

		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/2020-21/186							
RLY	CR	COACH NO	204283/C	DATE OF DISPATCH		24-Jul-20	
Type	LWSCN1	Shell No.	20G027	DISPATCH TO	SSE/STOCK/CR/BB	FUR.NO.	LSCN-1610
1. Railway Board's Order No. : 2020/M(C)/142/2, Dated- 24.06.2020							
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	1099/1100
6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1	Under frame	Front	PP END	M/S-SFPL			
		Part	NPP END	M/S-SFPL			
		Complete		MCFRBL-V4U-TECHIE	20G027		
2	Lav. side wall			M/S-INDIRA CHENNAI	LAV.1	LAV.2	
				M/S-INDIRA CHENNAI	LAV.4	LAV.3	
3	Side wall	LH SIDE		MCFRBL-V4U LKO	533		
		RH SIDE		MCFRBL-V4U LKO	533		
4	End wall	PP END		M/S-ECBT			
		NPP END		M/S-ECBT			
5	Roof			M/S-TI	97		
6	Centre Buffer Coupler			M/S-FRONTIER	PP	08P2	NPP 143P2
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 ² .	6 – 10 sec.	6 sec			
		Max. pressure in BC	3.0 ± 0.15 kg/cm ² .	3.0 kg/cm ²			
		All Brake are applied	OK	OK			
2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK			
3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /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	GSI	M/S-GSI(WOW)	77/94	4-Jul-20	
2	Insulation	Satisfactory					


 SSI/CC/MCF/RBL

वरि०अनु० अभियंता
 गुणवत्ता विभाग
 रे०डि०का०, रायबरेली (लाबगंज)



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/2020-21/186

RLY	C	R	Coach No.	2	0	4	2	8	3	/	C	DATE OF DISPATCH	2	4	0	7	2	0	2	0
DISPATCH	SSE/STOCK/CR/BB			Type	L	W	S	C	N	1	Shell No.	2	0	G	0	2	7	FUR NO	LSCN-1610	

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	200159				200160			
Bogie Type	FIAT				FIAT			
Frame no.	RBL/LS5-893 (MODIFIED)				RBL/LS5-843 (MODIFIED)			
Bolster no.	AMIT-50				AMIT-47			
Axle No	20Y - 3796	RWF	20Y - 3354	RWF	20Y - 1641	RWF	20Y - 3268	RWF
Wheel Dia	917.479	917.325	917.45	917.35	917.44	917.37	917.528	917.443
Wheel Disc No	DP-19 697-60844	DP-19 697-60798	DP-19 697-23622	DP-19 697-23503	DP-19 697-60780	DP-19 697-60745	DP-19 697-60785	DP-19 697-60763
R.B. Nos.	12-19 45006	12-19 45075	12-19 38023	12-19 39572	12-19 38099	12-19 39756	12-19 38329	12-19 38929
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	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMGBD10-19-F09-750-194	CMFSK11-19-5112-080-209	CMGBD10-19-F09-750-198	CMFSK11-19-5112-080-419	CMFSK12-19-F08-1575-44	CMFSK04-19-F08-222-491	CMFSK12-19-F08-1515-44	CMFSK12-19-5112-080-304
Compressed Ht. at Tested Load	514	472	514	470.5	512.5	472	512	470
Alignment deviation (mm)	17	1	17	11	9	7	9	7

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	291471,291444	291260,292422
2.	Primary outer Spring	CMAFJ	03-20 1100-(377,380,219,259)	03-20 1100-(371,413,210,379)
3.	Primary Inner Spring	CMAFJ	03-20 1101-(485,444,484,457)	03-20 1101-(481,107,316,479)
4.	Primary Damper	IAI	01-20 (298758,300395,300267,298729)	01-20 (298503,298722,298584,299406)
5.	Secondary Damper	IAI	01-20 (295893,295802)	01-20 (302886,295720)
6.	Lateral Damper	KONI	03-19 02162	03-19 02125
7.	Brake Cylinder	KBI	C (5938,4595,4608,5941)-K-29	C (4870,3442,3286,4474)-K-29
8.	Brake Caliper	KBI	B-(2217,2276,2277,2216)-29	B-(1147,1158,0990,0804)-29
9.	Brake Disc	KBI	24226786 0052-01/02,24226785 0031-25/20 24226786 0045-01/02,24226786 0046-01/02	24226784 0051-01/02,24226784 0052-01/02 24226785 0001-01/02,24226784 0080-01/02
10.	Ball Joint Control Arm	GMT/PRAG/ARYAN	GMT/PRAG	PRAG/ARYAN
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	SF/EMSON		
19.	Roll Link make	EMSON/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	IRPL/RVE	2008C20,2012C25,2008C20,RVE-280120-5	RVE-090120-1,120120-2,140120-1,110120-1
22.	Control Arm Lower	IRPL/RVE	1919G79,RVE-080120-1,RVE,080120-1	IRPL-2012B20,RVE-090120-2,090120-2,090120-2
23.	Phonic Wheel	KBI	K 05-20	K 05-20

Signature of SSE/Bogie/QC



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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/186

RLY	CR	COACH NO	204283/C	DATE OF DISPATCH	24-Jul-20
Type	LWSCN1	Shell No.	20G027	DISPATCH TO	SSE/STOCK/CR/BB
				FUR.NO.	LSCN-1610

