



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/2018-19/633
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	1	9	/	C	-	DATE OF DISPATCH	1	1	-	1	0	-	1	8
DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	2	6	-	2	0	1	8	-	1	9

1. Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
2. Tare Weight of Coach : 40.66 Tonnes
3. Carrying Capacity : (a) Seating: 100 (b) 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)1095 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Manjit techno fab raebareli
		NPP END M/S Manjit techno fab raebareli	199
		Complete M/S Manjit techno fab raebareli	199
2.	Lav.side wall	M/S Indira ind.ranipet chennai	LAV.1 - LAV.2 -
		M/S Indira ind.ranipet chennai	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(V4U CONTRACTOR)	40
		RH SIDE MCF/RBL(V4U CONTRACTOR)	40
4.	End wall	PP END M/s AMIT ENG.	-
		NPP END M/S Rail tech pvt.ltd. KXH	-
5.	Roof	MCF/RBL	24
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 4005 NPP END 3825

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 DETAILS:

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	77/89
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनु० अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (जलपथ)



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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	2	6	-	-	-	-	-	-	

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180675				180676			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-468				MCF/RBL/LS5-433			
Bolster no.	MCF/RBL/LS5-433				MCF/RBL/LS5-438			
Axle No	18 F-8576 RWF		18F - 8150 RWF		17 Z-4734 RWF		17 Z - 9633 RWF	
Wheel Dia	917.649	917.589	917.591	917.555	917.615	917.563	917.46	917.49
Wheel Disc No	TZ07-18 32545-8RH3	TZ07-18 34255-8RG9	TZ07-18 34257-8RH3	TZ07-18 32552-8RH3	TZ07-18 32554-8RH3	TZ06-18 29434-8QN7	TZ07-18 31886-8RH5	TZ07-18 32553-8RH3
R.B. Nos.	05-18 12387	05-18 11515	05-18 1248	05-18 37241	05-18 39388	05-18 12969	05-18 12407	05-18 27286
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1055	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1267	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1130	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1080

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	153,236	149,150
2.	Primary outer Spring	CMGBD	06-18 1100 (67-170,69-10,72-208,67-169)	06-18 1100 (72-115,69-121,69-161-72-164)
3.	Primary Inner Spring	CMGBD	05-18 1101(56-861,57-759,57-157,56-896)	05-18 1101(56-100,56-763,57-649,57-799)
4.	Primary Damper	KNORR	07-18(26837,26839,26838,26836)	07-18 (26834,26835,26833,26840)
5.	Secondary Damper	GEREP	17-2017 301550739	17-2017 301550739
6.	Lateral Damper	GEREP	17-2017 301550559	17-2017 301550559
7.	Brake Cylinder	FAV	H18(359,196,199,356)	H18(320,029,030,325)
8.	Brake Caliper	FAV	K18(155,154,155,156)B	K18(088,086,085,087)B
9.	Brake Disc	FAV	09-18(1644,1643,1655,1796)D133561-300	09-18(1632,1642,1656,1654)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	J		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	FAV	F18-546,F18-551	G18,G18
17.	Check Valve	FAV	H18-064	G18-049
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	170818-2,030818-2,120818-2,040818-4	040818-4,160818-2,120818-1,120818-2
22.	Control Arm Lower	RVE	010718-1,030818-1,270818-3,030818-1	140818-2,030818-1,160818-1,170818-1

Signature of SSE/Bogie/QC



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DISPATCH TO	Sr.DME/JP	Type	L	W	S	-	-	Shell No.	8	6	0	2	6	-	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 Faively transport tech.india ltd baddi(HP)	D18024B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045523B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s Escorts ltd railway equipment FBD	PP END NPP END 18050157 18050176
5.	Foot Step	M/s Super spark pvt.ltd. faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s TWPL MUMBAI	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
10.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
11.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
12.	Gangway Bridge mounting(PPE)	M/s COMPETENT ENG JALANDHAR	
13.	Gangway Bridge mounting(NPPE)	M/s COMPETENT ENG JALANDHAR	
14.	Body Side Window	M/s KINECO LTD GOA	
15.	Emergency Window	M/s KINECO LTD GOA	
16.	Hopper Window	M/s KINECO LTD GOA	
17.	Roof ceiling	M/s KINECO LTD GOA	
18.	Door way gangway ceiling	M/s KINECO LTD GOA	
19.	Body Side Doors	M/s JBM FARIDABAD	
20.	Vestibule door(PPE)	M/s HANSPAL KXH	
21.	Vestibule door (NPPE)	M/s JBM FARIDABAD	
22.	Bio Tank 1,2,3	M/s M.K.METAL PARTS	
23.	Bio Tank 4	M/s FLASH FORGE VIZAG	
24.	Overhead Water Tank(4X390L)	M/s RAIL FAB KXH	
25.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
26.	Lavatory Doors	M/s KINECO LTD GOA	
27.	Fire Extinguisher	M/s FIRE BITE	NPP-2448,PP-2451
28.	Water purified	M/s PRAG POLYMER	NPP-2/301,PP-2/347
29.	Seat & Berth	M/s KINECO LTD GOA	
30.	Luggage Rack	M/s KINECO LTD GOA	
31.	Light Luggage Rack	M/s KINECO LTD GOA	

SSE/QC/MCF/RBL

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रेडिंक 0, रायबरेली (लाइव)



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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	2	6	-	2	0	1	8	-	1	9
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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 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

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (बालमन्त्री)

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

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES

SHELL/COACH NO	18419/C	TYPE COACH	LWS/DF
RAILWAY	WCR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
2.	LIGHTS, 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
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PAGE 2 OF 3

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-531 HT Panel Sr no : AE/USBC-458	EDTS 333, Rev`01`Am-1	01
02.	Emergency light system for EOG type coaches (AEL), Make : CONCORD CONTROL SYSTEM	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: KAVERI	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-I Drg no. LW 76098.	02
04.	Fitment of Switch Plate Assly (Cabin Side) Make : SSK	EDML 127,Rev-1& DRG NO 4248ALT-a	10
05.	Fitment of Switch Plate Assly (Corridor Side) Make : SSK	EDML 127,Rev-1 & DRG NO 4249 ALT-a	10
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : IMT CABLES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
07.	Provision of Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL- 0091(REV-1) TYPE B-1	28
08.	Provision & Mounting of Lavatory Light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-D & Drg no. LW 76092.	04

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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09.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: WEBCG-184788	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : -1018	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e` Am-3 TYPE-2	01 set
14.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 25/18/1047	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 07/18	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	 SEE(P)/MCF/RBL DyCEE/P&P/MCF/RBL
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गुणवत्ता नियंत्रण
आउटरीडिंग / 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

