



Modern Coach Factory Raebareilly

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/ 630
(DEEN DAYALU)

Coach No.	1	7	4	4	2	/	C	-	DATE OF DISPATCH	1	1	-	0	3	-	1	8
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RLY	S	W	R	Type	L	W	S	-	-	-	Shell No.	7	6	0	8	4	-	2	0	1	7	-	1	8
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- 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)1095 (NPPE) 2)1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S E.c.blades &tool pvt. Ltd CDG	PP END	183	NPP END	183
		Complete	M/S E.c.blades &tool pvt. Ltd CDG				
2.	Side wall		M/s-V4U(CONTRACTOR)	RH	76084	LH	76084
3.	End wall	PP	M/S E.c.blades &tool pvt. Ltd CDG	PP END	76084	NPP END	76084
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	2363	NPP END	2342
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	90/88
2.	Insulation			Satisfactory	


SSE/QC/MCF/RBL

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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	171037				171038			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-1357				SCI-1509			
Bolster no.	MCF/RBL-0396				MCF/RBL-0349			
Axle No	17Y-8547		17B-8877		17B-9761		17B-8249	
Wheel Dia	917.446	917.500	917.437	917.500	917.523	917.481	917.572	917.532
Wheel Disc No	TZ05-17 12271-70H7	TZ05-17 20519-70KO	TZ05-17 12273-70H7	TZ05-17 12272-70H7	TZ05-17 15421-70P5	TZ05-17 12276-70H7	TZ05-17 17892-70L3	TZ05-17 15473-70L4
R.B. Nos.	09-17-12149	09-17 12143	09-17 12744	09-17 11715	09-17-11962	09-17 13366	09-17 13384	09-17 12930
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.	ACPL 10-17- 3619	ACPL 10-17- 3630	ACPL 10-17- 3629	ACPL 10-17- 3631

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	189,191	359,192
2.	Primary outer Spring	CMGBD	05-17(952,1016,1040,954)	09-17(960,1019,991,958)
3.	Primary Inner Spring	CMGBD	08-17(86,148,466,501)	08-17(83,300,470,167)
4.	Primary Damper	KNORR	09-17 (11978,11605,11572,11989)	11592,11954,11585,11963
5.	Secondary Damper	GABRIEL	04-17(932,933)	04-17(929,928)
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	FAV	A18-286, A18-350, A18-348, A18-284,	A18-369, A18-364, A18-362, A18-368,
8.	Brake Caliper	FAV	B18109B, B18108B, B18107B, B18110B,	B18094B, B18092B, B18091B, B18093B,
9.	Brake Disc	KBI	24119145-0022-52-17, 24119145-0021-52-17, 24119145-0034-52-17, 24119141-0031-52-17,	24119145-0020-52-17, 24119146-0023-52-17, 24119146-0008-52-17, 24119146-0005-52-17,
10.	Ball Joint Control Arm	BONY		
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	GMT/S-BLOC		
16.	Leveling Valve	ESCORT	1801,1801	1801,1801
17.	Check Valve	ESCORT	1801	1801
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/BONY		
20.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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11. TRACEABILITY OF FURNISHING ITEMS:

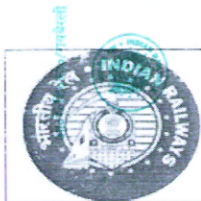
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	A17078B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17115578B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 863/29 NPP END 795/29
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.B. Ent. Kolkata	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
10.	UIC Vestibule (PPE)	M/s SSIPL Mumbai	
11.	UIC Vestibule (NPPE)	M/s SSIPL Mumbai	
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 polymer ind.vadodara	
15.	Emergency Window	M/s Century polymer ind.vadodara	
16.	Hopper Window	M/s Shatabdi safety glass .vadodara	
17.	Roof ceiling	M/s Century polymer ind.vadodara	
18.	Door way gangway ceiling	M/s Century polymer ind.vadodara	
19.	Body Side Doors 1,3,6	M/s JBM Faridabad	
20.	Body Side Doors 2,4,5	M/s SUKATA CDG	
21.	Vestibule door(PPE)	M/s Hanspal coach products KXH	
22.	Vestibule door (NPPE)	M/s Hanspal coach products KXH	
23.	Bio Tank	M/s Rasandik eng. ltd	
24.	Overhead Water Tank(4X390L)	M/s Rubicon steel MOHALI	
25.	Bib Cock/Controlled Discharge Tap	M/s JAQUAR LTD.ALWAR	
26.	Lavatory Doors	M/s Century polymer ind.vadodara	
27.	Fire Extinguisher	M/s Firego HARYANA	NPP-4986,PP-5001
28.	Water purified	M/s Prag Polymer, Lucknow	NPP-2/104,PP-2/068
29.	Seat & Berth	M/s Century polymer ind.vadodara	
30.	Luggage Rack	M/s Century polymer ind.vadodara	
31.	Light Luggage Rack	M/s Century polymer ind.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.

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रेडिंकॉ, रायबरेली (लालगंज)

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

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
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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	17442/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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PAGE 2 OF 3

01.	Switch board cabinet Make : AMIT On Board Sr no : AE/USBC-593 HT Panel Sr no : AE/USBC-599	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 : KAPSONS	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**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 : SSK	LW 71002,Alt-F	01
11.	Regulated battery charger Make : AAL Sr no: BCH061710284	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016045	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 : ELECOS	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 : 44/17/1184	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : A RAJA Lug date : 04/17	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	

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गुणवत्ता नियंत्रण
लखनऊ/लालगंज/रायबरेली
Elect-QC/M.C.F./LLJ/RBL

SEE(P)/MCF/RBL
DyCEE/P&P/MCF/RBL

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

