



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 727

Coach No.		1	8	2	1	4	/	C	-	Date of dispatch					3	0	-	0	3	-	1	8		
Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	2	1	4	-	2	0	1	7	-	1	8

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated-05-01-2018
2. Tare Weight of Coach : 41.24 Tones
3. Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL

4. 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	1) 1105 (NPPE) 2) 1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part Complete	M/S Pennar ind. Ltd patancheru telangana M/S Pennar ind. Ltd patancheru telangana
2.	Side wall	M/S V4U(CONTRACTOR)	RH 77214 LH 77214
3.	End wall	PP END NPP END	M/S E.c.blades & tool pvt. Ltd CDG M/S E.c.blades & tool pvt. Ltd CDG
4.	Roof	M/S TI metal forming thiruninravur	
5.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 5752 NPP END 5759
6.	Buffers	N.A.	

6. AIRBRAKE 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 . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ± 0.15 kg/cm ² . OK	07 Sec. 3.0 kg/cm ² 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

7. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -VIBGYOR	SUPPLY & SUPPLY	90/89
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

रॉलिंग स्टॉक, रायबरेली (उत्तर प्रदेश)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	-	Type	L	W	S	C	N	-	Shell No.	7	7	2	1	4	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170449				170450			
Bogie Type	FIAT				FIAT			
Frame no.	VS-834				VS-837			
Bolster no.	MCF/RBL-1299				MCF/RBL-1209			
Axle No	17 B-8126 RWF		17 B-9504 RWF		17 B-8712 RWF		17 B - 9643 RWF	
Wheel Dia	917.457	917.554	917.443	917.554	917.431	917.566	917.452	917.548
Wheel Disc No	TZ 05-17 19822-7PL3	TZ05-17 19821-70L3	TZ05-17 20084-70Q2	TZ05-17 20085-70Q2	TZ05-17 11509-70L8	TZ05-17 11510-70L8	TZ05-17 19752-7PL3	TZ05-17 11508-70L8
R.B. Nos.	11-17 16416	11-17 15314	11-17 16562	11-17 15244	1117 16523	11-17 15270	11-17 16414	11-17 15146
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.	CMGBD04-17- 5101-32-274	CMFSK04- 17F08-222-114	CMGBD04-17- 5101-32-266	CMFSK04- 17F08-222-57	CMGBD04-17- 5101-32	CMFSK04-17F08- 222-242	CMGBD04-17- 5101-32	CMFSK04-17-F08- 222-210
Compressed Ht. at Tested Load	516	467.5	516	468	514	469	514	469
Alignment deviation (mm)	6	5	7	7	9	5	9	7

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GABRIEL	1861,1895,	1962,1896
2.	Primary outer Spring	CMFSK	05-17 1101-318(262,214,295,136)	05-17 F07-318(266,285,143,340)
3.	Primary Inner Spring	CMGBD	05-17 1101-35(249,271,257,341)	06-17 1101-35(280,270,263,374)
4.	Primary Damper	KNORR	09-17(11821,11831,11846,11844)	09-17(11525,12000,11700,11707)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	SV	06-17 019524	06-17 019524
7.	Brake Cylinder	KBI	A0422K29,A0186K29,A0184K29,A0514K29	A0421,A0185,A0189,A0424
8.	Brake Caliper	KBI	9492-29,9519-29,9517-29,9491-29	9493-29,9516-29,9518-29,9494-29
9.	Brake Disc	KBI	24123199 0022-04/18,24123201 0001-04/18 24123200 0027-04/18,24124430 0015-04/18	24123198 0035-04/18,24123199 0037-04/18 24123201 0018-04/18,24123198 0034-04/18
10.	Ball Joint Control Arm	MTC		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	MTC		
15.	Ball joint traction centre	GMT/MTC		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ GMT/BONY		
20.	Fork make	EMSON/SARITA		
21.	Control Arm Upper	RVE	140218-2,RV,RV,130218-2	RV,100218-2,140218-2,RV
22.	Control Arm Lower	RVE	RV,RV,110218-2,150218-1	110218-2,110218-2,100218-2,130218-2





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11.TRACEABILITY OF FURNISHING ITEMS:

SNO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	0105 51/17
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2017M4027
4.	Foot Step	M/s Super spark pvt. ltd. faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S TWPL mumbai	
7.	PVC	M/s Premier polyfilm, New Delhi	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	UIC Vestibule (PPE)	M/s-Sunrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Sunrest ind.kolkata	
11.	Gangway bridge mounting (PPE)	M/s Rakesh iron store KXH	
12.	Gangway bridge mounting (NPPE)	M/s Rakesh iron store KXH	
13.	Body Side Window	M/s EXCEL india Pvt. Ltd, Kolkata	
14.	Emergency Window	M/s EXCEL india Pvt. Ltd, Kolkata	
15.	Hopper Window	M/S Rail tech pvt.ltd. KXH	
16.	Side panel	M/S-Deco mica ahemdabad	
17.	Roof ceiling	M/s SYNTCTICK MOULDER KOLKATA	
18.	Door way ceiling	M/s RAJA IND.KHANNA	
19.	Body Side Doors2,4	M/s JBM Faridabad	
20.	Body Side Doors1,3	M/s JVR LDH	
21.	Vestibule Door(PPE)	M/s JBM Faridabad	
22.	Vestibule Door(NPPE)	M/s JBM Faridabad	
23.	Bio Tank	M/s P.D. STEEL	
24.	Auxiliary Water Tank	M/s MANOJ eng. Baddi	
25.	Under Slung Water Tank(2X685L)	M/s Amit eng. Baddi	
26.	Under Slung Water Tank (1X685L)	M/s MANOJ eng. Baddi	
27.	Controlled Discharge Tap	M/s Kalsi Pumps JALANDHER	
28.	Lavatory Doors	M/s JR Industries Jalandhar	
29.	Seat & Berth	M/s SUKATA PUNCHKULA	
30.	Snack Table	M/s Gandhi JALANDHER	


SSE/QC/MCF/RBL

रिपोर्टिंग अधिकारी
मुख्यता विभाग
रेलवे कारखाना, रायबरेली (उ.प्र.)



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Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	2	1	4	-	2	0	1	7	-	1	8

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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 30 months 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 date of 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	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

रेडिंक 0, रायबरेली (लालमन)

जी.एस. पाण्डेय
G.S. Pandey
सहायक यांत्रिक अभियंता / गुणवत्ता
Assistant Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

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

TYPE COACH	LWSCN	SHELL/COACH NO	18214/C
RAILWAY	CR	DATE OF DESPATCH	
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



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT On Board Sr no : AE/USBC-571 HT Panel Sr no : AE/USBC-591	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2017/05/095 Sr no.1 : 17030058 Sr no.2 : 17030010 Sr no.CPA: 0064/09/2017	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : RECORD	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : KAPSONS INDUSTRIES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: RT VISION	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 : KAVERI	CC76289 & CC76443	10


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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INDORAIL	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : HIREL Sr no: 16120293	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-16016057	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev` e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : ELECOS	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0117373708	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 01/2018	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	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
रायबरेली/लखनऊ/रायबरेली
S.S.E/EL-QC/MCF/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer/RCF/RBL/Lucknow