



Modern Coach Factory Raebareilly

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/722

RLY	NFR	COACH NO	205159/C	DATE OF DISPATCH	5-Nov-20
Type	LWSCN1	Shell No.	20G207	DISPATCH TO	SSE/C&W/KYQ/RNY
				FUR.NO.	LSCN-1734

1. Railway Board's Order No. : 2020/M(C)/142/2, Dated-21.08.2020
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 1097/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front Part	PP END M/S-NE
		NPP END	M/S-NE
	Complete	MCFRBL-AIRCON	20G207
2	Lav. side wall	M/S-ECBT CDG	LAV.1
		M/S-ECBT CDG	LAV.4
3	Side wall	LH SIDE	M/S-DTL PUNE
		RH SIDE	M/S-DTL PUNE
4	End wall	PP END	M/S-OMAX REWARI
		NPP END	M/S-OMAX REWARI
5	Roof	MCFRBL-CONT.	106
6	Centre Buffer Coupler	M/S-ESCORTS	PP 4402 NPP 4348

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.	8 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 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	4-Sep-20
2	Insulation			Satisfactory		

Rama
16/01/2021
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
मुख्य निदेशक
रेलवे डिब्बा कारखाना, रायबरेली (लाजपत)



MCF/RBL



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/-722

RLY	N	F	R	Coach No.	2	0	5	1	5	9	/	C	-	DATE OF DISPATCH	0	5	1	1	2	0	2	0
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	SSE/C&W/KYQ/RNY	Type	L	W	S	C	N	1	Shell No.	2	0	G	2	0	7	FUR .NO	LSCN - 1734
----------	-----------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---------	-------------

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	201501				201502			
Bogie Type	FIAT				FIAT			
Frame no.	RBL- 2255				RBL- 2288			
Bolster no.	ULTRA ENGG.- 162				TACPL -08			
Axle No	20 Z - 8729 RWF	20 Z - 0092 RWF	20 Z - 9723 RWF	20 Z - 9714 RWF				
Wheel Dia	917.546	917.491	917.55	917.428	917.61	917.43	917.499	917.485
Wheel Disc No	TZ 02-19 26450-9MJ1	TZ 02-19 21677-8XH2	TZ 02-19 21142-8X11	TZ 11-19 88254-9WJ2	TZ 07-18 27131-9QS9	TZ 02-19 23457-9MS9	TZ 02-19 26691-9ML5	TZ 02-19 26690-9ML5
R.B. Nos.	12-19 39907	12-19 36980	12-19 35621	12-19 45934	12-19 36158	12-19 45914	01-20 405387	01-20 405259
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- 06-20 0777	TAYAL & CO. Sr. NO- 06-20 0718	TAYAL & CO. Sr. NO- 06-20 0732	TAYAL & CO. Sr. NO- 06-20 0708

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	294756,294062	294695,294594
2.	Primary outer Spring	CMFSK	10-19 1100-110(817,584,1121,499)	10-19 1100-114(568,532,493,580)
3.	Primary Inner Spring	CMFSK	10-19 1101-110(608,165,635,1495)	10-19 1101-101(266,268,267,266)
4.	Primary Damper	IAI	01-20 (300434,321344,300951,309156)	01-20 (297162,297313,197218,297141)
5.	Secondary Damper	IAI	06-20 (327268,326560)	06-20 (326887,326629)
6.	Lateral Damper	IAI	05-19 313808	05-20 0313635
7.	Brake Cylinder	KBI	C(7994,6597,6595,7974)K29	C(7769,6404,6370,7785)K29
8.	Brake Caliper	KBI	C(3933,3981,3982,3931)-29	C(3726,3830,3829,3723)-29
9.	Brake Disc	FAV	03-20 (581,580,246,247)-D133561-300	03-20 (579,156,605,8928) -D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JI/TAJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1912,1912	1912,1912
17.	Check Valve	ESCORT	1912	1012
18.	Anti roll bar Make	SARITA/EMSON		
19.	Roll Link make	SF(SARITA)/GMT RF/GMT		
20.	Fork make	SF(SARITA)/RNG		
21.	Control Arm Upper	CC/ SF(SARITA)	20A466,20B81,20B262,KUMAR-D5296	440,872,647,960
22.	Control Arm Lower	CC/ SF(SARITA)	20B90,20B713, SF(SARITA)-372,KUMAR-N5217	449,410,456,182
23.	Phonic Wheel	KBI	01-20 640209	01-20

