



**Modern Coach Factory Raebareilly**  
**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/2019-20/1715

RLY	SWR	COACH NO	201777/C	DATE OF DISPATCH	28-Feb-20
Type	LWS	Shell No.	96227	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-338

- Railway Board's Order No. : 2019/M(C)/142/2, DATED-07-02-2020
- TARE WEIGHT OF COACH : 40.66 Tonnes
- Carrying Capacity : (a) Seating: 100 (c) Luggage: NIL
- Special feature:

S NO	DESCRIPTION	MAKE/SUPPLIER
A	Cushion transverse side luggage rack which can serve as seat during rush	M/S-LUCKY INTERPRISES
B	Honey comb partition frame.	MCFRBL/LLJ
C	DGFRP/GFRE paneling.	MCFRBL/LLJ
D	Lavatory with DGFRP/GFRE paneling.	MCFRBL/LLJ
E	Additional Hand hold.	MCFRBL/LLJ
F	Counter top wash basin.	MCFRBL/LLJ
G	Gel coating & Anti Graffiti measures.	M/S-VIBGYOR
H	Air spring in secondary suspension (capacity-140KN).	M/s-AVADH RAIL INFRA
I	Fire Extinguishers	M/s-AMTEX SAFTEY
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 1104/1105

**6. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-OMAX 157
		Part NPP END	M/S-AMIT ENGG 61
		Complete	MCFRBL-AIRCON 96227
2	Lav. side wall	M/S-ATHANCY ALD	LAV.1
		M/S-ATHANCY ALD	LAV.2
3	Side wall	LH SIDE	LAV.3
		RH SIDE	LAV.4
4	End wall	PP END	MCFRBL-V4U LKO 92
		NPP END	MCFRBL-V4U LKO 92
5	Roof	M/S-RAIL TECH KXH	
6	Centre Buffer Coupler	M/S-RAIL TECH KXH	
		MCFRBL-CONT.	47
		M/S-ESCORTS	PP END 3019 NPP END 3056

**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.	09sec
		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	74/90	28-01-2020
2	Insulation			Satisfactory		

*Deena*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (नालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1715

RLY	S	W	R	-	Coach No.	2	0	1	7	7	7	/	C	-	DATE OF DISPATCH	2	8	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	Shell No.	9	6	2	2	7	FUR.NO	DDG-338
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**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	193607				193608			
Bogie Type	FIAT				FIAT			
Frame no.	MIPL-408				MIPL-412			
Bolster no.	SCI-493				SCI-514			
Axle No	20 T - 8696 RWF		20 V- 0792 RWF		20 T-8296 RWF		20 V- 0791 RWF	
Wheel Dia	917.286	917.449	917.277	917.421	917.258	917.387	917.271	917.386
Wheel Disc No	TZ 11-19 76233-9UD7	TZ 11-19 77647-9WG9	TZ 11-19 76235-9UD7	TZ 11-19 77453-9UE6	TZ 06-19 53054-9QJ7	TZ 02-19 24053-9MK3	TZ 11-19 76234-9VD7	TZ 05-19 41246-9PH1
R.B. Nos.	11-19 34005	11-19 33717	11-19 33232	11-19 33810	11-19 44068	11-19 33651	11-19 33788	11-19 35639
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

**10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-**

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AWADH RAIL INFRA LTD. SR.NO-01-20-7090	AWADH RAIL INFRA LTD. SR.NO-01-20 7093	AWADH RAIL INFRA LTD. ARL 01-20 7120	AWADH RAIL INFRA LTD. ARL 01-20 7142

**11. TRACEABILITY OF BOGIE ITEMS :-**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	273445,266891	273222,273315
2.	Primary outer Spring	CMGBD	10-19-F07-873-(1080,999,995,997)	10-19-F07-873-(1078,1105,998,1043)
3.	Primary Inner Spring	CMGBD	10-19-F06-842-(123,99,311,236)	10-19-F06-842-(668,166,282,213)
4.	Primary Damper	IAI	12-19(286039,286149,286263,286675)	12-19 (286653,286577,286209,286829)
5.	Secondary Damper	IAI	08-19(268271,268165)	08-19(268114,268160)
6.	Lateral Damper	IAI	08-19 - 268512	02-19 - 241162
7.	Brake Cylinder	KBI	C-(2211,1137,1136,2207)-K29	C-(2183,1009,1130,2206)K-29
8.	Brake Caliper	KBI	B-(8782,8985,8982,8784)-19	B-(8738,8845,8903,8783)-29
9.	Brake Disc	FAV	01-20-(684,681,259,348)D133561-300	01-20-(1137,1136,347,349)D133561-300
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	(SF)SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT+KNORR	E-1910, K-10-19B-7398	E-1910, K-16-19B-7365
17.	Check Valve	ESCORT	1909	1910
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	101019-3,201119-1,161119-1,161119-1	15101-3,211119-1,211119-1,211119-1
22.	Control Arm Lower	RVE	171119-3,171119-3,271119-3,271119-3	161119-3,171119-3,211119-1,171119-1
23.	Phonic Wheel	KBI	K-04-19	K-04-19

