



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/2017-18/ 633
(DEEN DAYALU)

Coach No.		1	7	4	4	0	/	C	-	DATE OF DISPATCH				1	2	-	0	3	-	1	8				
RLY	S	W	R	Type	L	W	S	-	-	-	Shell No.		7	6	0	7	5	-	2	0	1	7	-	1	8

- Railway Board's Order No. : 2016/M(C)/142/2, Dated 01.01.2017
- 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)1103 (NPPE) 2)1100 (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	98	NPP END	98	
		Complete	M/S Manjit techno fab raebareli					
2.	Side wall		M/s-V4U CONTRACTOR	RH	76075	LH	76075	
3.	End wall	PP	M/S E.c.blades &tool pvt. Ltd CDG	PP END	76075	NPP END	76075	
4.		NPP	M/S E.c.blades &tool pvt. Ltd CDG					
5.	Roof		M/S MCF/ CONTRACTOR					
6.	Centre Buffer Coupler		M/S Escorts ltd railway equipment FBD	PP END	1437	NPP END	1443	
7.	Buffers		N.A.					

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> Reduce pressure of BP from 5.0 to 3.4 kg/cm². Max. pressure in BC All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	7 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	77/90
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	170292				170291			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1349				SCI/FM-1348			
Bolster no.	AAL/MCF-024				VS-63			
Axle No	17B-9701 RWF		17A-8405 RWF		17B-8742 RWF		17B-9649 RWF	
Wheel Dia	917.494	917.469	917.441	917.436	917.462	917.500	917.489	917.497
Wheel Disc No	TZ05-17 17936-70MO	TZ05-17 15796-7PK6	TZ05-17 17967-70M1	TZ05-17 17968-7PK7	TZ05-17 17965-7PK7	TZ05-17 17914-70MO	TZ05-17 12540-70K2	TZ05-17 17933-70P8
R.B. Nos.	09-17 11774	09-17 12960	09-17 12000	09-17 11745	09-17 11757	09-17 12705	09-17 13320	09-17 11794
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	ACPL09-17- 3573	ACPL 09-17- 3572	ACPL 09-17- 3574	ACPL 10-17- 3642

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GABRIEL	1964,1872	1963,1871
2.	Primary outer Spring	CMGBD	05-17-1100(42-601,39-619,49-587,49-547)	05-17-1100(46-620,49-546,48-535,42-593)
3.	Primary Inner Spring	CMGBD	08-17-1101-96-119,08-17-1101-93(20,140,15)	08-17-1101-93-242, 08-17-1101-96-77, 08-17-1101-93(82,110)
4.	Primary Damper	KNORR	09-17 (11977,11970,11345,11972)	09-17 (11368,11349,11351,11356)
5.	Secondary Damper	IAI	02-17(155207,155245)	02-17-(175201,175225)
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	FAV	A17-347, A18-305, A18-249, A18-346,	A18-259, B18-223, A18-440, A18-260,
8.	Brake Caliper	FAV	B18145B, B18143B, B18144B, B18146B,	B18225B, A18438B, B18224B, B18226B,
9.	Brake Disc	KBI	24119148-0010-52-17, 24119146-0006-52-17, 24119148-0015-52-17, 24119148-0014-52-17,	24119146-0030-52-17, 24119146-0034-52-17, 24119146-0024-52-17, 24119144-0007-52-17,
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI 10-17		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	2017,2017	1801, 1801
17.	Check Valve	ESCORT	2017	1801
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		

Signature of SSE/Bogie/QC



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RLY	S	W	R	Type	L	W	S	-	-	-	Shell No.	7	6	0	7	5	-	2	0	1	7	-	1	8
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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)	B18014B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18215517B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 851/29 NPP END 859/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s A.K. ENT. KOLKATA	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
10.	UIC Vestibule (PPE)	M/s-Sunrest ind.kolkata	
11.	UIC Vestibule (NPPE)	M/s-Sunrest 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 Century poly ind.ltd. vadodara	
15.	Emergency Window	M/s Century poly ind.ltd. vadodara	
16.	Hopper Window	M/s shatabdi safety glass vadodara	
17.	Roof ceiling	M/s Century poly ind.ltd. vadodara	
18.	Door way gangway ceiling	M/s Century poly ind.ltd. vadodara	
19.	Body Side Doors	M/s sukata CDG	
20.	Vestibule door(PPE)	M/s KALSI LDH	
21.	Vestibule door (NPPE)	M/s KALSI LDH	
22.	Bio Tank	M/s Rasandik eng. ltd	
23.	Overhead Water Tank(4X390L)	M/s Rubicon STEEL MOHALI	
24.	Bib Cock/Controlled Discharge Tap	M/s JAQUAR PVT.LTD. ALWAR RAJ.	
25.	Lavatory Doors	M/s ACME INDIA	
26.	Fire Extinguisher	M/s EXCELL	NPP-64558,PP-64578
27.	Water purified	M/s Prag Polymer, Lucknow	NPP-2/090,PP-2/093
28.	Seat & Berth	M/s Century poly ind.ltd. vadodara	
29.	Luggage Rack	M/s Century poly ind.ltd. vadodara	
30.	Light Luggage Rack	M/s Century poly ind.ltd. vadodara	

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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.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

रेडिओ, रायबरेली (लालगंज)

जी.एस. पाण्डेय
G.S. Pandey
सहायक यांत्रिक अभियंता / गुणवत्ता
Assistant Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly

जीगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
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Modern Coach Factory, Raebareilly



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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	17440/C	TYPE COACH	LWS DF
RAILWAY	SWR	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

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PAGE 2 OF 3

01.	Switch board cabinet Make : AMIT On Board Sr no : AE/USBC-578 HT Panel Sr no : AE/USBC-588	EDTS 333, Rev`01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : MAAVE	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: DR AUTO	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 : LIGHT Engg. Corp.	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: RT VISION	As per RDSO/PE/SPEC/TL- 0091(REV-1) TYPE B-1	28
08.	Provision & Mounting of Lavatory Light Make: K-LITE	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-D & Drg no. LW 76092.	04

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FOR ELECTRICAL ITEMS

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09.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
11.	Regulated battery charger Make : AAL Sr no: BCH061710276	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016658	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
14.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : DARSHAN	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 36/17/1022	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : RAJ Reg date : 1/17	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	SEE(P)/MCF/RBL
DyCEE/P&P/MCF/RBL	DyCEE/P&P/MCF/RBL

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गुणवत्ता नियंत्रण
लखनऊ/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