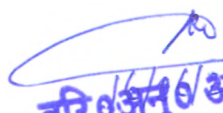
		Modern Coach Factory Raebareli				DOC NO.: MCF/RBL/QMF 8002	
		आधुनिक रेल डिब्बा कारखाना, रायबरेली				REV NO: 01	
						DATE: 17.04.2018	
ROLLING STOCK CERTIFICATE							
		Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21				/1293	
RLY	WR	COACH NO	215663/C			DATE OF DISPATCH	19-Mar-21
Type	LWSCN1	Shell No.	20G239	DISPATCH TO	Sr.DME/C&W/MMCT	FUR.NO.	LSCN-1866
1. Railway Board's Order No. 2020/M(C)/ 142/2, DATED- 27.01.2021 2. Tare Weight of Coach : 41.24 Tonnes 3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL 4. Special feature: A 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	1100/1098
6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM		MAKE/SUPPLIER		SERIAL NO		
1	Under frame	Front Part	PP END	M/S-INDIRA	21/175		
			NPP END	M/S-INDIRA	21/175		
		Complete	M/S-INDIRA	21/175			
2	Lav. side wall	PP END	M/S-MIDAS GUJRAT	LAV.1	-----	LAV.2	-----
		NPP END	M/S-MIDAS GUJRAT	LAV.4	-----	LAV.3	-----
3	Side wall	LH SIDE	M/S-ECBT	254			
		RH SIDE	M/S-ECBT	254			
4	End wall	PP END	M/S-KANSAL MOHALI	-----			
		NPP END	M/S-KANSAL MOHALI	-----			
5	Roof	MCF/RBL-CONT.		251			
6	Centre Buffer Coupler	M/S-FRONTIETR		PP /NPP	211/P2,120/P1		
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.	7 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	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF	
		OF PAINT		(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION	
1	Paint	P.U	ADVANCE	M/S-ADVANCE	90/89	28-Feb-21	
2	Insulation	Satisfactory					

  
 वरिष्ठ अनुष्ठानिक अभियंता  
 SSE/QC/MCF/RBL  
 रायबरेली, रायबरेली जिला





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/2020-21/1293

RLY	W	R	-	Coach No.	2	1	5	6	6	3	/	C	-	DATE OF DISPATCH	1	9	0	3	2	0	2	1
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	Sr.DME/C&W/MMCT	Type	L	W	S	C	N	1	Shell No.	2	0	G	2	3	9	FUR .NO	LSCN-1866
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## 8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202753				202754			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX-407				SIMPLEX-402			
Bolster no.	MCF/RBL-3029				APEX-392			
Axle No	21C - 4525 RWF		20 B - 8899 RWF		21 C - 3771 RWF		21 C - 3885 RWF	
Wheel Dia	917.539	917.544	917.51	917.55	917.50	917.50	917.561	917.566
Wheel Disc No	TZ 09-20 28771-OTD1	TZ 09-20 28772-0SE5	TZ 09-20 29243-0TE2	TZ 09-20 28770-0SE5	TZ 09-20 29249-0TE2	TZ 09-20 28661-OTD9	TZ 09-20 28133-0RE6	TZ 09-20 32786-0SE1
R.B. Nos.	06-20 412968	06-20 411671	06-20 412913	06-20 411704	06-20 412659	06-20 411980	06-20 412773	08-20 424537
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

## 9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMAFJ08-20 5101-116	CMGBD02-20 F08- 835-123	CMAFJ08-20 5101-114	CMGBD02-20 F08- 835-129	CMGBD08-20 5101-117	CMGBD02-20 F08-828-112	CMAFJ08-20 5101- 113	CMGBD02-20 F08- 828-22
Compressed Ht. at Tested Load	516	470	515	471	516	472	516	470
Alignment deviation (mm)	10	17	10	17	5	21	5	21

## 10. TRACEABILITY 90F BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	301402,301591	301442,301365
2.	Primary outer Spring	CMAFJ	08-20 1100 (4,61,55,2)	08-20 1100 (93,202,148,161)
3.	Primary Inner Spring	CMAFJ	08-20 1101--(154,238,220,223)	08-20 1101--(150,240,148,152)
4.	Primary Damper	IAI	02-20-(309284,320587,321208,310198)	02-20-(309148,309195,321366,309434)
5.	Secondary Damper	IAI	06-20-(327119,327131)	06-20-(327239,326521)
6.	Lateral Damper	KONI	03-19 00338	03-19 00527
7.	Brake Cylinder	FAV	A20-036,B21-094,B21-196,K20-372	H19-(267,116),B21(197,019)
8.	Brake Caliper	FAV	B21-(333,331,507,510)B	B21-(317,316,511,513)B
9.	Brake Disc	KBI	24241009 0020-46/20,24241009 0021-46/20 24241009 0004-46/20,24241009 0003-46/20	24241012 0048-47/20,24241013 0042-47/20 24241014 0080-48/20,24241014 0079-48/20
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	AR/BASANT		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	PRAG		
18.	Anti roll bar Make	RF		
19.	Roll Link make	EMSON/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SFL	H(80,48,43,129)	H(3,292,197,019)
22.	Control Arm Lower	SFL	H(333,331,507,510)B	B21(317,316,511,513)B
23.	Phonic Wheel	ESCORT/KBI		K 01-21

