



# 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/2018-19/277  
(DEEN DAYALU)

Coach No.				1	8	4	0	6	/	C	-	DATE OF DISPATCH					1	3	-	0	7	-	1	8
RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	3	4	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
- Tare Weight of Coach : 40.66 Tonnes
- 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)1101 (NPPE) 2)1105(PPE)

**5. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/S Manjit techno fab raebareli	PP END 204 NPP END 204
		Complete M/S Manjit techno fab raebareli	
2.	Side wall	M/S V4U CONTRACTOR	RH 86034 LH 86034
3.	End wall	PP M/s Shivalic fastners pvt.ltd. mohali	PP END 86034 NPP END 86034
4.		NPP M/s Shivalic fastners pvt.ltd. mohali	
5.	Roof	M/S MCF	
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3865 NPP END 4002
7.	Buffers	N.A.	

**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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	77/87
2.	Insulation			Satisfactory	

*Deen Dayalu*  
वरिष्ठ निरीक्षक  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)



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**8. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	180658				180657			
Bogie Type	FIAT				FIAT			
Frame no.	AML-33				AML-036			
Bolster no.	MCF/RBL/LS5-120				MCF/RBL/LS5-0131			
Axle No	17 Y- 7359 RWF		17Z-9758 RWF		17 Y-8194 RWF		17 A- - 8027 RWF	
Wheel Dia	917.477	917.507	917.533	917.516	917.484	917.536	917.474	917.521
Wheel Disc No	TZ03-17 13056-70J1	TZ05-17 13050-70J1	TZ03-17 03269-7NL1	TZ03-17 03268-7NL1	TZ03-17 03399-70H5	TZ05-17 13048-70J1	TZ05-17 13049-70J1	TZ03-17 03400-70H5
R.B. Nos.	02-18 13498	02-18 12447	02-18 12935	02-18 15537	02-18 15008	02-18 12519	02-18 15149	02-18 12443
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- 18-05-1107	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1173	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1209	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1176

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	SV	404,648	411,306
2.	Primary outer Spring	CMGBD	04-18 1100-49(235,328,211,207)	04-18 1100-49(183,217,182,57)
3.	Primary Inner Spring	CMGBD	04-18 1101-36 (688,339,636,486)	04-18 1101-36(685,467,700,684)
4.	Primary Damper	IAI	03-18(201768,201967,201848,201565)	03-18(201724,201942,201664,201773)
5.	Secondary Damper	IAI	01-18 (196075,196057)	01-18 (193607,198613)
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	KBI	A(5390,5038,5065,5395)K29	A(5413,5077,5072,5388)K29
8.	Brake Caliper	KBI	A(3948,4084,4085,3949)-29	A(3947,4086,4087,3946)-29
9.	Brake Disc	FAV	05-18(5274,5277,5382,5384)D133561-300	05-18(5336,5357,5230,5383)D133561-300
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Leveling Valve	ESCORT	1805,1805	1805,1805
17.	Check Valve	ESCORT	1805	1805
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	313518-3,081518-3,310518-3,300518-3	310518-2,300518-3,170518-1,020618-2
22.	Control Arm Lower	RVE	080518-2,030518-1,050518-2,03068-3	030618-1,050618-2,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 KBI Faridabad. New Delhi	0693 14/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018D4783
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 1124/29 NPP END 1100/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	
6.	D-coupling arrangement	M/s-ELASTOMER MUMBAI	
7.	Floor board	M/s TWPL MUMBAI	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
10.	UIC Vestibule (PPE)	M/s-ELASTOMER MUMBAI	
11.	UIC Vestibule (NPPE)	M/s-ELASTOMER MUMBAI	
12.	Gangway Bridge mounting(PPE)	M/s Mahaveer matel works Kapurthala	
13.	Gangway Bridge mounting(NPPE)	M/s Mahaveer matel works Kapurthala	
14.	Body Side Window	M/s AGF Kolkata	
15.	Emergency Window	M/s AGF Kolkata	
16.	Hopper Window	M/s Aikon ind.salon H.P	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way gangway ceiling	M/s ACME INDIA NDLS	
19.	Body Side Doors	M/s JVR IND.LDH	
20.	Vestibule door(PPE)	M/s-JBM faridabad	
21.	Vestibule door (NPPE)	M/s-JBM faridabad	
22.	Bio Tank ,	M/s FLASH GORGE VIZAG	
23.	Overhead Water Tank(4X390L)	M/s AMIT ENG. MOHALI	
24.	Bib Cock/Controlled Discharge Tap	M/s ACME INDIA NDLS	
25.	Lavatory Doors	M/s ACME INDIA NDLS	
26.	Fire Extinguisher	M/s A.K.IND.NDLS	NPP-1509,PP-1459
27.	Water purified	M/s PRAG LKO	NPP-2/300,PP-2/314
28.	Seat & Berth	M/s DURABLE IND. PVT.LKO	
29.	Luggage Rack	M/s DURABLE IND. PVT.LKO	
30.	Light Luggage Rack	N/A	

