



		<b>Modern Coach Factory Raebareli</b> <b>आधुनिक रेल डिब्बा कारखाना, रायबरेली</b>			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/2019-20/1600						
RLY	SWR	COACH NO	201070/C	DATE OF DISPATCH		12-Feb-20
Type	LWS	Shell No.	96218	DISPATCH TO	Sr.DME/MYS	FUR.NO. DDG-321
1. Railway Board's Order No. : 2019/M(C)/142/2,DATED-16-01-2020 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 WORKS VADODRA	
B	Honey comb partition frame.				M/S-H.F GLASS WORKS VADODRA	
C	DGFRP/GFRE paneling.				M/S-H.F GLASS WORKS VADODRA	
D	Lavatory with DGFRP/GFRE paneling.				M/S-H.F GLASS WORKS VADODRA	
E	Additional Hand hold.				M/S-H.F GLASS WORKS VADODRA	
F	Counter top wash basin.				M/S-H.F GLASS WORKS VADODRA	
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-DEVIKA SAFTEY NDLS	
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	1103/1104
6. TRACEABILITY OF SHELL ITEMS:						
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1	Under frame	Front PP END	M/S-OMAX AUTO LTD	37		
		Part NPP END	M/S-OMAX AUTO LTD	37		
		Complete	M/S-OMAX AUTO LTD	37		
2	Lav. side wall	M/S-DTL PUNE	LAV.1	LAV.2		
		M/S-DTL PUNE	LAV.3	LAV.4		
3	Side wall	LH SIDE	MCFRBL-CONT.V4U	57/01		
		RH SIDE	MCFRBL-CONT.V4U	57/02		
4	End wall	PP END	M/S-OMAX REWARI			
		NPP END	M/S-OMAX REWARI			
5	Roof	MCF/CONT	25			
6	Centre Buffer Coupler	M/S-SANROK ENT	PP END	15334	NPP END	15425
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	73/89	16-01-2020
2	Insulation			Satisfactory		

*Deena*

SSE/QC/MCF/RBL

वारं ०५ नु ० जाययंता  
गुणवत्ता विभाग  
रेडि०का०, रायबरेली (लालगंज)







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/2019-20/1600

RLY	S	W	R	Coach No.	2	0	1	0	7	0	/	C	-	DATE OF DISPATCH	1	2	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	-	-	Shell No.	9	6	2	1	8	FUR.NO	DDG-321
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**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	192820				192819			
Bogie Type	FIAT				FIAT			
Frame no.	AML-106				WIL-524			
Bolster no.	SCI-422				SCI-446			
Axle No	19 L- 5583 RWF		19 N - 4521 RWF		19 P 6781 RWF		19 P- 6863 RWF	
Wheel Dia	917.355	917.296	917.318	917.234	917.3	917.266	917.342	917.276
Wheel Disc No	TZ 64603-9RQ4	TZ 65807-9RQO	TZ 58131-9QI3	TZ 53891-9RQ8	TZ 08-19 73965-95L3	TZ 07-19 69109-9RL6	TZ 07-19 62440-9RP0	TZ 07-19 68993-9RM5
R.B. Nos.	11-19 41285	11-19 42972	11-19 43860	11-19 40687	11-19 43360	11-19 43662	11-19 43792	11-19 40650
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.	AVADH RAIL INFRA LTD. 11-19-6013	AVADH RAIL INFRA LTD. 11-19-6010	AVADH RAIL INFRA LTD. 11-19 5999	AVADH RAIL INFRA LTD. 11-19 5970


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

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	279609,280144	279960,280011
2.	Primary outer Spring	CMAFI	09-19-1100-(189,234,188,187)	07-19-1100-(398,400,396,407)
3.	Primary Inner Spring	CMSTL	02-19-06A-(3583,4143,4154,1375)	02-19-06A-(1772,1492,1254,1358)
4.	Primary Damper	IAI	11-19 (281896,281304,281741,281225)	11-19 (281720,281063,281415,281700)
5.	Secondary Damper	GV SVD/IAI	11-19 (03129,03027)	10-19 (276956,276865)
6.	Lateral Damper	KONI	04-19 - 02225	04-19 024487
7.	Brake Cylinder	FAV	L-19-374,M-19-689,M-19-101,L-19-333	L-19-348,K-19-807,L-19-710,L-19-740
8.	Brake Caliper	FAV	M-19-(1732B,1730B,1731B,1733B)	M19-1697B,M6-1695B,M19-1694,M19-1696
9.	Brake Disc	FAV	8141,8142,8173,8176	12-19-(882,8815,8794,8795)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SF-(SARITA)		
13.	Traction lever make	AEW/ABW		
14.	Ball joint traction lever	GMT/ ARYAN		
15.	Ball joint traction centre	GMT/ ARYAN		
16.	Leveling Valve	KNORR	19B-(5786,5868)	19B-(5859,5758)
17.	Check Valve	KNORR	19484	19577
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA +GMT		
20.	Fork make	RNG/ EMSON		
21.	Control Arm Upper	KUMAR	0568,0882,0589,0811	0557,0583,0531,0585
22.	Control Arm Lower	KUMAR	1101,0108,1031,1830	N-1530,N-0094,N850,N-0826
23.	Phonic Wheel	ESCORT		F7-KEP-177

