



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/2020-21/491

RLY	WR	COACH NO	204828/C	DATE OF DISPATCH	18-Sep-20
Type	LWS	Shell No.	20F052	DISPATCH TO	SSE/C&W/INDB/WD
				FUR.NO.	DDG-560

1. Railway Board's Order No. : 2020/M(C)/142/2, DATED-11.06.2020
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-LUCKY GURGAON
B	Honey comb partition frame.	M/S-MILTON AHMEDABAD
C	DGFRP/GFRE paneling.	MCFRBL
D	Lavatory with DGFRP/GFRE paneling.	MCFRBL
E	Additional Hand hold.	MCFRBL
F	Counter top wash basin.	MCFRBL
G	Gel coating & Anti Graffiti measures.	M/S-GSI
H	Air spring in secondary suspension (capacity-140KN).	M/S-AVADH RAIL INFRA+RESISTOFLEX
I	Fire Extinguishers	M/S-AMTEX DELHI
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 1103/1098

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front Part	PP END M/S-OMAX AUTO
		NPP END	M/S-OMAX AUTO
	Complete	M/S-OMAX AUTO	20F052
2	Lav. side wall	M/S-MIDAS GUJRAT	LAV.1
		M/S-MIDAS GUJRAT	LAV.2
			LAV.3
			LAV.4
3	Side wall	LH SIDE	MCFRBL-CONT.LKO
		RH SIDE	MCFRBL-CONT.LKO
4	End wall	PP END	M/S-PIL
		NPP END	M/S-SIPL PALWAL
5	Roof	MCFRBL-CONT.	26
6	Centre Buffer Coupler	M/S-FRONTIER	PP END 92P2 NPP END 64P1

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.	07 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	GSI	M/S-GSI (S&A)	73/90	28-Aug-20
2	Insulation			Satisfactory		

*Deena*  
29/10/2020  
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक  
गुणवत्ता विभाग  
रेलवे कारखाना, 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/2020-21/491

RLY	W	R	-	-	Coach No.	2	0	4	8	2	8	/	C	-	DATE OF DISPATCH	1	8	0	9	2	0	2	0
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DISPATCH	SSE/C&W/INDB/WD	Type	L	W	S	Shell No.	2	0	F	0	5	2	FUR.NO	DDG-560
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**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	201188				201187			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT - 694				ECBT-916			
Bolster no.	SHIVALIK - 92				MCF/RBL - 2244			
Axle No	20 Y - 7898 RWF		20 W - 9085 RWF		20 V - 9545 RWF		20 W - 0616 RWF	
Wheel Dia	917.51	917.448	917.581	917.486	917.53	917.47	917.616	917.549
Wheel Disc No	TZ 11-19 85454-9WM2	TZ 11-19 85613-9WFO	TZ 06-19 61025-9QL1	TZ 11-19 82276-9VF8	TZ 11-19 79214-9VG3	TZ 12-19 90178-9WL9	TZ 11-19 82280-9VF8	TZ 11-19 79124-9WE1
R.B. Nos.	11-19 32470	12-19 35984	11-19 32672	12-19 34610	12-19 34978	12-19 34194	12-19 35905	12-19 35423
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 INDRA 07-20 9914	AVADH RAIL INDRA 07-20 9930	RESISTOFLEX 03-20 14013	RESISTOFLEX 03-20 14037

**11. TRACEABILITY 90F BOGIE ITEMS :-**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	293899,294883	294739,293868
2.	Primary outer Spring	CMFSK/CMAFI	10-19 1100-114-(497,674,532,697)	06-20 1100-(124,84,98),CMFSK-11-19 1100-115-833
3.	Primary Inner Spring	CMFSK/CMAFI	10-19 1101-101-(498,585,951,856)	06-20 1101-(193,185,192,183)
4.	Primary Damper	IAI	12-19 (290977,288652,289280,290135)	12-19 (289288,288681,288952,290979)
5.	Secondary Damper	IAI	01-20 (302325,302666)	01-20 (295731,302430)
6.	Lateral Damper	IAI	11-19 283891	12-19 297800
7.	Brake Cylinder	FAV	G20-(431,499,498,363)	F20-(276,428,430,277)
8.	Brake Caliper	FAV	G20-(1652,1650,1649,1651)B	G20-(1860,1857,1858,1859)B
9.	Brake Disc	KBI	24229053-0005-27-20, 24229053-0014-27-20, 24229052-0050-28-20, 24229053-0002-28-20	24229052-0057-28-20, 24229053-0017-28-20, 24229053-0004-28-20, 24229052-0052-28-20
10.	Ball Joint Control Arm	PRAG		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR/ESCORT	22-20-C5636,16-19-B6167	06-20,06-20
17.	Check Valve	KNORR/ESCORT	02-20 24648	06-20
18.	Anti roll bar Make	SF(SARITA)/RF		
19.	Roll Link make	SARITA+GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SF(SARITA)	H-87,H-76,H-31,H-112	H-124,H-27,H-58,H-148
22.	Control Arm Lower	SF(SARITA)	H-113,H-136,H-99,H-138	H-146,H-138,H-84,H-197
23.	Phonic Wheel	KBI	K-05-20	K-05-20

