



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/2020-21/489

RLY	WR	COACH NO	204826/C		DATE OF DISPATCH	18-Sep-20
Type	LWS	Shell No.	20F089	DISPATCH TO	SSE/C&W/INDB/WD	FUR.NO. DDG-541

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-RESISTOFLEX LTD
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 1101/1102

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-OMAX AUTO 89
		Part NPP END	M/S-OMAX AUTO 89
		Complete	M/S-OMAX AUTO 89
2	Lav. side wall	M/S-MIDAS GUJRAT	LAV.1 LAV.2
		M/S-MIDAS GUJRAT	LAV.3 LAV.4
3	Side wall	LH SIDE	MCFRBL-CONT.V4U 6
		RH SIDE	MCFRBL-CONT.V4U 6
4	End wall	PP END	M/S-RAIL TECH KXH
		NPP END	M/S-RAIL TECH KXH
5	Roof	MCFRBL-CONT.	38
6	Centre Buffer Coupler	M/S-FRONTIER	PP END 282P1 NPP END 186P2

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	GSI	M/S-GSI WOW (S&A)	97/96	22-Aug-20
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता  
गुणवत्ता विभाग  
रेडिओका, 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/2020-21/489

RLY	W	R	-	Coach No.	2	0	4	8	2	6	/	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	8	9	FUR .NO	DDG-541
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#### 9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	200810				200809			
Bogie Type	LWS				LWS			
Frame no.	ECBT-749				ECBT-748			
Bolster no.	SHIVALIKA FASTNERS-257				SHIVALIKA FASTNERS-234			
Axle No	20Y - 7897 RWF		20 Y- 7878 RWF		20 Y- 7840 RWF		20 Y - 6301 RWF	
Wheel Dia	917.60	917.58	917.59	917.53	917.59	917.49	917.72	917.4866
Wheel Disc No	TZ-08-19 74891-9RK9	TZ-12-19 96415-9VF2	TZ-07-19 63831-9RR8	TZ-11-19 80902-9VE2	TZ-12-19 91989-9WG3	TZ-11-19 88043-9W10	TZ-11-19 84800-9VC7	TZ-12-19 91986-9WG3
R.B. Nos.	12-19 38928	01-20 400891	12-19 37924	01-20 400994	12-19 39186	12-19 39811	12-19 38369	11-19 42999
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.	RESISTRO FLEX DYNAMICS PVT.LTD SR.NO.05-20 14264	RESISTRO FLEX DYNAMICS PVT.LTD SR.NO.05-20 13998	RESISTRO FLEX DYNAMICS PVT.LTD SR.NO.05-20 14248	RESISTRO FLEX DYNAMICS PVT.LTD SR.NO.05-20 13861

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

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	293667,293677	295004,294980
2.	Primary outer Spring	CMAFJ	05-20 1100(136,194,302,120)	05-20 1100(128,117,213,206)
3.	Primary Inner Spring	CMAFJ	05-20 1101-(166,168,165,170)	05-20 1101-(175,174,172,171)
4.	Primary Damper	IAI	01-20 (298642,299447,300336,298469)	01-20 (299619,301024,300063,300477)
5.	Secondary Damper	IAI	01-20 (302071,302100)	01-20 (302035,302091)
6.	Lateral Damper	GB EQUIPMENT	05-20 01796	05-20 02103
7.	Brake Cylinder	KNORR	C(9563,8074,8065,9561)-K-29	C(9568,8070,8072,9565)-K-29
8.	Brake Caliper	KNORR	C(5141,5228,5227,5143)-29	C(5139,5230,5232,5148)-29
9.	Brake Disc	KBI	24229056 0024-28/20,24229056 0023-28/20 24229053 0072-28/20,24229054 0049-28/20	24229056 0005-28/20,24229056 0027-28/20 24229055 0065-28/20,24229055 0066-28/20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	(SF)SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNOOR	22-20 C-5402,23-20 C 5635	21-20 C 5465,21-20 C 5364
17.	Check Valve	KNORR	03-20 24698	03-2020 24661
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA /GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	KUMAR	D1519,N303,D2514,D2591	N3432,N8058,N0577,KU.
22.	Control Arm Lower	KUMAR	D3820,D3806,D3840,D3392	D3813,D2503,D3804,D2292
23.	Phonic Wheel	KBI	K 05-20	K 06-20

Signature of SSE/Bogie/QC





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				FUR.NO.	DDG-541

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	5895 28/20
2	Distribution valve	M/S- KBI	2020A10477
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	9266/29,9292/29
5	Foot Step	M/S-FABRICON KOLKATA	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-GREEN PLY LKO	
8	PVC	M/S-PREMIER POLY FILM	
9	Lavatory inlay	M/S-SEEMA BHOPAL	
10	UIC Vestibule (PPE)	M/S-ELASTOMER MUMBAI	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER MUMBAI	
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 GLASS VADODARA	
15	Emergency Window	M/S-SHATABDI SAFTEY GLASS VADODARA	
16	Lavatory/hopper Window	M/S-BALAJI LTD DELHI	
17	Roof Ceiling	M/S-MILTON AHMEDABAD	
18	Door way /gang way ceiling	M/S-MILTON AHMEDABAD	
19	Body Side Doors 2,3,4,5	M/S-SVARN INFRATEL	
	Body Side Doors 1,6	M/S-GOLD PLUS CDG	
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-RAIL FAB KXH	
25	Bib cock/controlled discharge tap	M/s-AGMECO	
26	Lavatory Doors	M/S-JVR LDH	
27	Fire Extinguisher	M/S-AMTEX DELHI	17293/17597
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	NIL	
33	RFID	NIL	

*Deema*  
10/11/2020

SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग  
रेलवे कारखाना, रायबरेली (लाजपतगंज)





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Type	LWS	Shell No.	20F089	DISPATCH TO	SSE/C&W/INDB/WD
				FUR.NO.	DDG-541

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:

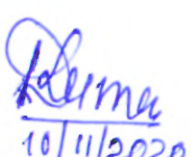
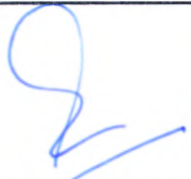
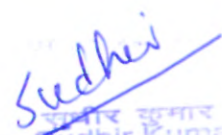
S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30months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

 10/11/2020		
SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy. COM/MCF/RBL

चरि०अनु० अभियंता  
गुणवत्ता विभाग  
रे०डि०का०, रायबरेली (लालगंज)

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

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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.

TYPE COACH	LWS/DDG	SHELL/COACH NO	204826/C
RAILWAY	WR	ELECT. FIT DATE	12-09-2020
		MCF EUR. NO.	DDG -541
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  
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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>2020065585</b> HT Panel: <b>2020076502</b>	EDTS 333, Rev'01'.Am-1	<b>01 SET</b>
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: <b>VIMAL</b> Sr no.: <b>VTC 3089 LHB - 3883</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.	<b>OK</b>
04.	Provision of wire rope assembly for Transformer.	As per EDML-152, Rev.-Nil.	<b>OK</b>
06.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: <b>WAVES</b> Sr. no.: <b>W4K5G201849</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*  
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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC GS COACHES  
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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>SARIA</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 :KNORR Sr no : 0119453217	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

