



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/ 648
(DEEN DAYALU)

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

- Railway Board's Order No. : 2017/M(C)/142/2, Dated 21.09.2017
- 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)1096 (NPPE) 2)1100(PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS.							
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Manjit techno fab raebareli	PP END	91	NPP END	91
		Complete	M/S Manjit techno fab raebareli				
2.	Side wall		M/S Sri Mahadev	RH	76070	LH	76070
3.	End wall	PP	M/s KEPL/Punchkula	PP END	76070	NPP END	76070
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	2669	NPP END	2644
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	8 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	79/89
2.	Insulation			Satisfactory	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

रेडि०का०, रायबरेली (लालगंज)



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RLY	N	R	-	Type	L	W	S	-	-	Shell No.	7	6	0	7	0	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	170273				170274			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1346				SCI/FM-1347			
Bolster no.	MCF/RBL/LS-0381				VS-66			
Axle No	17Y-8568		17Y-8583		17Y- 8466		17Y-2663	
Wheel Dia	917.516	917.423	917.553	917.495	917.552	917.475	917.537	917.473
Wheel Disc No	TZ05-17 16259-7PK5	TZ05-17 16258-7PK5	TZ05-17 16257-7PK5	TZ06-17 22545-7PQ5	TZ06-17 22544-7PQ5	TZ06-17 22543-7PQ5	TZ06-17 22537-7PQ	TZ07-17 24195-7Q44
R.B. Nos.	09-17-11720	09-17 11997	09-17 12627	07-17 08048	09-17 12115	07-17 08061	09-17 11988	07-17 06293
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.	ASHIKA COMMERCIAL PVT.LTD. 10-17 - 3632	ASHIKA COMMERCIAL PVT.LTD. 09-17 3591	ASHIKA COMMERCIAL PVT.LTD. 10-17 3635	ASHIKA COMMERCIAL PVT.LTD. 10-17 3605

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	200,217	212,213
2.	Primary outer Spring	CMGBD	06-17 1100-64(375,406,360,235)	06-171100 -64(392,328,365,390)
3.	Primary Inner Spring	CMFSK	06-17 1101 232 317,03-17 1101-306 470 06-17 1101 232(299,264)	03-171101-306(404,121,213) 06-17 1101-232-295
4.	Primary Damper	KNORR	09-17 (11327,12185,11237,12155)	09-17(12188,12150,12156,12151)
5.	Secondary Damper	IAI	02-17(175257,175248)	02-17(175249,175278)
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	KBI	9363K29,9275K29,9502K29,9777K29	9599K29,9263K29,9288K29,9582K29,
8.	Brake Caliper	KBI	8656-29,8713-29,8857-29,8789-29	8635-29,8694-29,8691-29,8630-29
9.	Brake Disc	KBI	24119144 0020-52/17,24119150 0029-52/17 24119151 0006-52/17,24119151 0007-52/17	24119150 0002-52/17,24119150 0032-52/17, 24119146 0015-52/17,24119146 0016-52/17
10.	Ball Joint Control Arm	MB/BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	J110-17		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	AR/GMT		
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/AR/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	251217-2,121217-2,231217-2,111217-2	151217-2,291217-2,281217-1,111217-1
22.	Control Arm Lower	RVE	121217-4,121217-4,111217-4,111217-4	261217-2,241217-2,-,111217-4

Signature of SSE/Bogie/QC



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RLY	N	R	-	Type	L	W	S	-	-	-	Shell No.	7	6	0	7	0	-	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 KBI Faridabad. New Delhi	PASS 17L2879
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2017L3920
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 689/29 NPP END 704/29
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	M/s Oasis Fabrication Jagdhari	
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 AGF Pvt. Ltd, Kolkata	
15.	Emergency Window	M/s AGF Pvt. Ltd, Kolkata	
16.	Hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
17.	Roof ceiling	M/s ACME india NDLS	
18.	Door way gangway ceiling	M/s ACME india NDLS	
19.	Body Side Doors	M/s JBM Faridabad	
20.	Vestibule door(PPE)	M/s KALSI LDH	
21.	Vestibule door (NPPE)	M/s KALSI LDH	
22.	Bio Tank	M/s Oriental veneer products	
23.	Overhead Water Tank(4X390L)	M/s Rubicon Fab KXH	
24.	Bib Cock/Controlled Discharge Tap	M/s ACME india NDLS	
25.	Lavatory Doors	M/s ACME india NDLS	
26.	Fire Extinguisher	M/s FIREGO HARYAAN	NPP-4993,PP-5122
27.	Water purified	M/s Parag Polymer, Lucknow	NPP-2/132,PP-2/145
28.	Seat & Berth	M/s Oriental veneer products	
29.	Luggage Rack	M/s Oriental veneer products	
30.	Light Luggage Rack	M/s Nitin home DELHI	

SSSE/QC/MCF/RBL

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रेडि0का0, रायबरेली (लालगंज)



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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 & PERIOD OF TRIAL
			Frequency	

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.

 SSE/QC/MCF/RBL वरिष्ठ अभियंता गुणवत्ता विभाग रेलडि०का०, रायबरेली (लालमंज)	 AME/QC/MCF/RBL सहायक अभियंता/गुणवत्ता-1 Assistant Mechanical Engineer, Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. Chief Quality Manager उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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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	173504/C	TYPE COACH	LWS DDG
RAILWAY	NR	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
Modern Coach Factory Raebareli



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ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : SSK On Board Sr no : 2017-10-242 HT Panel Sr no : 2017-10-265	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: 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 : CONCORD	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: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-D & Drg no. LW 76092.	04


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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 : AUTOMETER Sr no: BCH-061706069	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-783	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 : NEC	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : C&C,DARSHAN	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 01174233890	M/s : KNORR	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make: SOUTHERN Lug date : 12/17	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
आधुनिक डिब्बा / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/REL

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