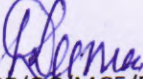
		<b>Modern Coach Factory Raebareli</b> <b>आधुनिक रेल डिब्बा कारखाना, रायबरेली</b>		DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018		
ROLLING STOCK CERTIFICATE (DEEN DAYALU) Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1676						
RLY	SWR	COACH NO	201643/C	DATE OF DISPATCH	20-Feb-20	
Type	LWS	Shell No.	96185	DISPATCH TO	Sr.DME/MYS	
		FUR.NO.	DDG-314			
1. Railway Board's Order No. : 2019/M(C)/142/2,DATED-03-06-2019 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-ACME INDIA NEW DELHI		
B	Honey comb partition frame.			M/s-ACME INDIA NEW DELHI		
C	DGFRP/GFRE paneling.			M/s-ACME INDIA NEW DELHI		
D	Lavatory with DGFRP/GFRE paneling.			M/s-ACME INDIA NEW DELHI		
E	Additional Hand hold.			M/s-ACME INDIA NEW DELHI		
F	Counter top wash basin.			M/s-ACME INDIA NEW DELHI		
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-CHIRAG INDUSTRIES HR		
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	1098/1100	
6. TRACEABILITY OF SHELL ITEMS:						
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1	Under frame	Front PP END	M/S-OMAX AUTOS	24		
		Part NPP END	M/S-OMAX AUTOS	24		
		Complete	M/S-OMAX AUTOS	24		
2	Lav. side wall	M/S-DTL PUNE	LAV.1	LAV.2		
		M/S-DTL PUNE	LAV.3	LAV.4		
3	LH SIDE	MCFRBL-CONT.V4U	49/01			
	RH SIDE	MCFRBL-CONT.V4U	49/02			
4	PP END	MCF/RBL				
	NPP END	MCF/RBL				
5	Roof	M/S-JSL	2			
6	Centre Buffer Coupler	M/S-SANROK ENT	PP END	15424	NPP END 15402	
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.	08 sec		
		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	74/89	10-01-2020
2	Insulation	Satisfactory				

  
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक  
गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (बिहार)





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/2019-20/1676

RLY	S	W	R	-	Coach No.	2	0	1	6	4	3	/	C	-	DATE OF DISPATCH	2	0	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	Shell No.	9	6	1	8	5	FUR.NO	DDG-314
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**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	192765				192766			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-131				ECBT-132			
Bolster no.	AMIT-132				AMIT-143			
Axle No	19 P - 1955 RWF		19 P - 1508 RWF		19 P - 2332 RWF		19 P - 1317 RWF	
Wheel Dia	917.401	917.402	917.332	917.466	917.314	917.458	917.371	917.521
Wheel Disc No	TZ 07-19 64681-9RQ1	TZ 07-19 62162-9RR4	TZ 07-19 67081-9RM8	TZ 06-19 53730-9QH8	TZ 06-19 54502-9PD8	TZ 06-19 54504-9PD8	TZ 06-19 58200-9PI9	TZ 06-19 53721-9QH8
R.B. Nos.	09-19 30985	08-19 29501	10-19 40012	09-19 31029	08-19 28459	10-19 40125	10-19 39797	11-19 40136
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.	TAYAL & CO. SR.NO- 10-19 4644	TAYAL & CO. SR.NO- 10-19 5031	TAYAL & CO. SR.NO- 10-19 4655	TAYAL & CO. SR.NO- 10-19 4690

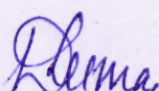
**11. TRACEABILITY OF BOGIE ITEMS :-**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	283057,282991	283032,283137
2.	Primary outer Spring	CMSTL	12-19 F07-N16-07A(6267,6067,6147,6069)	12-19 F07-N16-07A(6036,6070,6138,6047)
3.	Primary Inner Spring	CMSTL/CMGBD	10-19 F06-842(142,25,149,741)	10-19 F06-842(126,314,749,531)
4.	Primary Damper	IAI	11-19 (281076,281247,281199,281755)	11-19 (281582,281006,281203,281042)
5.	Secondary Damper	IAI	11-19 (283256,283297)	11-19 (283506,283301)
6.	Lateral Damper	KONI	04-19 - 01811	04-19 - 01966
7.	Brake Cylinder	KBI	B(0935,9870,9848,0922)-K-29	C(0917,0916)-K-29, B(986,9881)-K-29
8.	Brake Caliper	KBI	B(7623,7771,7774,7621)-29	B(7622,7772,7773,7628)-29
9.	Brake Disc	FAV	11-19 (6814,6766,1807,6849)D133561-300-1	11-19 (6806,6804,6799,6914)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19-B1302, 16-19-B1308	13-19-B1649, 13-19-B1671
17.	Check Valve	KNORR	07-19 17465	07-19 17477
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ ARYAN		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	151,476,804,542	670,1024,563,689
22.	Control Arm Lower	SF	262,492,306,842	670,918,218,749
23.	Phonic Wheel	--	K-11-19, K-11-19	K-11-19, K-11-19

