



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/2018-19/590

RLY	C	R	-	Coach No.	1	8	1	7	7	2	/	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	2	8	-	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) 1102 (NPPE) 2) 1103 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Omax auto gurgaon HR
		NPP END M/S Omax auto gurgaon HR	29
		Complete	38
		MCF/RBL	87128
2.	Lav.side wall	M/s JSL COMP.	LAV.1
		M/s JSL COMP.	LAV.2
			LAV.3
			LAV.4
3.	Side wall	LH SIDE	MCF/RBL (CONTRACTOR V4U)
		RH SIDE	MCF/RBL (CONTRACTOR V4U)
			108
			108
4.	End wall	PP END	M/s P.D.STEEL
		NPP END	M/s P.D.STEEL

5.	Roof	MCF/RBL	35
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7225 NPP END 7228

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	06Sec. 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	89/87
2.	Insulation			Satisfactory	

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (कलमंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

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RLY	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	2	8	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181447				181448			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-789				ECBT-793			
Bolster no.	AMIT-332				VS-46			
Axle No	18 F- 8670 RWF		18 F- 8164 RWF		18 F- 9402 RWF		18 F- 8226RWF	
Wheel Dia	917.503	917.640	917.517	917.641	917.537	917.634	917.516	917.659
Wheel Disc No	TZ07-18 34224-8RG5	TZ07-18 34225-8RG5	TZ07-18 34223-8RG5	TZ07-18 32053-8QP2	TZ07-18 31755-8RH5	TZ07-18 31752-8RH5	TZ07-18 31962-8RG7	TZ07-18 32054-8QP2
R.B. Nos.	05-18 29460	05-18 28130	04-18 25671	04-18 24229	04-18 25475	04-18 26284	04-18 26297	04-18 25720
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- 5101-343-78	CMGBD03-18- 5100-40-441	CMFSK01-18- 5101-343-87	CMGBD03-18- 5100-40-518	CMGBD09-17- 5101-98-4	CMGBD03-18- 5100-41-453	CMGBD09-17- 5101-98-36	CMGBD03-18- 5100-41-409
Compressed Ht. at Tested Load	514	472	515	472	512	472	513	472
Alignment deviation (mm)	7	11	10	11	9	11	8	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	50,47	54,45
2.	Primary outer Spring	CMGBD	06-18 1100-72(165,70,84,433)	06-18 1100-72(93,76,168,186)
3.	Primary Inner Spring	CMGBD	03-18-1101-56(204,34)05-18 1101-56(276,95)	05-18-1101-56(45,263,270,205)
4.	Primary Damper	KNORR	07-18(26681,26663,26665,26662)	07-18(27214,27221,27215,27217)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 3952	06-18 9353
7.	Brake Cylinder	ESCORT	44628,45234,44235,44629	44589,44390,44392,44586
8.	Brake Caliper	ESCORT	24689,25173,26174,24690	24650,24571,24573,24647
9.	Brake Disc	FAV	07-18(68,70),08-18(142,166)D133561-300	07-18 (18,69),08-18(146),07-18 29 D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
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 /PARG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	140818-2,160812-2,RVE,160818-2	RVE,140812-2, 120812-2,160818-2
22.	Control Arm Lower	RVE	RVE,140818-1,RVE,410818-1	140818-2,140818-2, RVE, RVE,

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 Escorts ltd railway equipment FBD	2018080028
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8028
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHINOOR 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 AGF .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,4	M/s JBM IND Faridabad	
20.	Body Side Door,1,2,3	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,2,4	M/s KALSI LDH	
31.	Lavatory Doors,1,3	M/s J.R. JALANDHAR	
32.	Seat & Berth	M/s OVPL MUMBAI	
33.	Snack Table	N/A	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रजिडि0का0, रायबरेली (जल राज)



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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 मुख्य निरीक्षक गुणवत्ता विभाग रेलवे, रायबरेली (लागू)	Assist. Chief Engineer, Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. COM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli