



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/2019-20/1406

RLY	NFR	COACH NO	197733/C	DATE OF DISPATCH	7-Jan-20
Type	LWSCN1	Shell No.	97679	DISPATCH TO	Sr.DME/GHY
				FUR.NO.	LSCN-1418

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-21.11.19
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 1102/1097

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END M/s-AMIT ENGG.	1
	Front Part	NPP END M/s-NECHD	-
	Complete	MCFRBL-AIRCON	97679
2	Lav. side wall	M/s-RAIL FAB KXH	LAV.1
		M/s-RAIL FAB KXH	LAV.2
			LAV.3
3	Side wall	MCF/RBL(CONT. V4U)	383
	LH SIDE	MCF/RBL(CONT. V4U)	383
	RH SIDE		
4	End wall	PP END M/s-DTL PUNE	
		NPP END M/s-DTL PUNE	
5	Roof	MCFRBL-CONT.	223
6	Centre Buffer Coupler	M/s- ESCORTS	PP 2668 NPP 2683

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	AKZONOBEL	M/S-AKZONOBEL	76/94	11-01-20
2	Insulation			Satisfactory		

(Signature)
SSE/QC/MCF/RBL
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/2019-20/1406

RLY	N	F	R	Coach No.	1	9	7	7	3	3	/	C	-	DATE OF DISPATCH	0	7	0	1	2	0	2	0
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DISPATCH	Sr.DME/GHY	Type	L	W	S	C	N	1	Shell No.	9	7	6	7	9	FUR .NO	LSCN-1418
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192912				192911			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1960				VS-1951			
Bolster no.	RBL-2897				RBL-3317			
Axle No	19 S - 9784 RWF	19 S - 7816 RWF	19 P - 1721 RWF	19 P - 8954 RWF				
Wheel Dia	917.257	917.269	917.182	917.231	917.213	917.287	917.214	917.217
Wheel Disc No	TZ 06-19 68966-9RM5	TZ 06-19 59271-9PI6	TZ 06-19 61328-9Q26	TZ 06-19 68969-9RM5	TZ 06-19 60936-9QJ0	TZ 06-19 90935-9QJ9	TZ 06-19 54314-9QJ1	TZ 06-19 68900-9RM5
R.B. Nos.	11-19 43312	11-19 43841	11-19 43062	11-19 43250	11-19 42358	11-19 43674	11-19 43989	11-19 42500
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.	CMFSK10-19-5101-081-446	CMFSK11-19-5100-242-	CMFSK10-19-5101-081-384	CMFSK11-19-5100-080-458	CMFSK09-19-5101-081-93	CMFSK11-19-5100-066-352	CMFSK09-19-5101-081-469	CMFSK11-19-5100-061-491
Compressed Ht. at Tested Load	514	469.5	514	469.5	511.5	467	561	467.5
10Alignment deviation (mm)	8	12	7	11	13	5	11	8

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	17515,17521	17516,17518
2.	Primary outer Spring	CMFSK	10-19 1100-114 (903,851,974,86)	10-19 1100-114 (903,851,973,867)
3.	Primary Inner Spring	CMFSK	10-19 1101-101(98,975,446,41)	10-19 1101-101(908,975,446,411)
4.	Primary Damper	IAI	11-19 (281542,281542,281795,281758)	11-19 (281840,281864,281712,281737)
5.	Secondary Damper	GB	10-19 (03056,03096)	10-19 (03084,03082)
6.	Lateral Damper	IAI	05-19 251371	05-19 251004
7.	Brake Cylinder	ESCORT	52626,52456,52458,52642	53647,53724,53723,53735
8.	Brake Caliper	ESCORT	30465,31081,31020,30463	31825,31800,31799,31826
9.	Brake Disc	FAV	12-19(8617,8618,7338,7340)D133561-300	11-19(6452,6459),12-19(6450,6451)D133561-300
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	(SF)SARITA		
13.	Traction lever make	(SF)SARITA		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	KUMAR	0512,0814,0904,0815	0512,0814,0904,0815
22.	Control Arm Lower	KUMAR	D-9415,N-815,N918,D9948	D-9068,D0566,N9998,D0820
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Signature of SSE/Bogie/QC