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	
ROLLING STOCK CERTIFICATE (DEEN DAYALU) Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1676					
RLY	SWR	COACH NO	201643/C	DATE OF DISPATCH	20-Feb-20
Type	LWS	Shell No.	96185	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-314
12. TRACEABILITY OF FURNISHING ITEMS:					
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)		
1	Air Brake Module	M/S- KBI	3996-40/19		
2	Distribution valve	M/S- KBI	2019K9189		
3	Pull box	M/S- KBI			
4	FIBA	M/S- KBI	7909/29,7903/29		
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-ACME INDIA NEW DELHI			
9	Lavatory inlay	M/s-ACME INDIA NEW DELHI			
10	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT MUMBAI			
11	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT 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-ACME INDIA NEW DELHI			
15	Emergency Window	M/s-ACME INDIA NEW DELHI			
16	Lavatory/hopper Window	M/s-ACME INDIA NEW DELHI			
17	Roof Ceiling	M/s-ACME INDIA NEW DELHI			
18	Door way /gang way ceiling	M/s-ACME INDIA NEW DELHI			
19	Body Side Doors	M/s-ACME INDIA NEW DELHI			
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD			
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD			
22	Bio Tank	M/S-JSL LIFESTYLE LTD.			
23	Pressurized flushing(ele.pneu.)	M/S-IMI			
24	Over head water tank (4x390L)	M/S-AMIT ENGG MOHALI			
25	Bib cock/controlled discharge tap	M/s- AGMECO (P) LTD. UK			
26	Lavatory Doors	M/s-ACME INDIA NEW DELHI			
27	Fire Extinguisher	M/s-CHIRAG INDUSTRIES HR	140466/140432		
28	Water purified	M/s-ACME INDIA NEW DELHI	457/470		
29	Seat & Berth	M/s-ACME INDIA NEW DELHI			
30	Luggage Rack	M/s-ACME INDIA NEW DELHI			
31	Light Luggage Rack	NA			
32	Ventury grill	M/s-ACME INDIA NEW DELHI			
33	RFID	NA			

  
SSE/QC/MCF/RBL  
**वरिष्ठ अनुष्ठानिक अभियंता**  
गुणवत्ता विभाग  
रेल डिब्बा कारखाना, रायबरेली (लालगंज)





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/2019-20/1676

RLY	SWR	COACH NO	201643/C	DATE OF DISPATCH	20-Feb-20
Type	LWS	Shell No.	96185	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-314

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 यांत्रिक अभियन्ता  
गुणवत्ता विभाग  
रेडि०का०, रायबरेली (सातगंज)

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता  
Senior Mechanical Engineer/Quality  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory Raebareli

जोगिन्दर 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

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC GS COACHES					
SHELL/COACH NO		201643/C		TYPE COACH	
RAILWAY		SWR		LWS/DDG	
ELECT.FIT DATE		19-02-2020		FUR.NO	
DDG-314					
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/HOG NONAC DD COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>SSK</b> On Board Sr no : <b>2019/07/154</b> HT Panel Sr no : <b>2019/07/245</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>

*(Signature)*

**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

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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>ELECTRIC EQUIPMENT COMPANY</b> Sr no: <b>12190053</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-2958</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 set</b>
14.	Feeder junction boxes. Make : <b>MV ELECTRO</b>	EDTS-328 REV-C	<b>01 set</b>
15.	Wheel set earthing equipment. Make : <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
16.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0119402947</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>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>HITECH</b>	CC 91205	<b>01</b>

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

गुणवत्ता नियंत्रण  
आ0रे0डि0का0 / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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



MCF/RBL