*Deen*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालमल)



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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 &
			Frequency	PERIOD OF TRIAL

**15. WARRANTY:**

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain 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.

वरि०अनु० अभियंता SSE/QC/MCF/RBL रे०डि०का०, रायबरेली (लालगंज)	जी.एस. पाण्डेय AME/QC/MCF/RBL सहायक यंत्रण अभियंता/गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	जोगिंदर सिंह Dy. COM/MCF/RBL उप मुख्य गुणवत्ता प्रबंधक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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DG-102

	<b>Modern Coach Factory Raebareli</b> <b>आधुनिक रेल डिब्बा कारखाना, रायबरेली</b>	DOC NO.: MCF/RBL/QEF/8001
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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			
<b>SHELL/COACH NO</b>	<b>18406/C</b>	<b>TYPE COACH</b>	<b>LWS/DDG</b>
<b>RAILWAY</b>	<b>WCR</b>	<b>DATE OF DESPATCH</b>	
<b>Sr no</b>	<b>Description of test</b>	<b>Remarks</b>	
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**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES**

PAGE 2 OF 3

01.	Switch board cabinet Make : <b>SSK</b> On Board Sr no : <b>2017-10-298</b> HT Panel Sr no : <b>2017-06-170</b>	EDTS 333, Rev`01'Am-1	<b>01</b>
02	Emergency light system for EOG type coaches (AEL), Make : <b>INTRA ELECT.</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
03.	Provision & Mounting of PACIL Assly. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	<b>02</b>
04.	Fitment of Switch Plate Assly (Cabin Side) Make : <b>SSK</b>	EDML 127,Rev-1& DRG NO 4248ALT-a	<b>10</b>
05.	Fitment of Switch Plate Assly (Corridor Side) Make : <b>SSK</b>	EDML 127,Rev-1 & DRG NO 4249 ALT-a	<b>10</b>
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : <b>ELECTROWAVES LTD</b>	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>30</b>
07.	Provision of Cabin, Corridor, doorway and Gangway Lights. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>28</b>
08.	Provision & Mounting of Lavatory Light Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	<b>04</b>

  
**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**





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**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES**

PAGE 3 OF 3

09.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
10	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
11.	Regulated battery charger Make : <b>WAVES</b> Sr no: <b>184467</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
12.	9KVA transformer Make : <b>PANTRONICS</b> Sr no : <b>PAN-17017251</b>	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	<b>01</b>
13.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</b>	As per spec No EDTS 105,Rev`e` Am-3 TYPE-2	<b>01 set</b>
14.	Feeder junction boxes. Make : <b>ISG</b>	EDTS-328 REV-C	<b>01 set</b>
15.	Wheel set earthing equipment. Make : <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
16.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0118044410</b>	M/s : <b>KNORR</b>	<b>01 set</b>
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : <b>SOUTHERN</b> Lug date : <b>04/18</b>	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	<b>01 set</b>
18.	Battery box for LHB coaches. Make : <b>ANANYA</b>	CC 91205	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL DyCEE/P&amp;P/MCF/RBL</b>

वरिष्ठ अनुभाग अभियन्ता  
गुणवत्ता नियंत्रण  
आपरेटिंग/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