



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/2018-19/591

RLY	C	R	-	Coach No.	1	8	1	7	8	1	/	C	DATE OF DISPATCH	3	0	-	0	9	-	1	8
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DISPATCH TO	Sr.DME/Cog./BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	6	-	2	0	1	8	-	1	9
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- 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
- 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) 1095 (NPPE) 2) 1101 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/S Rail tech pvt.ltd. KXH	02
		NPP END M/S Rail tech pvt.ltd. KXH	02
	Complete	M/S Rail tech pvt.ltd. KXH	02
2.	Lav.side wall	M/S JSL COMP.	LAV.1 ----- LAV.2 -----
		M/S JSL COMP.	LAV.3 ----- LAV.4 -----
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	112
		RH SIDE MCF/RBL (CONTRACTOR V4U)	112
4.	End wall	PP END M/s Shivalic fastners pvt.ltd. mohali	---
		NPP END M/s Shivalic fastners pvt.ltd. mohali	--
5.	Roof	MCF/RBL	41
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7186 NPP END 7196

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 -GS	Supply & apply	89/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

वारंजनी अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181494				181493			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1957				AML-024			
Bolster no.	AMIT-38				AMIT-632			
Axle No	17 Y- 9964 RWF		17 Z- 9644 RWF		17 Z- 9618 RWF		17 Z- 9559 RWF	
Wheel Dia	917.62	917.596	917.629	917.619	917.631	917.668	917.625	917.619
Wheel Disc No	TZ07-18 35862-8QN7	TZ07-18 35861-8QL7	TZ07-18 34611-8RH1	TZ07-18 34610-8RG3	TZ07-18 33775-8QM2	TZ07-18 33774-8QM2	TZ07-18 35859-8RH2	TZ07-18 35860-8QN9
R.B. Nos.	04-18 25609	05-18 12409	05-18 38872	04-18 25602	05-18 11528	05-18 28919	05-18 12385	04-18 22631
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.	CMFSK01-18- 5101-143-89	CMGBD03-18- 5100-41-486	CMFSK01-18- 5101-344-35	CMGBD03-18- 5100-40-328	CMFSK02-18-5111- 382-1	CMGBD03-18- 5100-41-380	CMFSSK01-18- 5101-343-70	CMGBD03-18- 5100-41-501
Compressed Ht. at Tested Load	516	471	516	472	513	469	515.5	472
Alignment deviation (mm)	9	12	9	12	8	6	7	6

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	165,157	121,160
2.	Primary outer Spring	CMGBD	06-18 1100(71-306,74-228,72-159,69-128)	06-18 1100-72(417,423,416,415)
3.	Primary Inner Spring	CMGBD	05-18-1101-56(1111,1055,1056,1112)	05-18-1101 (57-1081,56-1131,56-1084,56-1048)
4.	Primary Damper	KNORR	07-18(26157,26159,26163,26166)	07-18(26160,26161,26168,26167)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 3778	06-18 3774
7.	Brake Cylinder	FAV	G18-606,H18-547,G18-552,H18-319	H18(321,553,269,586)
8.	Brake Caliper	FAV	K18(275K273K082K084)B	K18(083,081,277,279)B
9.	Brake Disc	FAV	08-18(131,132,173,123)D133561-300	08-18 (112,128,156,157) D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	J/GMT		
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	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	140818-2,RVE,RVE,030818-2	130818-1,120818-1,130818-1,280718-1
22.	Control Arm Lower	RVE	RVE,160818-1,030818-1,140818-1	130818-1,130818-2,140818-1,030818-1

Signature of SSE/Bogie/QC





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11.TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	D18057B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045562B
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
6.	Floor board	M/S TWPL MUMBAI	
7.	PVC	M/s ACME INDIA NDLS	
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 COMPETENT ENG.JALANDHAR	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENG.JALANDHAR	
13.	Body Side Window	M/s ACME INDIA NDLS	
14.	Emergency Window	M/s ACME INDIA NDLS	
15.	Hopper Window	M/s ACME INDIA NDLS	
16.	Side panel	M/s ACME INDIA NDLS	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way ceiling	M/s ACME INDIA NDLS	
19.	Partition frame	M/s ACME INDIA NDLS	
20.	Partition pillar	M/s ACME INDIA NDLS	
21.	Body Side Door	M/s JBM Faridabad	
22.	Vestibule Door(PPE)	M/s KALSI LDH	
23.	Vestibule Door(NPPE)	M/s KALSI LDH	
24.	Bio Tank	M/s FLASH FORGE VIZAG	
25.	Auxiliary Water Tank	M/s MANOJ ENT . mohali	
26.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
27.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
28.	Flexible Faucet	M/s ACME INDIA NDLS	
29.	Lotah Filler Tap	M/s ACME INDIA NDLS	
30.	Controlled Discharge Tap	M/s HINDWARE ,(HSIL LTD) GURGAON	
31.	Lavatory Doors	M/s ACME INDIA NDLS	
32.	Seat & Berth	M/s ACME INDIA NDLS	
33.	Snack Table	N/A	

[Signature]

SSE/QC/MCF/RBL

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गुणवत्ता विभाग

रेडिंकॉ, रायबरेली (ल.प्र.पं.)



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12. MODIFICATION (IF ANY) : Partition frame & Partition pillar

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

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

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 qualityrcfrbl@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

बरेल्लो अडिवांता
गुणवत्ता विभाग
रोडिंका, रायबरेली (महाराष्ट्र)

Modern Coach Factory, Raebareli

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