



**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 (DEEN DAYALU)**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1282

RLY	SWR	COACH NO	197783/C		DATE OF DISPATCH	19/12/2019
Type	LWS	Shell No.	96126	DISPATCH TO	Sr.DME/MYS	FUR.NO. DDG-237

1. Railway Board's Order No. : 2019/M(C)/142/2,DATED-21.11.2019
2. Tare Weight of Coach : 40.66 Tonnes
3. Carrying Capacity : (a) Seating: 100 (c) Luggage: NIL
4. Special feature:

S NO	DESCRIPTION	MAKE/SUPPLIER
A	Cushion transverse side luggage rack which can serve as seat during rush	M/S- H.F.GLASS VADODARA
B	Honey comb partition frame.	M/S- H.F.GLASS VADODARA
C	DGFRP/GFRE paneling.	M/S- H.F.GLASS VADODARA
D	Lavatory with DGFRP/GFRE paneling.	M/S- H.F.GLASS VADODARA
E	Additional Hand hold.	M/S- H.F.GLASS VADODARA
F	Counter top wash basin.	M/S- H.F.GLASS VADODARA
G	Gel coating & Anti Graffiti measures.	M/S-VIBGYOR
H	Air spring in secondary suspension (capacity-140KN).	M/s-TAYAL & CO
I	Fire Extinguishers	M/s-FIRE MAN,DEVIKA FIRE
J	Vestibule ends for inter-coach movement of passenger and the service staff (LWSCN type End wall)	
K-	Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.)letter no. MC/LHB/Brake, DT. 27.09.18	

**5. 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	NPP/PP 1097, 1100

**6. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-KANSAL ENGG	11
		Part NPP END M/S-KANSAL ENGG	11
		Complete M/S-KANSAL ENGG	11
2	Lav. side wall	M/S-ATHANACY RBL	LAV.1 LAV.2
		M/S-ATHANACY RBL	LAV.3 LAV.4
3	Side wall	LH SIDE MCF/RBL(CONT V4U)	10/01
		RH SIDE MCF/RBL(CONT V4U)	10/02
4	End wall	PP END M/s-DTL PUNE	
		NPP END M/s-DTL PUNE	
5	Roof	M/S-TI	45
6	Centre Buffer Coupler	M/S- SANROK	PP END 14620 NPP END 14549

**7. AIR BRAKE 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> .	6 - 10 sec.	08sec
		Max. pressure in BC	3.0 ±0.15 kg/cm <sup>2</sup> .	3.0 kg/cm <sup>2</sup>
		All Brake are applied	OK	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

**8. PAINTING DETAILS:**

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1	Paint	P.U	VIBGYOR	M/S-VIBGYOR	79/87	10/11/2019
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरि०अनु० अभियंता  
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रे०डि०का०, रायबरेली (लालगंज)









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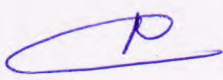
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**12. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELEY	19103B
2	Distribution valve	M/S-FAIVELEY	19105627B
3	Pull box	M/S-FAIVELEY	
4	FIBA	M/S-KBI FARIDABAD	9250/29,7564/29
5	Foot Step	M/S-SSPL FARIDABAD	
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
9	Lavatory inlay	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
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-HARE KRISHNA KXH	
13	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA KXH	
14	Body Side Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
15	Emergency Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
16	Lavatory/hopper Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
17	Roof Ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
18	Door way /gang way ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
19	Body Side Doors 1,2,3	M/S- JBM INDUSTRIES, FARIDABAD	
20	Body Side Doors 4,5,6	M/S-GOLD PLUS CHANDIGARH	
21	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23	Bio Tank	M/S- JSL LIFE STYLE LTD. GURGAON	
24	Pressurised flushing (Elect pneumatic)	NA	
25	Over head water tank (4x390L)	M/S- AMIT ENG.BADDI	
26	Bib cock/controlled discharge tap	M/s- JAQUAR PVT.LTD.ALWAR	
27	Lavatory Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
28	Fire Extinguisher	M/S-FIRE MAN,DEVIKA FIRE SAFETY NDLS	861,855
29	Water purified	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
30	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
31	Luggage Rack	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
32	Light Luggage Rack	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
33	RFID	N/A	

  
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**Modern Coach Factory Raebareilly**  
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13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

**16. 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 30months 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 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	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

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गुणवत्ता विभाग  
रे०डि०क्र०, रायबरेली (लालगंज)

वरिष्ठ यंत्रिक अभियंता/गुणवत्ता  
SME/AME/QC/MCF/RBL  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory Raebareilly

उप मुख्य गुणवत्ता प्रबंधक/रेल  
Dy. Chief Quality Engineer/Shell  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareilly





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/HOG NONAC DD COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC GS COACHES						
SHELL/COACH NO		197783/C		TYPE COACH		LWS/DDG
RAILWAY		SWR	ELECT.FIT DATE	18-12-2019	FUR.NO	DDG-237
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

*[Signature]*

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







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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>MV ELECTRO SYSTEMS</b> On Board Sr no : <b>19070076</b> HT Panel Sr no : <b>19070101</b>	EDTS 333, Rev`01`Am-1	<b>01</b>
02	Emergency light system for EOG type coaches (AEL), Make : <b>INTEG ELECT.</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>ORIENT</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 VISION</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>

*(Signature)*

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





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PAGE 3 OF 3

09.	Battery fuse box +ve Make : <b>SSK</b>	LW 71001,Alt-F	<b>01</b>
10	Battery fuse box -ve Make : <b>ISGPL</b>	LW 71002,Alt-F	<b>01</b>
11.	Regulated battery charger Make : <b>WAVES</b> Sr no: <b>W4K5G 19279</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
12.	9KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC 3089 LHB-2639</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</b> <b>set</b>
14.	Feeder junction boxes. Make : <b>MV ELECTRO</b>	EDTS-328 REV-C	<b>01</b> <b>set</b>
15.	Wheel set earthling equipment. Make : <b>PRIME ELECT.</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>I 0701</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>11/19</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
18.	Battery box for LHB coaches. Make : <b>NIL</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b> वरिष्ठ अनुभाग अभियन्ता	<b>AWM(ELECT.)/MCF/RBL</b> <b>SEE(P)/MCF/RBL</b>

गुणवत्ता नियंत्रण  
आरडिका / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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