.c.blades & tool pvt. Ltd CDG	PP END 76103 NPP END 76103
4.	NPP	M/S E.c.blades & tool pvt. Ltd CDG	
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur CHENNAI	
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 2357 NPP END 2378
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	76/88
2.	Insulation			Satisfactory	

  
SSE/QC/MCF/RBL

मुख्य निदेश  
रेलवे विभाग, रायबरेली (का. 1)



**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/2017-18/642  
(DEEN DAYALU)

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

**8. DETAIL OF BOGIES:**

ITEMS	PP Side				NPP Side			
Bogie No	170296				170295			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1498				SCI/FC-1493			
Bolster no.	MCF/RBL/LS-5-321				MCF/RBL-LS-5-0185			
Axle No	17B-8890		17B-9621		17B-8206		17B-8760	
Wheel Dia	917.455	917.411	917.478	917.417	917.531	917.460	917.627	917.541
Wheel Disc No	TZ-05-17-12373-70H7	TZ-04-17-09198-70N8	TZ-07-17-24063-7RJ3	TZ-05-17-22988-7QK2	TZ-05-17-12374-70K2	TZ-05-17-16383-70L5	TZ-03-17-04268-70K7	TZ-06-17-12119-70K2
R.B. Nos.	06-17-81878	05-17-58846	06-17-82699	05-17-58874	06-17-78858	06-17-79772	10-17-14615	10-17-14549
CT R B Make	SKF		SKF		SKF		TIMKEN	

**9. SECONDARY SUSPENSION**

DESCRIPTION	Bogie PP side		Bogie NPP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	ACPL-08-17-3508	ACPL-08-17-3563	ACPL-08-17-3511	ACPL-08-17-3510

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	YAW Damper	GEREP	240,116	861,121
2.	Primary outer Spring	CMFSK	08-17-1100-308(70,304,178,241)	08-17-1100-308(145,119,131,190)
3.	Primary Inner Spring	CMFSK	06-17-1101-306(249,199),03-17-1101-306(110,197)	06-17-1101-306(194,129,189,46)
4.	Primary Damper	KNORR	09-17(11932,11929,11931,11936)	09-17(11728,11927,11720,11935)
5.	Secondary Damper	GREEP	KW17-2017-301550739	KW17-2017-301550739
6.	Lateral Damper	GEREP	KW17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	FAV	B018(027,63,62,26)	A18(495,054,034,025)
8.	Brake Caliper	FAV	B(18362B,18360B,18359B,18361B)	B(18374B,18372B,18371B,18373B)
9.	Brake Disc	FAV	02-18(1127D133561-300,1128D133516-300,1129-D133561-300,1129-D133561-300,1205D133561-300	02-18-(1030,1029,1059,1062)D133561-300
10.	Ball Joint Control Arm	MTC		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI-01-17		
14.	Ball joint traction lever	MTC		
15.	Ball joint traction centre	MTC		
16.	Leveling Valve	ESCORT	2017	2017
17.	Check Valve	KNOOR/ESCORT	10.252	1801
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/BONY		
20.	Fork make	SARITA		

*Deen Dayalu*  
Signature of SSE/Bogie/QC





# 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/ 642  
(DEEN DAYALU)

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

**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)	L17065B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18025510B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 1006/29 NPP END 1008/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s A.K. ENT. KOLKATA	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
10.	UIC Vestibule (PPE)	M/s-Sunrest ind.kolkata	
11.	UIC Vestibule (NPPE)	M/s SSIPL Mumbai	
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 Hindustan fibre ltd vadodara	
15.	Emergency Window	M/s Hindustan fibre ltd vadodara	
16.	Hopper Window	M/s shatabdi safety glass vadodara	
17.	Roof ceiling	M/s Hindustan fibre ltd vadodara	
18.	Door way gangway ceiling	M/s Hindustan fibre ltd vadodara	
19.	Body Side Doors	M/s JBM Faridabad	
20.	Vestibule door(PPE)	M/s Hanspal coach products KXH	
21.	Vestibule door (NPPE)	M/s Hanspal coach products KXH	
22.	Bio Tank	M/s RAIL FAB KXH	
23.	Overhead Water Tank( 4X390L) 1,3,4	M/s RUBICON STEEL MOHALI	
24.	Overhead Water Tank( 4X390L) 2	M/s RAIL FAB KXH	
25.	Bib Cock/Controlled Discharge Tap	M/s KPR IND.MOHALI	
26.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
27.	Fire Extinguisher	M/s SAFTEY FIRST MUMBAI	NPP-2968,PP-3026
28.	Water purified	M/s Prag Polymer, Lucknow	NPP-2/083,PP-2/084
29.	Seat & Berth	M/s Hindustan fibre ltd vadodara	
30.	Luggage Rack	M/s Hindustan fibre ltd vadodara	
31.	Light Luggage Rack	M/s Hindustan fibre ltd vadodara	

SSE/QC/MCF/RBL  
वरिष्ठ अनुसंधान अभियंता

युग्मवस्तु विभाग  
रेलवे, रायबरेली (लालगंज)



# 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/ 642  
(DEEN DAYALU)

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

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 Frequency	REFERENCE & PERIOD OF TRIAL

**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 qualitycrfbl@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

रेडि०का०, रायबरेली (लालगंज)

सहायक यंत्रिक अभियंता/गुणवत्ता-1  
Assistant Mechanical Engineer / Quality-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareliजोगिन्दर सिंह  
Joginder Singh  
उप मुख्य गुणवत्ता प्रबन्धक  
Dy. Chief Quality Manager  
आधुनिक रेल डिब्बा कारखाना, रायबरेली





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001.

REV NO: 00

DATE: 18.01.2017

**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	183409/C	TYPE COACH	LWS DF
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**





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

**FOR ELECTRICAL ITEMS**

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

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>AMIT</b> On Board Sr no : <b>AE/USBC-605</b> HT Panel Sr no : <b>AE/USBC-593</b>	EDTS 333, Rev`01'Am-1	<b>01</b>
02.	Emergency light system for EOG type coaches (AEL), Make : <b>MAAVE</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>LIGHT Engg. Corp.</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>RT VISON</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>28</b>
08.	Provision & Mounting of Lavatory Light Make : <b>K LITE</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**







Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DQC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

**FOR ELECTRICAL ITEMS**

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

PAGE 3 OF 3

09.	Battery fuse box +ve Make : <b>AECO</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>AAL</b> Sr no: <b>BCH061710299</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-17016630</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>ELECOS</b>	EDTS-328 REV-C	<b>01</b> <b>set</b>
15.	Wheel set earthing equipment. Make : <b>DARSHAN</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>45/17/1191</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>AARSA</b> Lug date : <b>4/2017</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>	<b>DyCEE/P&amp;P/MCF/RBL</b>

रिक्त अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
लालगंज / रायबरेली  
MCF/RBL

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

