



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/ 628

Coach No.		1	8	2	0	6	/	C	-	Date of dispatch					1	1	-	0	3	-	1	8		
Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	1	9	8	-	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) 1103 (NPPE) 2) 1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:


S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part Complete	M/s Shivalic fastners pvt.ltd. mohali	PP END 06 NPP END 06
2.	Side wall	M/S V4U(CONTRACTOR)	RH 77198 LH 77198
3.	End wall	PP END M/S E.c.blades & tool pvt. Ltd CDG	PP END 77198 NPP END 77198
		NPP END M/S E.c.blades & tool pvt. Ltd CDG	
4.	Roof	M/S Pennar ind. Ltd. Thiruvallur tamilnadu	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 2838 NPP END 2831
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	08 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:

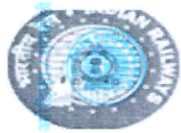
S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -VIBGYOR	MCF	91/89
2.	Insulation			Satisfactory	


SSE/QC/MCF/RBL
मुख्य निरीक्षक

रेडिंकॉ, रायबरेली (लालगंज)

LSCN-559





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/2017-18/628

COACH.NO	1	8	2	0	6	/	C	-	DATE OF DISPATCH							1	1	-	0	3	-	1	8	
RLY	C	R	-	-	TYPE	L	W	S		-	SHELL. NO.	7	7	1	9	8	-	2	0	1	7	-	1	8

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	171273				171274			
Bogie Type	FIAT				FIAT			
Frame no.	VS-783				VS-RBL-778			
Bolster no.	AMIT-174				AMIT-181			
Axle No	17-B-9550		17-B-8170		17-B-8356		17-B-9656	
Wheel Dia	917.515	917.495	917.543	917.532	917.548	917.469	917.574	917.484
Wheel Disc No	TZ05-17 15740-70N2	TZ05-17 15748-70N2	TZ05-17 12367-70K2	TZ05-17 20521-70K0	TZ05-17 13387-70-L6	TZ05-17 20453-7PK3	TZ05-17 15749-70N2	TZ05-17 13386-70L6
R.B. Nos.	05-17 15644	05-17 58160	06-17 77898	05-17 58821	06-17 78213	05-17 58866	05-17 15641	05-17 58834
CTRB Make	SKF		SKF		SKF		SKF	

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.	DN16X-1910-1	CMFSK09-17 5100 315-147	DN16X-1946	CMFSK09-17 5100 315-137-118	DN16W-2021	CMFSK09-17 5100-315-171	DN16X-2026	CMFSK09-17 5100-315-28
Compressed Ht. at Tested Load	511	470.5	511	468	516	472	514	472
Alignment deviation (mm)	8	7	8	7	13	10	15	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	SV	510,474	479,583
2.	Primary outer Spring	CMFSK	08-17(206,113,237,263)	08-17(358,157,403,13)
3.	Primary Inner Spring	CMFSK	05-17 (446,285,42,62)	09-17 (45,262),08-17(270,444)
4.	Primary Damper	KNORR	07-17(10411,10065,10364,10414)	07-17(10368,10349,9976,10055)
5.	Secondary Damper	GABRIEL	07/2017(1727,1223)	17/2017-(1224,1227)
6.	Lateral Damper	SV	SV 06-17 019524	SV 06-17 019524
7.	Brake Cylinder	KBI	9760K29,9467K29,9474K29,9761K29	9696K29,9450K29,9466K29,9695K29
8.	Brake Caliper	KBI	8765-29,8831-29,8830-29,8766-29	8754-29,8809-29,8812-29,8753-29
9.	Brake Disc	KBI	24113144-0011-54/17,24119145-0007-52/17, 24119145-0005-52/17,24119144-0016-52/17	24119143 0023-52/17,24119107 0007-52/17 24119145 0010-52/17,24119144 0013-52/17
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction Lever	MTC		
15.	Ball joint traction centre	S-BLOC		
16.	Secondary Rubber Pad	TECSPAK/ WINLANE		
17.	Rubber Spring	GMT/MTC		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR/MTC		
20.	Fork make	EMSON		

Signature of SSE/Bogie/QC



MCF/RBL



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
REV NO: 00
DATE: 16.05.2016

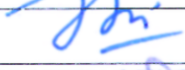
ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 628

Coach No.		1	8	2	0	6	/	C	-	Date of dispatch				1	1	-	0	3	-	1	8			
Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	1	9	8	-	2	0	1	7	-	1	8

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	PASS17L2857
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2017L3895
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 AGF Pvt. Ltd, Kolkata	
14.	Emergency Window	M/s EXCEL india Pvt. Ltd, Kolkata	
15.	Hopper Window	M/s Aikon ind.salon H.P	
16.	Side panel	M/S-Deco mica ahemdabad	
17.	Roof ceiling	M/s MICA PLY BHOPAL	
18.	Door way ceiling	M/s JR Industries Jalandhar	
19.	Body Side Doors	M/s JBM Faridabad	
20.	Vestibule Door(PPE)	M/s Kalsi LDH	
21.	Vestibule Door(NPPE)	M/s Kalsi LDH	
22.	Bio Tank	M/s Rasandik eng.ind.ltd.	
23.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
24.	Under Slung Water Tank(2X685L)	M/s Amit eng. Baddi	
25.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Controlled Discharge Tap	M/s.Kalsi Pumps JALANDHER	
27.	Lavatory Doors	M/s JR Industries Jalandhar	
28.	Seat & Berth	M/s Oriental veneer products	
29.	Snack Table	M/s Gandhi JALANDHER	


SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (तालमंज)





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/ 628

Coach No.		1	8	2	0	6	/	C	-	Date of dispatch				1	1	-	0	3	-	1	8			
Rly	C	R	-	-	Type	L	W	S	C	N	Shell No.	7	7	1	9	8	-	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, 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 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 गुणवत्ता विभाग रेडिंकॉड, रायबरेली (लालगंज)	AME/QC/MCF/RBL जी.एस. पाण्डेय G.S. Pandey सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer / Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL जगदीश सिंह Joginder Singh उप मुख्य गुणवत्ता प्रबंधक 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: 00

DATE: 18.01.2017

PAGE 1 OF 3

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	18206/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





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना,
रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 2 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT On Board Sr no : AE/USBC-609 HT Panel Sr no : AE/USBC-612	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KIND Sr no PA: 0002 Sr no.1 : 17070017 Sr no.2 : 17070018 Sr no.CPA: 17070067	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	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: DR AUTO	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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना,
रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

PAGE 3 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INDO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : AAL Sr no: BCH061710297	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016639	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 : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0117393740	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : A RAJA Lug date : 04/17	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 कोच डिपार्टमेंट / लालगंज / रायबरेली E/Elect-QC/M.C.F./LLJ/RBL	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr. Electrical Engineer / RCF / RBL / Lucknow
---	---