गुणवत्ता विभाग
रेडिओ, रायबरेली (लागू)



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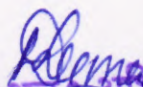
ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1406

RLY	NFR	COACH NO	197733/C		DATE OF DISPATCH	7-Jan-20
Type	LWSCN1	Shell No.	97679	DISPATCH TO	Sr.DME/GHY	FUR.NO. LSCN-1418

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-ESCORTS	2019070039
2	Distribution valve	M/s-ESCORTS	1907A039
3	Pull box	M/s-KBI	
4	FIBA	NA	
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-SHREE RAM PNL GOVINDGARH	
8	PVC	M/S-RESPONSIVE DELHI	
9	Lavatory inlay	M/S-SEEMA INDS BHOPAL	
10	UIC Vestibule (PPE)	M/S-SUNCREST INDS KOLKATA	
11	UIC Vestibule (NPPE)	M/S-SUNCREST INDS 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-EXCEL IR. KOLKATA	
15	Emergency Window	M/S-AJC INDS. KOLKATA	
16	Lavatory/hopper Window	M/S-SHATABDI VADODARA+VEDANSH RBL	
17	Side panel	M/S-WONDER LAMINATED KOLKATA	
18	Roof Ceiling	M/S-ACME INDIA NDLS	
19	Door way Ceiling	M/S-ZAAM TOOLS RBL	
20	Body Side Doors	M/s- JVR INDS .LDH	
21	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
22	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
23	Bio Tank 1,3	M/s-CEMCON	
	Bio Tank 2,4	M/s-UNIFAB	
24	Presurized Flushing(Elect.pneumatic)	M/s-IMI	
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 (1x450 L)	M/s-AMIT ENG.MOHALI	
28	Health Faucet	M/s-KAPCO VALES JALANDHAR	
29	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
30	Controlled discharge tap	M/s- AGMECO PVT LTD UK	
31	Lavatory Doors	M/S-JR INDS. JUC	
32	Seat & Berth	M/s- ADVANCED SILICON PALWAL	
33	RFID	NA	


वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिडका, रायबरेली (लालगंज)



Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1406

RLY	NFR	COACH NO	197733/C	DISPATCH TO	Sr.DME/GHY	DATE OF DISPATCH	7-Jan-20
Type	LWSCN1	Shell No.	97679			FUR.NO.	LSCN-1418

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 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.

SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy. QC/MCF/RBL

गुणवत्ता विभाग
मोडर्न कोच फैक्ट्री, रायबरेली (लालगंज)

वर्कशॉप इंजीनियरिंग/गुणवत्ता
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareilly

ज्योतिराम सिंह
उप मुख्य गुणवत्ता प्रबन्धक
By: Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197733/C
RAILWAY	NFR	ELECT.FIT DATE	07-01-2020
FUR.NO	SCN-1418		
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL, LAP CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2.	CONTROL CIRCUIT	OK	
7.3.	POWER CIRCUIT	OK	

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-1633 HT Panel Sr no : AE/USBC-1659	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KIND Sr no PA: ASY/0053 Sr no.1 : 19110105 Sr no.2 : 19110106 Srno.CPA: sr no -NIL-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: CG POWER	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin,Corridor,doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : INTRA	CC76289 & CC76443	09

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

11.	Battery fuse box +ve Make : INDORAIL	LW 71001, Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002, Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: W4K5L 191211	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2663	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0', Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105, Rev`e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : SIDWAL	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101, REV-C, AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORTS Sr no : 180641-60147-0082	M/s : ESCORTS	01 set
19.	110V, 120AH, VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 9/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

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

