



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/2020-21/847

RLY	WCR	COACH NO	205712/C	DATE OF DISPATCH	31-Dec-20
Type	LWSCN1	Shell No.	97855	DISPATCH TO	Sr.DME/JBP
				FUR.NO.	LSCN-1608

1. Railway Board's Order No. : 2020/M(C)/142/2, Dated-09.07.2020
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 1103/1097

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-OMAX AUTOS	20
		Part NPP END M/S-OMAX AUTOS	20
		Complete M/S-OMAX AUTOS	20
2	Lav. side wall	M/S-MIDAS GUJRAT LAV.1	----- LAV.2 -----
		M/S-MIDAS GUJRAT LAV.4	----- LAV.3 -----
3	Side wall	LH SIDE MCFRBL-V4U/LKO	529
		RH SIDE MCFRBL-V4U/LKO	529
4	End wall	PP END M/S-EEPL	-----
		NPP END M/S-EEPL	-----
5	Roof	M/S-ECBT	421
6	Centre Buffer Coupler	M/S-FRONTIER PP	309P1 NPP 90P2

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)	90/87	4-Jul-20
2	Insulation			Satisfactory		

28/01/2021
वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालमंज)





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/-847

RLY	W	C	R	Coach No.	2	0	5	7	1	2	/	C	-	DATE OF DISPATCH	3	1	1	2	2	0	2	0
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DISPATCH	Sr.DME/JBP	Type	L	W	S	C	N	1	Shell No.	9	7	8	5	5	FUR .NO	LSCN -1608
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	201846				201845			
Bogie Type	FIAT				FIAT			
Frame no.	MIPL- 676				MIPL- 663			
Bolster no.	ULTRA ENGG.- 97				ULTRA ENGG.- 045			
Axle No	20 B - 0425 RWF	20 B - 0355 RWF	20 A - 8602 RWF	20 B - 0180 RWF				
Wheel Dia	917.18	917.23	917.14	917.18	917.27	917.24	917.27	917.23
Wheel Disc No	TZ 05-19 42375-9PL3	TZ 05-19 42441-9PL4	TZ 05-19 41569-9PE1	TZ 05-19 41573-9PE1	TZ 01-19 21458-8XH7	TZ 05-19 46699-9RD5	TZ 05-19 49270-9PG9	TZ 05-19 45834-9ML8
R.B. Nos.	07-20 415578	07-20 416970	07-20 416473	07-20 417041	07-20 418152	07-20 417017	06-20 410599	06-20 415022
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.	AVADH RAIL Sr. NO- 07-20 9932	AVADH RAIL Sr. NO- 07-20 9937	AVADH RAIL Sr. NO- 07-20 9919	AVADH RAIL Sr. NO- 07-20 9891

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	ESCORT	6431,6432	6433,6434
2.	Primary outer Spring	CMFSK	06-20 F07-200(200,234,249,232)	06-20 F07-200-(15,208,242,236)
3.	Primary Inner Spring	CMFSK	07-20 F06-216(854,913,901,1823)	07-20 F06-216-(1749,1150,1249,1880)
4.	Primary Damper	IAI	12-19 (289606,289639,981823,289649)	12-19 (290062,289514,289827,289089)
5.	Secondary Damper	IAI	06-20 (326781,326603)	06-20 (327278,326882)
6.	Lateral Damper	KONI	04-19 0566	04-19 0680
7.	Brake Cylinder	KBI	C(9049,7692,7688,9050)K29	D(0308,0325)-K-29,C(8967,8952)-K-29
8.	Brake Caliper	KBI	C(4751,4908,4915,4749)-29	C(5756,5980,5979,5758)-29
9.	Brake Disc	FAV	07-20 (930,1588,905,906)D133561-300	07-20 (934,933,8877,8876)D133561-300
10.	Ball Joint Control Arm	AR/ GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR/ GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	2009579,20085922	20095531,20095808
17.	Check Valve	ESCORT	20091287	20098661
18.	Anti roll bar Make	RF		
19.	Roll Link make	SARITA+GMT/ SARITA+BONY		
20.	Fork make	RF		
21.	Control Arm Upper	SF	780,595,318,835	1091,1108,124,959
22.	Control Arm Lower	SF	343,219,119,471	157,89,121,55
23.	Phonic Wheel	KBI	K 12-19 640209	K-12-19

Signature of SSE/Bogie/QC



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Type	LWSCN1	Shell No.	97855	DISPATCH TO	Sr.DME/JBP
				FUR.NO.	LSCN-1608

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	4751 02 /20
2	Distribution valve	M/s-KBI	2020A10137
3	Pull box	M/s-KBI	
4	FIBA	M/s-KBI	9728/29,9698/29
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-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-FP KOLKATA	
15	Emergency Window	M/S-FP KOLKATA	
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	M/s-SVARN INFRATEL	
21	Vestibule Door(PPE)	M/s-KALSI LDH	
22	Vestibule Door(NPPE)	M/s-KALSI LDH	
23	Bio Tank	M/s-RAIL FAB KXH	
24	Presurized Flushing(Elect.pneumatic)	M/S-SPAC	
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	

Rheema
28/01/2021
वरिष्ठ SSE/QC/MCF/RBL

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Type	LWSCN1	Shell No.	97855	DISPATCH TO	Sr.DME/JBP
				FUR.NO.	LSCN-1608

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
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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:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- 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.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
- 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. COM/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)

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

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





Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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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		205712/C
RAILWAY		WCR	ELECT. FIT DATE	30-12-2020	MCF EUR. NO.	LSCN-1608
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
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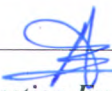
REV NO: 01

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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.: NEC On Board: 2020076485 HT Panel: 2020066051	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 3048	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: HIND Sr no : 20/10/580 Pump 1: 20/10/1199 Pump 2: 20/10/1200	As per spec no. EDTS186.REV-A.AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: HIND SL.no.: 20/10/644	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: AUTOMETERS Sr. no.: 03/20/089/R+E/0272	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : AUTO INDUSTRIES	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: M/S MEENAKSHI	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:9/19	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET


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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: ORIENT	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: RT VISION	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: INTRA	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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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): 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: 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 : 0120114662	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 SET

SSE/EL/QC
वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

AWM(ELECT.)/MCF/RBL
SEE(P)/MCF/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