Signature of SSE/Bogie/QC





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				FUR.NO.	DDG-560

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- FAIVELEY	G20219B
2	Distribution valve	M/S- FAIVELEY	20075725B
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	9141/29,9076/29
5	Foot Step	M/S-FABRICON KOLKATA	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-GREENPLY LKO	
8	PVC	M/S-PRIMER POLYFILM	
9	Lavatory inlay	M/S-SFEMA INDS 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-SHATABDI SAFTEY VADODARA	
15	Emergency Window	M/S-SHATABDI SAFTEY VADODARA	
16	Lavatory/hopper Window	M/S-BALA JI DELHI	
17	Roof Ceiling	M/S-MILTON INDS.AHEMEADNAGAR	
18	Door way /gang way ceiling	M/S-MILTON INDS.AHEMEADNAGAR	
19	Body Side Doors 1,6	M/S-GOLD PLUS INDS CDG	
	Body Side Doors 2,3,4,5	M/S-JBM FARIDABAD	
20	Vestibule Door(PPE)	M/S-KALSI LDH	
21	Vestibule Door(NPPE)	M/S-KALSI LDH	
22	Bio Tank	M/S-JSL LIFE STYLE	
23	Pressurized flushing(ele.pneu.)	M/S-SPAC	
24	Over head water tank (4x390L)	M/S-AMIT ENGG.MOHALI	
25	Bib cock/controlled discharge tap	M/s-AGMECO UK	
26	Lavatory Doors	M/S-MSL CDG	
27	Fire Extinguisher	M/S-AMTEX DELHI	17587/17848
28	Water purified (02 nos)	NIL	
29	Seat & Berth	M/S-OVPL MUMBAI	
30	Luggage Rack	M/S-LUCKY GURGAON	
31	Light Luggage Rack	NIL	
32	Ventury grill	MCFRBL	
33	RFID	NIL	

*Deema*  
29/10/2020  
SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान विभाग  
गुणवत्ता विभाग  
रेडिओका, रायबरेली (तालगाँज)





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				FUR.NO.	DDG-560

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:

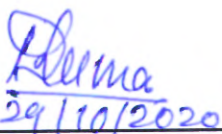
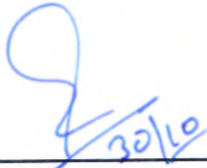

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30months 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.

 29/10/2020	 30/10	 Dy.CQM/MCF/RBL
SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ अनुष्ठानिक विभाग  
गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (लालगंज)

Assistant Mechanical Engineer / Quality-1  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB EOG NON AC GS COACH  
(ANTYODAYA & DEENDAYALU).

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC GS COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC GS COACH.						
TYPE COACH		LWS/DDG		SHELL/COACH NO		204828/C
RAILWAY		WR	ELECT. FIT DATE	16-09-2020	MCF EUR. NO.	DDG -560
Sr. no.	Description of tests					Remarks
1.	WORKING OF COMPARTMENT LIGHTS.					OK
2.	WORKING OF MOBILE CHARGING SOCKETS					OK
3.	WORKING OF ACCIDENTAL EMERGENCY LIGHTS & PACIL					OK
4.	RAILWAY CARRIAGE FAN					OK
5.	WHEEL SLIDE PROTECTION SYSTEM ( WSP )					OK
6.	WORKING OF 9 KVA TRANSFORMER					OK
7.	WORKING OF REGULATED BATTERY CHARGER/EMERGENCY BATTERY CHARGER.					OK
8.	SAFETY :					--
8.1.	FUSES AND THEIR RATING					OK
8.2.	CONTROL CIRCUIT					OK
8.3.	POWER CIRCUIT					OK

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







Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC GS COACHES  
(ANTYODAYA & DEENDAYALU).