Signature of SSE/Bogie/QC



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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/722

RLY	NFR	COACH NO	205159/C	DATE OF DISPATCH	5-Nov-20
Type	LWSCN1	Shell No.	20G207	DISPATCH TO	SSE/C&W/KYQ/RNY
				FUR.NO.	LSCN-1734

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	6106 34/20
2	Distribution valve	M/s-KBI	2020H12287
3	Pull box	M/s-KBI	
4	FIBA	M/s-FAIVELEY	H20040,F20104
5	Foot Step	M/S- FABRICON KOLKATA	
6	Decoupling arrangement	M/S-PULSAR 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 SAFTEY GLASS VADODARA	
15	Emergency Window	M/S-SHATABDI SAFTEY GLASS VADODARA	
16	Lavatory/hopper Window	M/S-BEI INDS PUNJAB	
17	Side panel	M/S-HFGW VADODARA	
18	Roof Ceiling	M/S-A.B COMPOSITE	
19	Door way Ceiling	M/S-ZAAM TOOLS RBL	
20	Body Side Doors 1,3	M/s-JBM FARIDABAD	
	Body Side Doors 2,4	M/s-JVR LDH	
21	Vestibule Door(PPE)	M/s-KALISI LDH	
22	Vestibule Door(NPPE)	M/s-KALISI LDH	
23	Bio Tank	M/s-JSL LIFESTYLE	
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-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 LTD	
31	Lavatory Doors	M/S-JR JUC(1,3)+EEPL LDH(2,4)	
32	Seat & Berth	M/S-OVPL SILICON MUMBAI	
33	Ventury grill	NIL	
34	RFID	NIL	

Rama
16/10/2021
SSE/QC/MCF/RBL

चरि 000000 अधिकृत

16/10/2021
16/10/2021





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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/722

RLY	NFR	COACH NO	205159/C	DATE OF DISPATCH	5-Nov-20
Type	LWSCN1	Shell No.	20G207	DISPATCH TO	SSE/C&W/KYQ/RNY
				FUR.NO.	LSCN-1734

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

परिष्कारित
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली

किरणपाल
सहायक यांत्रिक इंजीनियर
Asst. Mechanical Engineer
आ. रे. डि. का. रायबरेली
MCF, RBL

उप मुख्य गुणवत्ता प्रबंधक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

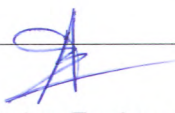
PAGE 1 OF 4

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG NON AC 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		205159/C
RAILWAY		NFR	ELECT. FIT DATE	04-11-2020	MCF EUR. NO.	LSCN-1734
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
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

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.: SSK On Board: 20/06/065 HT Panel: 20/06/054	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 3564	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: DR AUTO Sr no : 20/08/0171 Pump 1: 4876 Pump 2: 4872	As per spec no. EDTS186.REV-A,AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: DR AUTO SL.no.: 20/8/0118	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: SYDLER Sr. no.: 08200033	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : AECO	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 : INDORAIL	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: 11/19	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



MCF/RBL



Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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: VIDISHA ELECT.	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: RT VISION	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: INTEG	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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareilly
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

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:SSK	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, 3ph, 50 Hz). Make:- 1.(NPP):MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	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: PRIME ELECT. PP: PRIME ELECT.	EDTS101,REV-C,AM-1	01 SET
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0119423042	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 SET

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

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आधुनिकरेलडिब्बाकारखाना / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

सं कार्य प्रबन्धक / विद्युत
आधुनिकरेलडिब्बाकारखाना / रायबरेली
A.W.M./Electrical/MCF/RBL





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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/755

RLY	NFR	COACH NO	205261/C	DATE OF DISPATCH	25-Nov-20
Type	LWSCN1	Shell No.	20G185	DISPATCH TO	SSE/C&W/GHY
				FUR.NO.	LSCN-1692

