



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/2018-19/344
(DEEN DAYALU)

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

- Railway Board's Order No. : 2017/M(C)/142/2, Dated 20.03.2018
- 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)1100(NPPE) 2)1104(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/S N.N.F.P.L. PP END 08 NPP END 08
		Complete	M/S N.N.F.P.L.
2.	Side wall	M/S V4U CONTRACTOR	RH 76191 LH 76191
3.	End wall	PP M/S E.c.blades & tool pvt. Ltd CDG	PP END 76191 NPP END 76191
4.		NPP M/S E.c.blades & tool pvt. Ltd CDG	
5.	Roof	M/S Pennar ind. Ltd patancheru telangana	
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3901 NPP END 3975
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 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	91/88
2.	Insulation			Satisfactory	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

रायबरेली, रायबरेली (जालांग)





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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180651				180652			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/RBL-1791				SCI/RBL-1794			
Bolster no.	MCF/RBL/LS5--0490				MCF/RBL/LS5--0035			
Axle No	17 Y- 8070 RWF		17B -3553 RWF		17 B-3452 RWF		17 Y- - 8102 RWF	
Wheel Dia	917.509	917.533	917.489	917.517	917.484	917.522	917.511	917.546
Wheel Disc No	TZ03-17 0241-7NK6	TZ03-17 07808-70G5	TZ05-18 12134-70K2	TZ05-17 12126--70K2	TZ03-17 07805-70G5	TZ05-17 12136-70K2	TZ03-17 06792-70G0	TZ03-17 06791-70G3
R.B. Nos.	02-18 12319	01-18 10657	02-18 12219	02-18 13638	02-18 13834	02-18 13274	02-18 12835	02-18 13623
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- 18-05-1181	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1097	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1233	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1273

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	KNORR	6183,6182	6177,6181
2.	Primary outer Spring	CMGBD	04-18 1100-44(187,262,260,241)	04-18 1100-44(127,212,111,901)
3.	Primary Inner Spring	CMGBD	04-18 1101-36 (620,655,704,693)	04-18 1101-36(524,731,690,608)
4.	Primary Damper	IAI	03-18(201680,201749,201846,201551)	03-18(201697,201700,121702,201554)
5.	Secondary Damper	IAI	01-18 (198685,198688)	01-18 (128603,198625)
6.	Lateral Damper	IAI/GREEP	03-18 202186	301550559
7.	Brake Cylinder	KBI	A(5500,4891,4907,5502)K29	A(5400,5108,5103,5338)K29
8.	Brake Caliper	KBI	A(4026,3977,3976,4025)-29	A(3909,4113,4114,3907)-29
9.	Brake Disc	FAV	03-18(2839,2840,2852,2851)D133561-300	03-18(2863,2862,5411,5410)D133561-300
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Leveling Valve	ESCORT/ FAIVELEY	1805,1805	204,206
17.	Check Valve	ESCORT /FAIVELEY	1806	017
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	300518-3,300518-3,190518-2,170518-2	170518-2,300518-3,300518-3,300518-3
22.	Control Arm Lower	RVE	030618-1,030618-1,030618-1,200518-2	030518,030618,RVE,030618-1

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	PASS18F3136
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018F5354
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 1113/29 NPP END 1074/29
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, GHAZIABAD	
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 COMPETANT ENG, JALANDHAR	
13.	Gangway Bridge mounting(NPPE)	M/s COMPETANT ENG,JALANDHAR	
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, INDUSTRIES ,LDH	
20.	Vestibule door(PPE)	M/s-HANSPAL COACH PRODUCT,KXH	
21.	Vestibule door (NPPE)	M/s-HANSPAL COACH PRODUCT,KXH	
22.	Bio Tank 1,2,3	M/s FLASH FORGE (P) LTD, VIZAG	
23.	Bio Tank 4	M/s FLASH FORGE (P) LTD, VIZAG	
24.	Overhead Water Tank(1X390L) 4	M/s AMIT ENG. MOHALI	
25.	Overhead Water Tank(3X390L) 1,2,3	M/s AMIT ENG. MOHALI	
26.	Bib Cock/Controlled Discharge Tap	M/s ACME INDIA NDLS	
27.	Lavatory Doors	M/s ACME INDIA NDLS	
28.	Fire Extinguisher	M/s A.K.IND.NDLS	NPP-1478,PP-1504
29.	Water purified	M/s PRAG LKO	NPP-2/324,PP-2/326
30.	Seat & Berth	M/s DURABLE IND. PVT.LKO	
31.	Luggage Rack	M/s DURABLE IND. PVT.LKO	
32.	Light Luggage Rack	N/A	

वरिष्ठ निरीक्षक/आभियंता
SSE/QC/MCF/RBL
मुख्य निरीक्षक विभाग
रेल डिब्बा, रायबरेली (लालगंज)



MCF/RBL



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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, 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 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.

वरिष्ठ अभियंता SSE/QC/MCF/RBL	जी.एस. माण्डेय AME/QC/MCF/RBL	जोगिन्दर सिंह Dy.QM/MCF/RBL
रेजिडेंट कार, रायबरेली (लालगंज)	आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

04-88



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	18413/C	TYPE COACH	LWS/DDG
RAILWAY	WCR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
2.	LIGHTS,LAP 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

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PAGE 2 OF 3

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-722 HT Panel Sr no : AE/USBC-682	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTRA ELECT.	EDTS 151,Rev -c Am-1 & 2	04
03.	Fitment of Passenger Alarm cum indication light (PACIL). Make : DR AUTO	As per drg no. LW 76005,Alt -e 02 nos	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 : ELECTROWAVES,IMT	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
07.	Fitment of Fluorescent light fitting for LHB type coaches. Make : RT VISION	LW 76033,Alt`c,	04
08.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast. Make : DEW	CC 76213,Alt`d'.	26
09.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast. Make : FLOLITE ELECT.	CC 76216, Alt `c'.	02

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC GS COACHES

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10.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	26
11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: 184459	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016595	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
16.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
17.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118145341	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 12/17	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL

वरिष्ठ अनुमान अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / रायबरेली
S.S.E./EL-QC/M.C.F./RBL

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