Signature of SSE/Bogie/QC





	<b>Modern Coach Factory Raebareli</b> <b>आधुनिक रेल डिब्बा कारखाना, रायबरेली</b>	DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018
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ROLLING STOCK CERTIFICATE (DEEN DAYALU)  
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1600

RLY	SWR	COACH NO	201070/C	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	12-Feb-20
Type	LWS	Shell No.	96218			FUR.NO.	DDG-321

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	4014-40/19
2	Distribution valve	M/S- KBI	2019K9207
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	7484/29,7894/29
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-H.F GLASS WORKS VADODRA	
9	Lavatory inlay	M/S-H.F GLASS WORKS VADODRA	
10	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
11	UIC Vestibule (NPPE)	M/S-SUNCREAST 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-H.F GLASS WORKS VADODRA	
15	Emergency Window	M/S-H.F GLASS WORKS VADODRA	
16	Lavatory/hopper Window	M/S-H.F GLASS WORKS VADODRA	
17	Roof Ceiling	M/S-H.F GLASS WORKS VADODRA	
18	Door way /gang way ceiling	M/S-H.F GLASS WORKS VADODRA	
19	Body Side Doors	M/S-H.F GLASS WORKS VADODRA	
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
22	Bio Tank	M/S- JSL LIFE STYLE LTD.	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S-AMIT ENG. MOHALI(02nos),RAIL FAB(02nos)	
25	Bib cock/controlled discharge tap	M/s-JAQUAR PVT LTD ALWAR	
26	Lavatory Doors	M/S-H.F GLASS WORKS VADODRA	
27	Fire Extinguisher	M/s-DEVIKA SAFTEY NDLS	1238/5364
28	Water purified	M/S-H.F GLASS WORKS VADODRA	
29	Seat & Berth	M/S-H.F GLASS WORKS VADODRA	
30	Luggage Rack	M/S-H.F GLASS WORKS VADODRA	
31	Light Luggage Rack	N/A	
32	Ventury grill	M/S-H.F GLASS WORKS VADODRA	
33	RFID	N/A	

*Deema*  
SSE/QC/MCF/RBL  
वरिष्ठ निरीक्षक

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)







Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002  
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RLY	SWR	COACH NO	201070/C				
Type	LWS	Shell No.	96218	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	12-Feb-20
						FUR.NO.	DDG-321

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 qualityrcfbl@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. QM/MCF/RBL

वरिष्ठ अभियंता  
गुणवत्ता विभाग  
रेडि०का०, रायबरेली (लालगंज)

वरिष्ठ यांत्रिक अभियंता, गुणवत्ता  
Senior Mechanical Engineer (Quality)  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory Raebareli

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







Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

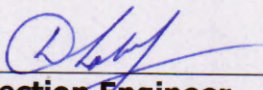
DATE: 18.01.2017

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

PAGE 1 OF 3

**ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC GS COACHES**

SHELL/COACH NO		201070/C		TYPE COACH		LWS/DDG	
RAILWAY		SWR	ELECT.FIT DATE	10-02-2020	FUR.NO	DDG-321	
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

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**FOR ELECTRICAL ITEMS**

**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>SIGNOTRON</b> Sr no: <b>12190789</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-2705</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.INTERNATIONALS</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>RSI</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>KNORR</b> Sr no : <b>0119362752</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>AMARA RAJA</b> Lug date : <b>01/20</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
18.	Battery box for LHB coaches. Make : <b>TECHNO</b>	CC 91205	<b>01</b>

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

स० कार्य प्रबन्धक / विद्युत  
आ०रे०डि०का० / रायबरेली  
A.W.M./Electrical/MCF/RBL