Signature of SSE/Bogie/QC





Modern Coach Factory Raebareli  
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DOC NO.: MCF/RBL/QMF 8002  
REV NO: 01  
DATE: 17.04.2018

ROLLING STOCK CERTIFICATE  
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21

RLY	WR	COACH NO	215663/C		DATE OF DISPATCH		19-Mar-21
Type	LWSCN1	Shell No.	20G239	DISPATCH TO	Sr.DME/C&W/MMCT	FUR.NO.	LSCN-1866

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELEY	B21081B
2	Distribution valve	M/S-FAIVELEY	B215585B
3	Pull box	M/S-KBI	
4	FIBA	NIL	NIL
5	Foot Step	M/s- FABRICON KOLKATA	
6	Decoupling arrangement	M/s-PULSER KOLKATA	
7	Floor board	M/s-SHREE RAM PNL	
8	PVC	M/s-RESPONSIVE INDS DELHI	
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- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/S-SHATABDI VADODARA	
15	Emergency Window	M/S-BIKRON GZB	
16	Lavatory/hopper Window	M/s-AIKON HP	
17	Side panel	M/s-HFGW VADODARA	
18	Roof Ceiling	M/s-A.B COMPOSITE	
19	Door way Ceiling	M/s-A.B COMPOSITE	
20	Body Side Doors	M/s-JVR LDH(1,3)+SUKATA (2,4)	
21	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
22	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
23	Bio Tank	M/S-RAIL FAB-02 NOS+JSL LIFE-02 NOS	
24	Presurized Flushing(Elect.pneumatic)	M/S-AIR FLOW	
25	Auxiliary Water Tank	M/S-SHIVALIK FAST MOHALI	
26	Under Slung Water Tank ( 2X685L)	M/S-OASIS	
27	Under Slung Water Tank (1x685 L)	M/S-SHIVALIK FAST MOHALI	
28	Health Faucet	M/S-KAPCO VALVES JUC	
29	Lotah Filler Tap	M/S-KAPCO VALVES JUC	
30	Controlled discharge tap	M/S-AGMECO LTD U.K	
31	Lavatory Doors	M/S-JVR LDH	
32	Seat & Berth	M/S-DURABLE LKO	
33	Ventury grill	NIL	
34	RFID	NIL	

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SSE/QC/MCF/RBL

70 दिनांक 17.04.2018



Modern Coach Factory, Raichareli





# ADVANCE PAINTS

CORROSION PROTECTION PROFESSIONALS

## WARRANTY CERTIFICATE

To,  
Dy. CME/Paint  
Modern Coach Factory,  
Lalganj, Raebareli-229120

Date:- 17.03.21

Sub- Performance Warranty Certificate.

Ref No- PO No.- 06190054101431 dtd. 20.10.2020

Name of Work- Supply and Application of PU Paint for LHB Rajdhani coaches.Qty 130 Set.

Dear Sir,

With Reference to the above, we do hereby confirm the warranty for three years from the date of application of the delivered below mention coaches vide your above referred purchase order after application and due inspection at your end.

SL. No.	Shell No.	Furnishing No.	Coach No.	Railway No.	Date of Completion
01	2WSCN 205239	LSCN 1866	215663	WL	28/02/21

The Warranty is applicable from the date of dispatch against the below mentioned defects as per RDSO specification no. M&C/PCN/100/2018.

- Gloss level value of applied paint initial 85 unit (on the date of painting) and minimum 80%, 70% & 60% of initial gloss after one year, two year and three years respectively from the date of application.
- Decolourization of paint film.
- Cracking of paint film.
- Peeling of paint film.
- Blistering of the paint film.

Thanking you

Yours Faithfully,

**For Advance Paints Pvt. Ltd.**

  
**Authorized Signatory**  
Authorized Signatory

## ADVANCE PAINTS PVT. LTD.

Advance House, Plot No. A, Ark Industrial Compound, Makwana Road, Marol Naka, Andheri (East) Mumbai 400 059, India  
T: +91 22 28590162/63/64 \* F: +91 22 2852 8826 \* govtdept@advancepaints.com \* www.advancepaints.com

**A GALIAKOTWALA GROUP COMPANY**





Modern Coach Factory Raebareli  
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020


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## FOR ELECTRICAL ITEMS

## ROLLING STOCK CERTIFICATE OF LHB EOG NON AC SCN COACH.

## ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC SCN COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC SCN COACH.						
TYPE COACH		LWSCN		SHELL/COACH NO		215663/C
RAILWAY		WR	ELECT. FIT DATE	18-03-2021	MCF EUR. NO.	LSCN-1866
Sr. no.	Description of tests					Remarks
1.	PUMP EQUIPMENTS					OK
2.	LIGHTS, NL,LAP CHARGING SOCKETS					OK
3.	WORKING OF ACCIDENTAL,EMERGENCY LIGHTS.					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 SCN COACHES


