

DF-95



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/2018-19/683
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	2	2	/	C	-	DATE OF DISPATCH	2	4	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	3	6	-	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)1105 (NPPE) 2)1101 (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	200
		NPP END M/S Manjit techno fab raebareli	200
	Complete	M/S Manjit techno fab raebareli	200
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)	47
		RH SIDE MCF/RBL(V4U CONTRACTOR)	47
4.	End wall	PP END M/s AMIT ENG	-
		NPP END M/s AMIT ENG	-
5.	Roof	MCF/RBL	44
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3979 NPP END 3854

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	06 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	91/89
2.	Insulation			Satisfactory	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिओका 0, रायबरेली (लागू)



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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	3	6	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180690				180689			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-442				MCF/RBL/LS5-472			
Bolster no.	MCF/RBL/LS5-039				MCF/RBL/LS5-417			
Axle No	18 E-8539 RWF		18 E - 5690 RWF		18 G-0897RWF		18 E - 8691 RWF	
Wheel Dia	917.597	917.596	917.599	917.596	917.565	917.526	917.506	917.523
Wheel Disc No	TZ05-17 18591-8PN2	TZ07-17 34115-8QN3	TZ07-17 34575-8RG3	TZ07-17 34154-8QN3	TZ07-17 34578-8RG3	TZ07-17 34153-8QN3	TZ07-17 35918-8QN6	TZ07-17 35908-8QN5
R.B. Nos.	05-18 37061	05-18 28373	05-18 37079	05-18 36725	05-18 27221	04-18 24633	04-18 25248	05-18 36437
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. 18-05-1159	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1066	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1178	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1152

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	1268,1267	1263,1262
2.	Primary outer Spring	CMFSK	04-18 1100-402(109,155,480,477)	04-18 1100-402 (187,242,203,261)
3.	Primary Inner Spring	CMGBD	05-18 1101-57(275,132,385,279)	05-18 1101-57(309,224,192,308)
4.	Primary Damper	KNORR	06-18(24536,24546,24527,24537)	06-18(24539,24533,24526,24538)
5.	Secondary Damper	GEREP	17-2017 301550739	KW 17-2017 301550789
6.	Lateral Damper	GEREP	17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	FAV	H18-(268,339,165,),G18-532	H18(194,176),G18-531,H18-267
8.	Brake Caliper	FAV	K18(756,753,782,783)B	K18(784,781,749,752)B
9.	Brake Disc	FAV	09-18(2183,2182,2252,2251,)D133561-300	09-18(2261,2262,2264,2263)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG		
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	F18-266,G18-366	G18-129,G18-133
17.	Check Valve	FAV	F18-129	G18-047
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	NIPHA	061,0085,073,073	06-18(23,261,105,368)
22.	Control Arm Lower	NIPHA	329,0051,0131,164	06-18(105,0235,0164,009)

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)	D18046B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045541B
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	
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 1,2,4,5	M/s SUKATA CDG	
20.	Body Side Doors 3,6	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 M.K. METAL	
24.	Overhead Water Tank(4X390L)	M/s FABRICATORS INDIA	
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 FITE	NPP-2436,PP-2435
28.	Water purified	M/s PRAG POLYMER(PP),WM JALANDHER (NPP)	PP-2/354,NPP-210
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	

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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 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 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 गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	सहायक अभियंता/गुणवत्ता-1 Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.COM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00


DATE: 18.01.2017

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	18422/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
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-753 HT Panel Sr no : AE/USBC-464	EDTS 333, Rev`01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : VGS	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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FOR ELECTRICAL ITEMS
ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

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09.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
11.	Regulated battery charger Make : BHASIN Sr no: 09181418	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017767	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 : DARSHAN INTERPRISES.	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 24/18/1015	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 08/18	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 DyCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
 गुणवत्ता नियंत्रण
 ३००१०डि०का०/लालगंज/रायबरेली
 S.S.E./Elect-QC/M.C.F./L.J./RBL

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

