



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/2018-19/594

Rolling Stock Certificate No.: MCF/RDL/QC/RSC/2018																								
RLY	C	R	-	Coach No.	1	8	1	7	6	9	/	C	DATE OF DISPATCH	3	0	-	0	9	-	1	8			
DISPATCH TO		Sr.DME(COG)BB		Type	L	W	S	C	N	1	Shell No.	8	7	1	5	7	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2 Dated-14-09-2018
- Tare Weight of Coach : 41.24 Tones
- 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) 1101 (NPPE) 2) 1104 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/S DTL ancillaries ltd pune	32
	Front Part	NPP END M/S DTL ancillaries ltd pune	32
	Complete	M/S DTL ancillaries ltd pune	32
2.	Lav.side wall	M/S JSL COMP.	LAV.1
		M/S JSL COMP.	LAV.3
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	110
		RH SIDE MCF/RBL (CONTRACTOR V4U)	110
4.	End wall	PP END M/S Neera chandigarh	---
		NPP END M/S Neera chandigarh	---
5.	Roof	MCF/RBL	34
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7245 NPP END 7178

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	08Sec. 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 & apply	89/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

वरिष्ठ अभियंता
गुणवत्ता विभाग
रेडिओका, रायबरेली (जालगाँव)



MCF/RBL



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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DATE: 16.05.2016

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RLY	C	R		-	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	7	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181473				181474			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1064				MCF/RBL-1044			
Bolster no.	APEX-265				SFPL-358			
Axle No	18 F- 9022 RWF		18 F -8117 RWF		17 Z- 9693RWF		18 F - 9146 RWF	
Wheel Dia	917.604	917.651	917.598	917.632	917.574	917.585	917.581	917.565
Wheel Disc No	TZ06-18 28847-8QM0	TZ06-18 28846-8QM0	TZ07-18 34252-8RG4	TZ07-18 34253-8RG4	TZ07-18 31897-8RH0	TZ07-18 33569-8QP3	TZ06-18 29437-8QN7	TZ07-18 33568-8QP3
R.B. Nos.	05-18 28925	05-18 12406	05-18 28911	04-18 26219	04-18 26248	05-18 39669	05-18 39657	04-18 26233
CT R B 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.	CMGBD06-18- 5101-78-209	CMGBD03-18- 5100-40-510	CMGBD06-18- 5101-78-213	CMGBD03-18- 5100-40-532	CMGBD06-18- 5101-78-163	CMGBD03-18- 5100-40-541	CMGBD06-18- 5101-78-147	CMGBD03-18- 5100-40-413
Compressed Ht. at Tested Load	516	471	516	470	516	472	516	471
Alignment deviation (mm)	9	11	9	11	6	6	6	6

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	46,37	53,40
2.	Primary outer Spring	CMGBD	06-18 1100 (71-109,72-123,71-108,69-181)	06-18 1100 (56-107,72-443,69-106,69-183)
3.	Primary Inner Spring	CMGBD/CMFSK	05-18-1101 (56-215,56-195,57-286,57-120)	04-18-1101-402(554,757,537,11)
4.	Primary Damper	KNORR	06-18(24914,24950,24984,24936)	06-18(24949,24939,24903,24928)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 3868	06-18 4147
7.	Brake Cylinder	ESCORT	44651,45187,45186,44650	44658,44439,44438,44653
8.	Brake Caliper	ESCORT	24710,25126,25125,24709	24713,24620,24619,24712
9.	Brake Disc	FAV	09-18(1755,1804,1754,1753) D133561-300	09-18 (1844,1792,1734,1730)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	J		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA /PRAG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	139818-1,139818-1,190818-3,RVE	190818-3,280718-1,140818-2,RVE
22.	Control Arm Lower	RVE	160818-1,160818-1,160818-1, 160818-1	030818-2,RVE,180818-1,280718-1

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	7	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	2018080054
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8054
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHINOOR IND JALANDHER	
6.	Floor board	M/S Shri ram pnl, govindgerh (PB)	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s OASIS INDS. JAGADHARI	
9.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Suncrest 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 .KOLKATA	
14.	Emergency Window	M/s AGF .KOLKATA	
15.	Hopper Window	M/s Aikon ind.salon H.P	
16.	Side panel	M/S- SUNGLOW LAMINATE, PUNJAB	
17.	Roof ceiling	M/s -SYANTHETIC KOLKATA	
18.	Door way ceiling	M/s RAJA INDS. KHANNA	
19.	Body Side Door,2	M/s JBM FARIDABAD	
20.	Body Side Door, 1,3,4	M/s JVR LDH	
21.	Vestibule Door(PPE)	M/s KALSI LDH	
22.	Vestibule Door(NPPE)	M/s KALSI LDH	
23.	Bio Tank	M/s FLASH FORGE VIZAG	
24.	Auxiliary Water Tank	M/s MANOJ . mohali	
25.	Under Slung Water Tank(2X685L)	M/s AMIT ENG. . BADDI	
26.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. . mohali	
27.	Flexible Faucet	M/s KAPCO VALVES,JALANDHAR	
28.	Lotah Filler Tap	M/s KAPCO VALVES,JALANDHAR	
29.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
30.	Lavatory Doors	M/s Kalsi LDH	
31.	Seat & Berth	M/s OVPL MUMBAI	
32.	Snack Table	N/A	

Raman
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
रेडिंकॉ, रायबरेली (जालंधर)



MCF/RBL



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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

वरिष्ठ अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (तालमज)

सहायक अभियंता-1
Assistant Mechanical Engineer / Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

जोगिंदर सिंह
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



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	181769/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 : ISG On Board Sr no : 17-10-0017 HT Panel Sr no : 18-07-0014	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/016 Sr no.1 : 18060310 Sr no.2 : 18060070 Sr no.CPA: 2018/09/001	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: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK	EDML 086, Rev 03, ITEM-02	10
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 ELECT.	CC76289 & CC76443	10


Senior Section Engineer
Quality control / Electrical
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : NAREN ELECT. Sr no: 1808425	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : -1000	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 : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180055-59399-0080	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 07/18	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
आपरेटिंगका/ लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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