Sr. no.	Description	Drg./Spec no.	Quantity per Coach
01.	Fitment of Switch board cabinet.(set of panel) Make/Sr.no.: <b>HIND</b> On Board: <b>H355.20F.0892</b> HT Panel: <b>H355.20E.0792</b>	EDTS 355, Rev`01'.Am-3	<b>01 SET</b>
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: <b>VIMAL</b> Sr no.: <b>VTC 3089 LHB 4311</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 Pump equipment with pump box. Make: <b>KIND</b> Sr no : <b>KIND/ASY/0092</b> Pump 1: <b>19060383</b> Pump 2: <b>19060384</b>	As per spec no. EDTS186,REV-A,AM-2	<b>01 SET</b>
05.	Provision & Mounting of Pump controller. Make: <b>HIND</b> SL.no.: <b>20/03/098</b>	As per Spec. EDTS186 Rev-a Am-2, &drg no. CC71328 & LW70020	<b>01</b>
06.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: <b>SIGNOTRON</b> Sr. no.: <b>08201801</b>	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	<b>01</b>
07.	Provision of Feeder Junction Box Make : <b>AECO</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>RSI</b>	As per LW 71001,Alt- H	<b>01</b>
10.	Battery fuse box -ve Make : <b>AECO</b>	As per LW 71002,Alt-I	<b>01</b>
11.	Provision of Battery boxes/ Cradles. Make: <b>PRADEEP TRASCORE</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 SET</b>

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








	<b>Modern Coach Factory Raebareli</b> <b>आधुनिकरेलडिब्बाकारखाना, रायबरेली</b>	DOC NO.: MCF/RBL/QEF/8001
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## ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

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>KAPSONS</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>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 .Type-B1. Drg. No. CC76453.	<b>26</b>
15.	Fitment of LED Light fittings for Night Light with berth indication Type-E (1 watt). Make: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1, ICF/STB-7-6-053. Type- E. Drg. No. CC76461	<b>10</b>
16.	Fitment of LED Light fittings for Lavatory Lights. 9 Watt. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 Type-D. Drg. No. LW76092.	<b>04</b>
17.	Fitment of LED Light fittings for PACIL. Make: <b>AGASTYA</b>	As per RDSO/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 Type-I. Drg. No. LW76098.	<b>02</b>
18.	Fitment of Accidental Emergency Light (AEL) Make: <b>INTEG</b>	As per RDSO/SPEC/AC/0180-2016, Rev-0 , Type-II.	<b>04</b>
19.	Provision of Cable binder	Drg. No. CC76120, Item - 1, 2, 3. 100mm, 200mm, 300mm respectively.	<b>OK</b>
20.	Provision of Cable Jacket System.	EDTS-138, Cor-2, Item-5, 7, 8, 9, 11.	<b>OK</b>

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







	<b>Modern Coach Factory Raebareli</b> <b>आधुनिकरेलडिब्बाकारखाना, रायबरेली</b>	DOC NO.: MCF/RBL/QEF/8001
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## ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
21.	Provision of Switch plate assembly along with mobile charging sockets. Make: <b>SALZER</b>	EDML-086, Rev-6, Am-1, Table-1, Item-1.	<b>10</b>
22.	Provision of Switch plate assembly along with mobile charging sockets. Make: <b>SALZER</b>	EDML-086, Rev-6, Am-1, Table-1, Item-2.	<b>10</b>
23.	Provision of Switch plate assembly along with mobile charging sockets. Make: <b>SALZER</b>	EDML-086, Rev-5, Am-1, Table-1, Item-3.	<b>20</b>
24.	Provision of High Capacity Inter – Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3ph, 50 Hz). Make:- 1.(NPP): <b>PRIME ELECT.</b> 2.(PP): <b>PRIME ELECT.</b>	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	<b>01 SET</b>
25.	Mounting of Inter Vehicle coupler	As per drg no.1.10113.0.74.000.001,Alt-B	<b>OK</b>
26.	Provision of Wheel Set Earthing equipment. Make:- NPP: <b>DARSHAN ENTERPRISES</b> PP: <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>01 SET</b>
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : <b>FAIVELEY</b> Sr no : <b>13145</b>	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	<b>01 SET</b>

<b>SSE/EL/QC</b> <b>वरिष्ठ अनुभाग अभियन्ता</b> <b>गुणवत्ता नियंत्रण</b> <b>आनरेडि०का० / लालगंज / रायबरेली</b> <b>S.S.E./Elect-QC/M.C.F./LLJ/RBL</b>	<b>AWM(ELECT.)/MCF/RBL</b> <b>SEE(P)/MCF/RBL</b> <b>स० कार्य प्रबन्धक / विद्युत</b> <b>आनरेडि०का० / रायबरेली</b> <b>A.W.M./Electrical/MCF/RBL</b>