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
01.	Fitment of Switch board cabinet.(set of panel) Make/Sr.no.: <b>NEC</b> On Board: <b>2020066053</b> HT Panel: <b>2020076450</b>	EDTS 333, Rev`01`.Am-I	<b>01 SET</b>
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: <b>VIMAL</b> Sr no.: <b>VTC 3089 LHB - 3946</b>	RDSO/PE/SPEC/TL 0158, 2010, Rev`0`.Ty I.	<b>01</b>
03.	Mounting of 09KVA TFR.	As per drg no 1.10113.0.76.300.001,Alt -B.	OK
04.	Provision of wire rope assembly for Transformer.	As per EDML-152, Rev.-Nil.	OK
06.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: <b>WAVES</b> Sr. no.: <b>W4K51201904</b>	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.-1)	<b>01</b>
07.	Provision of Feeder Junction Box Make : <b>RSI</b>	EDTS-328 REV-C,AM-4,Type-II,COR-2	<b>01 SET</b>
08.	Provision of IVC dummy Socket assembly.	As per Drg. No. LW71302,Alt-nil	<b>01 SET</b>
09.	Battery fuse box +ve Make : <b>RICHMOND</b>	As per LW 71001,Alt- H	<b>01</b>
10.	Battery fuse box -ve Make : <b>RICHMOND</b>	As per LW 71002,Alt-I	<b>01</b>
11.	Provision of Battery boxes/ Cradles. Make: <b>HITECH</b>	As per Drg. No. 110113.0.76.700.005 W/O item 5,22,23,26 & 27,Alt-C or Latest.	<b>01</b>
12.	Provision of batteries Type: 110 V, 120 AH VRLA SMF Battery Set. Make: <b>AMARA RAJA</b> Lug Date: <b>06/20</b>	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	<b>01</b>

  
Senior Section Engineer  
Quality control / Electrical  
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अधिकारी / अधिकारी



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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC GS COACHES  
(ANTYODAYA & DEENDAYALU).

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
13.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: <b>ELECTROWAVES</b>	As per Drg. No. ICF/SK-7-6-158,alt-g. RDSO/PE/SPEC/TL/0021-2005 (Rev-3) with RCF annex-1, am-1.	<b>30</b>
14.	Fitment of LED Light fittings for Cabin, Doorway and Gangway area. 9 watt. Make: <b>FIEM</b>	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 .Type- B1. Drg. No. CC76453.	<b>28</b>
15.	Fitment of LED Light fittings for Lavatory Lights. 9 Watt. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-D. Drg. No. LW76092.	<b>04</b>
16.	Fitment of LED Light fittings for PACIL. Make: <b>KAVERI</b>	As per RDSO/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-I. Drg. No. LW76098.	<b>02</b>
17.	Fitment of Accidental Emergency Light (AEL) Make: <b>INTEG</b>	As per RDSO/SPEC/AC/0180-2016,Rev-0 ,Type-II.	<b>04</b>
18.	Provision of Cable binder	Drg. No. CC76120,Item - 1,2,3.100mm,200mm,300mm respectively.	<b>OK</b>
19.	Provision of Cable Jacket System.	EDTS-138,Cor-2,Item-5,7,8,9,11.	<b>OK</b>
20.	Provision of Switch plate assembly along with mobile charging sockets. Make: <b>SSK</b>	EDML-086, Rev-6, Am-1, Table-1, Item-1.	<b>10</b>

*Senior Section Engineer*  
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Sr. no.	Description	Drg./Spec no.	Quantity per Coach
21.	Provision of Switch plate assembly along with mobile charging sockets. Make:SSK	EDML-086, Rev-6, Am-1, Table-1, Item-2.	10
22.	Provision of High Capacity Inter – Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3 ph, 50 Hz). Make. 1.(NPP): MLI 2.(PP): MLI	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	1 SET
23.	Mounting of Inter Vehicle coupler	As per drg no.1.10113.0.74.000.001,Alt-B	OK
24.	Provision of Wheel Set Earthing equipment. Make. NPP: PRIME PP: PRIME	EDTS101,REV-C,AM-1	1 SET
25.	Provision of Anti Skid Disk Brake System.(WSP) Make :FAIVELEY Sr no : 12402	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 SET

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

गुणवत्ता नियंत्रण  
आ०रे०डि०का० / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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



भारतीय रेल / रायबरेली