1. Railway Board's Order No. : 2020/M(C)/142/2, Dated-21.08.2020
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 1100/1097

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front Part	PP END M/S-AMIT ENGG
		NPP END	M/S-OMAX AUTO
	Complete	MCFRBL CONT.-AIRCON	20G185
2	Lav. side wall	M/S-ATHANCY ALD	LAV.1
		M/S-ATHANCY ALD	LAV.2
			LAV.3
			LAV.4
3	Side wall	LH SIDE	MCFRBL CONT.-V4U
		RH SIDE	MCFRBL CONT.-V4U
4	End wall	PP END	M/S-RAIL TECH KXH
		NPP END	M/S-RAIL TECH KXH
5	Roof	MCFRBL CONT.	74
6	Centre Buffer Coupler	M/S-FRONTIER	PP 23P2 NPP 178P1

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.	8 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 (S&A)	92/91	21-Aug-20
2	Insulation			Satisfactory		

Reema
16/01/2021
SSE/QC/MCF/RBL

परिष्कारित
गुणवत्ता
निर्माण





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/-755

RLY	N	F	R	Coach No.	2	0	5	2	6	1	/	C	-	DATE OF DISPATCH	2	5	1	1	2	0	2	0
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	SSE/C&W/GHY	Type	L	W	S	C	N	1	Shell No.	2	0	G	1	8	5	FUR NO	LSCN - 1692
----------	-------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	--------	-------------

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	201768				201767			
Bogie Type	FIAT				FIAT			
Frame no.	RBL- 2334				RBL- 2339			
Bolster no.	ULTRA ENGG.- 109				MCF/RBL-2600			
Axle No	20 A - 7561 RWF	20 A - 7549 RWF	20 A - 7616 RWF	20 A - 7627 RWF	20 A - 7561 RWF	20 A - 7549 RWF	20 A - 7616 RWF	20 A - 7627 RWF
Wheel Dia	917.41	917.38	917.47	917.38	917.43	917.57	917.40	917.38
Wheel Disc No	TZ 05-19 42279-9PJ3	TZ 02-19 32403-90E9	TZ 05-19 32403-90E9	TZ 05-19 43501-9PE1	TZ 01-20 81360-9WI2	TZ 01-20 43502-9PF1	TZ 03-19 32567-90D8	TZ 05-19 48733-9PH3
R.B. Nos.	01-20 405942	02-20 502115	02-20 501524	01-20 406320	01-20 404799	01-20 404417	02-20 502172	02-20 502034
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- 06-20 0488	TAYAL & CO. Sr. NO- 06-20 0496	TAYAL & CO. Sr. NO- 06-20 0684	TAYAL & CO. Sr. NO- 06-20 0657

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	304309,303817,	303850,304279
2.	Primary outer Spring	CMFSK	03-20 F07-190(474,531,947,574)	03-20 F07-190(565,980,552,560)
3.	Primary Inner Spring	CMFSK	03-20 F06-187 (1016,762,2176,2075)	03-20 F06-187 (2103,2130,422,1211)
4.	Primary Damper	GABRIEL	03-20 (554,556,558,549)	03-20 (554,556,558,549)
5.	Secondary Damper	GABRIEL	07-20 (2859,2834)	07-20 (2860,2862)
6.	Lateral Damper	IAI	03-20 313637	03-20 313374
7.	Brake Cylinder	KBI	D(1163,1162),C(9610,9618)K29	C(1137,9620,9615,1173)K29
8.	Brake Caliper	KBI	C(6581,6622,6624,6684)-29	C(6586,6625,6627,6587)-29
9.	Brake Disc	FAV	07-20 (1070,1069,997,998)-D133561-300	07-20 (343,342,3848,3769) -D133561-300
10.	Ball Joint Control Arm	ARYAN/BONY		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	RF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	ESCORT	20084675,20084506	20084563,20084651
17.	Check Valve	ESCORT	20088753	20088670
18.	Anti roll bar Make	SARITA		
19.	Roll Link make	RF/BONY		
20.	Fork make	SF(SARITA)		
21.	Control Arm Upper	CC	20G98,20B146,20A502,20G122	20G207,20G203,20A689,20G216
22.	Control Arm Lower	CC	20F106,20B448,20B249,20B94	20A446,20B33,20F48,20A464
23.	Phonic Wheel	KBI	07-20 640209	06-20 640209

