



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/2018-19/691
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	2	4	/	C	-	DATE OF DISPATCH	2	5	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/IBP	Type	L	W	S	-	-	Shell No.	8	6	0	4	7	-	2	0	1	8	-	1	9
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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)1102 (NPPE) 2)1105 (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	213
		NPP END M/S Manjit techno fab raebareli	213
	Complete	M/S Manjit techno fab raebareli	213
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(V4U CONTRACTOR)	46
		RH SIDE MCF/RBL(V4U CONTRACTOR)	46
4.	End wall	PP END M/s AMIT ENG.	-
		NPP END M/s AMIT ENG.	-
5.	Roof	MCF/RBL	43
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3969 NPP END 3812

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	76/87
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

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रेडि०का०, रायबरेली (लालगंज)



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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	4	7	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180682				180681			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1944				SCI-1945			
Bolster no.	AMIT-42				AMIT-61			
Axle No	17 Y-7216 RWF		17 Z - 9650 RWF		18 F-8267 RWF		18 F - 8562 RWF	
Wheel Dia	917.694	917.465	917.639	917.537	917.659	917.554	917.679	917.571
Wheel Disc No	TZ07-18 32532-8RH3	TZ07-18 32533-8RH3	TZ07-18 34719-8RG2	TZ07-18 34720-8RG2	TZ07-18 32520-8RH3	TZ07-18 32521-8RH3	TZ07-18 32537-8QPO	TZ07-18 32536-8RH3
R.B. Nos.	01-18 01668	05-18 00248	01-18 01691	05-18 00180	05-18 00927	05-18 00437	05-18 00184	01-18 00736
CT R B Make	NBC		NBC		NBC		NBC	

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. 18-05-1076	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1062	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1104	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1274

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	629,1191	646,567
2.	Primary outer Spring	CMGBD	06-18-1100 (72-385,36-56,69-386,56-427)	06-18 1100-72(402,393,428,422)
3.	Primary Inner Spring	CMGBD	05-18 1101 (56-182,57-625,56-618,56-623)	05-18 -1101- (57-762,56-866,56-207,36-17)
4.	Primary Damper	KNORR	07-18(26131,26132,26118,26120)	07-18(26129,26121,26117,26119)
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(069,466,464,596)	H18(595,459,467,071)
8.	Brake Caliper	FAV	K18(408,406,414,416)B	K18(415,413,405,407)B
9.	Brake Disc	FAV	09-18(1648,1647,1699,1700,)D133561-300	09-18(1703,1702,1704,1845)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.	Leveling Valve	FAV	G18-119,G18-111	E18-357,E18-372
17.	Check Valve	FAV	G18-059	E18-182
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	170518-2,170518-2,170518-1,280718-1	170818-2,280718-1,190518-2,170818-2
22.	Control Arm Lower	RVE	160818-1,030818-3,170818-1,030818-1	170818-1,170818-1,030818-3,170818-1

Deen Dayalu

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)	D18013B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045505B
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
5.	Foot Step	M/s Super spark pvt.ltd. faridabad	18050159 18050168
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 Rakesh iron store KXH	
13.	Gangway Bridge mounting(NPPE)	M/s Rakesh iron store KXH	
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 SUKATA CDG	
20.	Vestibule door(PPE)	M/s HANSPAL KXH	
21.	Vestibule door (NPPE)	M/s HANSPAL KXH	
22.	Bio Tank	M/s M.K.METAL PARTS	
23.	Overhead Water Tank(4X390L)	M/s RAIL FAB KXH	
24.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
25.	Lavatory Doors	M/s KINECO LTD GOA	
26.	Fire Extinguisher	M/s FIRE FITE	NPP-1573,PP-1577
27.	Water purified	M/s WM	NPP-143,PP-088
28.	Seat & Berth	M/s KINECO LTD GOA	
29.	Luggage Rack	M/s KINECO LTD GOA	
30.	Light Luggage Rack	M/s KINECO LTD GOA	

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DISPATCH TO	Sr.DME/JBP			Type	L	W	S	-	-	Shell No.	8	6	0	4	7	-	2	0	1	8	-	1	9

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 qualitycfrbl@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 वरिष्ठ अभियंता गुणवत्ता विभाग रौंडि०का०, रायबरेली (लालगंज)	 AME/QC/MCF/RBL सहायक अभियंता/गुणवत्ता-1 Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. Chief Quality Manager उप मुख्य गुणवत्ता Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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DOC NO.: MCF/RBL/QEF/8001


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FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC DD COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	18424/C	TYPE COACH	LWS/DDF
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
Modern Coach Factory Raebareli





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FOR ELECTRICAL ITEMS

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PAGE 2 OF 3

01.	Switch board cabinet Make : SSK On Board Sr no : 2017-06-171 HT Panel Sr no : 2017-10-293	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 : C G POWER.	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

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09.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
11.	Regulated battery charger Make : BHASIN Sr no: 09181450	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : -973	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 : ELECOS	EDTS-328 REV-C	01 set
15.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 25/18/1039	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/16	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

 SSE/EL/QC	 SEE(P)/MCF/RBL
वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण अपरेटिंगका/लातगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	DyCEE/P&P/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr. Electrical Engineer / RCF / RBL / Lucknow