Signature of SSE/Bogie/QC







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Type	LWS	Shell No.	96227			FUR.NO.	DDG-338

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	4331 48/19
2	Distribution valve	M/S- KBI	2019L9570
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	7465/29,7185/29
5	Foot Step	M/S SSPL FARIDABAD	
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-OVPL MUMBAI	
8	PVC	M/S-PREMIER POLU FILM	
9	Lavatory inlay	M/S-SEEMA BHOPAL	
10	UIC Vestibule (PPE)	M/S-KRP PUNE	
11	UIC Vestibule (NPPE)	M/S-KRP PUNE	
12	Gangway bridge mounting (PPE)	M/s-MMW KXH	
13	Gangway bridge mounting (NPPE)	M/s-MMW KXH	
14	Body Side Window	M/S-EXCEL COMPOSITE KOLKATA	
15	Emergency Window	M/S-FIBRO PLASTIC LTD HOOGHLY	
16	Lavatory/hopper Window	M/S-SHATABDI VADODARA	
17	Roof Ceiling	M/S-JR JUC	
18	Door way /gang way ceiling	M/S-JR JUC	
19	Body Side Doors 1,3	M/S-GOLD PLUS CDG	
	Body Side Doors 2,4	M/S-SUKATA CDG	
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
22	Bio Tank	M/S-JSL LIFE STYLE	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S-AMIT ENG. MOHALI-02NO+RAIL FAB -02 NOS	
25	Bib cock/controlled discharge tap	M/s-AGMECO LTD	
26	Lavatory Doors	M/S-JR JUC	
27	Fire Extinguisher	M/s-AMTEX SAFTEY	14487/14540
28	Water purified	NIL	
30	Seat & Berth	M/S-OVPL MUMBAI	
31	Luggage Rack	M/S-LUCKY INTERPRISES	
32	Light Luggage Rack	NIL	
33	Ventury grill	MCF/RBL/LIJ	
34	RFID	NIL	

*Deena*

SSE/QC/MCF/RBL

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गुणवत्ता विभाग

रेल डिब्बा कारखाना, रायबरेली (सहायक)





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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Type	LWS	Shell No.	96227			FUR.NO.	DDG-338

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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. 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

वरिष्ठ गुणवत्ता अभियंता  
गुणवत्ता विभाग  
रेडिओका, रायबरेली (नालगज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory Raebareli

डी. चैफ़ गुणवत्ता प्रबन्धक  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli





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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		201777/C		TYPE COACH		LWS/DDG
RAILWAY	SWR	ELECT.FIT DATE	18-02-2020	FUR.NO	DDG-338	
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/HOG NONAC DD COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>SSK</b> On Board Sr no : <b>2019/07/181</b> HT Panel Sr no : <b>2019/07/242</b>	EDTS 333, Rev` 01`Am-1	<b>01</b>
02.	Emergency light system for EOG type coaches (AEL), Make : <b>DR AUTO</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
03.	Provision & Mounting of PACIL Assly. Make: <b>RT VISION</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.</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>ENSAVE</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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**ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES**

PAGE 3 OF 3

09.	Battery fuse box +ve Make : <b>RICHMOND</b>	LW 71001,Alt-F	<b>01</b>
10	Battery fuse box -ve Make : <b>RICHMOND</b>	LW 71002,Alt-F	<b>01</b>
11.	Regulated battery charger Make : <b>WAVES</b> Sr no: <b>W4K5A 201363</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-2988</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>MV ELECTRO</b>	EDTS-328 REV-C	<b>01</b> <b>set</b>
15.	Wheel set earthing equipment. Make : <b>CHANDA &amp; CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b> <b>sets</b>
16.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0119362748</b>	M/s : <b>KNORR</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>HLB</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>HITECH</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b> वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का०/लालगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	<b>AWM(ELECT.)/MCF/RBL</b> <b>SEE(P)/MCF/RBL</b> स० कार्य प्रबन्धक/विद्युत आ०रे०डि०का०/रायबरेली A.W.M./Electrical/MCF/RBL