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	4794 03/20
2	Distribution valve	M/s-KBI	2020A10218
3	Pull box	M/s-KBI	
4	FIBA	NIL	
5	Foot Step	M/S- SUPER SPARKS LTD FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-SHREE RAM PNL	
8	PVC	M/S-RESPONSIVE INDS.	
9	Lavatory inlay	M/S-SEEMA 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- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/S-EXCEL IR KOLKATA	
15	Emergency Window	M/S-FP KOLKATA	
16	Lavatory/hopper Window	M/S-BEI PUNJAB	
17	Side panel	M/S-HF VADODARA	
18	Roof Ceiling	M/S-A.B. COMPOSITE	
19	Door way Ceiling	M/S-ZAAM TOOLS RBL	
20	Body Side Doors	M/s- JBM FARIDABAD	
21	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
22	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
23	Bio Tank	M/s-RAIL FAB KXH	
24	Presurized Flushing(Elect.pneumatic)	M/s - IMI	
25	Auxiliary Water Tank	M/s- AMIT ENGG.MOHALI	
26	Under Slung Water Tank (2X685L)	M/s- SHIVALIK FAST MOHALI	
27	Under Slung Water Tank (1x685 L)	M/s- AMIT ENGG.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 PVT LTD	
31	Lavatory Doors	M/S-JVR INDS	
32	Seat & Berth	M/S-ADVANCED SILICON PALWAL	
33	Ventury grill	NIL	
34	RFID	NIL	


SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/186

RLY	CR	COACH NO	204283/C	DATE OF DISPATCH	24-Jul-20
Type	LWSCN1	Shell No.	20G027	DISPATCH TO	SSE/STOCK/CR/BB
				FUR.NO.	LSCN-1610

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. Chief Quality Manager

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)

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

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: 01

DATE: 29.06.2020

PAGE 1 OF 4

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG NON AC COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC COACH.						
TYPE COACH		LWSCN		SHELL/COACH NO		204283/C
RAILWAY		CR	ELECT. FIT DATE	22-07-2020	MCF FUR. NO.	LSCN-1610
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





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REV NO: 01

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PAGE 2 OF 4

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.: AMIT ENGG. On Board: AE/USBC/1808 HT Panel: AE/USBC/1799	EDTS 355, Rev'01'.Am-3	01 SET
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: VIMAL Sr no.: VTC 3089 LHB 3436	RDSO/PE/SPEC/TL 0158, 2010, Rev'0',Ty I.	01
03.	Mounting of 09KVA TFR.	As per drg no 1.10113.0.76.300.001,Alt -B.	OK
04.	Provision of Pump equipment with pump box. Make: KIND Sr no : 0012 Pump 1: 20050093 Pump 2: 20050094	As per spec no. EDTS186,REV-A,AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: KIND SL.no.: 20050052	As per Spec. EDTS186 Rev-a Am-2, & drg no. CC71328 & LW70020	01
06.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: IC Sr. no.: 03/20/0020	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : MV ELECTRO	EDTS-328 REV-C,AM-4,Type- II,COR-2	01 SET
08.	Provision of IVC dummy Socket assembly.	As per Drg. No. LW71302,Alt-nil	01 SET
09.	Battery fuse box +ve Make : RICHMOND	As per LW 71001,Alt- H	01
10.	Battery fuse box -ve Make : RICHMOND	As per LW 71002,Alt-I	01
11.	Provision of Battery boxes/ Cradles. Make: HITECH	As per Drg. No. 110113.0.76.700.005 W/O item 5,22,23,26 & 27,Alt-C or Latest.	01
12.	Provision of batteries Type: 110 V, 120 AH VRLA SMF Battery Set. Make: AMARA RAJA Lug Date: 12/19	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET

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REV NO: 01

DATE: 29.06.2020

PAGE 3 OF 4

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: KAPSONS	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.	30
14.	Fitment of LED Light fittings for Cabin, Doorway and Gangway area. 9 watt. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1 .Type-B1.Drg. No. CC76453.	26
15.	Fitment of LED Light fittings for Night Light with berth indication Type-E (1 watt). Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1, ICF/STB-7-6-053.Type- E. Drg. No. CC76461	10
16.	Fitment of LED Light fittings for Lavatory Lights. 9 Watt. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-D. Drg. No. LW76092.	04
17.	Fitment of LED Light fittings for PACIL. Make: KAVERI	As per RDSO/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-I. Drg. No. LW76098.	02
18.	Fitment of Accidental Emergency Light (AEL) Make: DR AUTO	As per RDSO/SPEC/AC/0180-2016,Rev-0 ,Type-II.	04
19.	Provision of Cable binder	Drg. No. CC76120,Item - 1,2,3.100mm,200mm,300mm respectively.	OK
20.	Provision of Cable Jacket System.	EDTS-138,Cor-2,Item-5,7,8,9,11.	OK

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PAGE 4 OF 4

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: SALZER	EDML-086, Rev-6, Am-1, Table-1, Item-1.	10
22.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	EDML-086, Rev-6, Am-1, Table-1, Item-2.	10
23.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	EDML-086, Rev-5, Am-1, Table-1, Item-3.	20
24.	Provision of High Capacity Inter – Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3 ph, 50 Hz). Make:- 1.(NPP): S.INTERNATIONALS 2.(PP): S.INTERNATIONALS	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	01 SET
25.	Mounting of Inter Vehicle coupler	As per drg no.1.10113.0.74.000.001,Alt-B	OK
26.	Provision of Wheel Set Earthing equipment. Make:- NPP: DARSHAN ENTERPRISES PP: DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	01 SET
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0120054109	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 SET

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