Signature of SSE/Bogie/QC



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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/755

RLY	NFR	COACH NO	205261/C	DATE OF DISPATCH	25-Nov-20
Type	LWSCN1	Shell No.	20G185	DISPATCH TO	SSE/C&W/GHY
				FUR.NO.	LSCN-1692

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	6006 32/20
2	Distribution valve	M/s-KBI	2020H12198
3	Pull box	M/s-KBI	
4	FIBA	M/s-FAIVELEY	H20104,H20137
5	Foot Step	M/S- FABRICON KOLKATA	
6	Decoupling arrangement	M/S-PULSAR 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-SUNCREST KOLKATA	
11	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
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-AFG INDS KOLKATA	
15	Emergency Window	M/S-F.P KOLKATA	
16	Lavatory/hopper Window	M/S-BEI PUNJAB	
17	Side panel	M/S-HFGW VADODARA	
18	Roof Ceiling	M/S-A.B COMPOSITE	
19	Door way Ceiling	M/S-ZAAM TOOLS RBL	
20	Body Side Doors	M/s-SUKATA	
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-AIR FLOW	
25	Auxiliary Water Tank	M/s-SHIVALIK FAST. 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 LTD	
31	Lavatory Doors	M/S-JR JUC	
32	Seat & Berth	M/S-DURABLE POLYMER LKO	
33	Ventury grill	NIL	
34	RFID	NIL	

[Signature]
16/10/2021
SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०न०, रायबरेली (लातगंज)



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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/755

RLY	NFR	COACH NO	205261/C	DATE OF DISPATCH	25-Nov-20
Type	LWSCN1	Shell No.	20G185	DISPATCH TO	SSE/C&W/GHY
				FUR.NO.	LSCN-1692

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	REFERENCE &
			Frequency	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.

<i>Ruma</i> 16/01/2021 SSE/QC/MCF/RBL	<i>19.01.2021</i> SME/AME/QC/MCF/RBL सहायक यांत्रिक इंजीनियर आ. रे. डि. का. रायबरेली MCF, RBL	<i>19/1/2021</i> Dy. Chief Quality Manager उप मुख्य गुणवत्ता प्रबंधक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
---	---	--

वरिष्ठ अनु अभियंता
गुणवत्ता विभाग
#0डि0का0, रायबरेली (जालमंज)





Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, 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 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		205261/C
RAILWAY		NFR	ELECT. FIT DATE	19-11-2020	MCF EUR. NO.	LSCN-1692
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
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

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.: HIND On Board: H355.20F.0824 HT Panel: H355.20E.0725	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 3577	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: DR AUTO Sr no : 20/08/0146 Pump 1: 4956 Pump 2: 4957	As per spec no. EDTS186.REV-A.AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: DR AUTO SL.no.: 20/08/0311	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: SYDLER Sr. no.: 08200020	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : SYSTEMS & SERVICES POWER	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 : INDORAIL	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: 09/19	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





	Modern Coach Factory Raebareli आधुनिकरेलडिब्बाकारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 01
		DATE: 29.06.2020

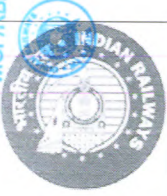
PAGE 3 OF 4

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: LIGHT ENGG.	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: DR AUTO	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: AGASTYA	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: INTEG	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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

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:SKS	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, 3ph, 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: PRIME ELECT. PP: PRIME ELECT.	EDTS101,REV-C,AM-1	01 SET
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0120114676	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 SET

 वरिष्ठ अनुभाग अभियन्ता S.S.E./Elect-QC आधुनिकरेलडिब्बाकारखाना / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 आयुक्त प्रबन्धक / विद्युत आधुनिकरेलडिब्बाकारखाना / रायबरेली A.W.M./Electrical/MCF/RBL
---	---

