



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/2018-19/324
(DEEN DAYALU)

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

1. Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
2. Tare Weight of Coach : 40.66 Tonnes
3. 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)1098 (NPPE) 2)1095(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/S Neera chandigarh	PP END 02 NPP END 02
		Complete M/S Neera chandigarh	
2.	Side wall	M/S V4U CONTRACTOR	RH 86017 LH 86017
3.	End wall	PP M/s KEPL/Punchkula	PP END 86017 NPP END 86017
4.		NPP M/s KEPL/Punchkula	
5.	Roof	M/S MCF/12	
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3956 NPP END 3839
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	75/91
2.	Insulation			Satisfactory	

Deen Dayalu
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालमंर)





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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180645				180646			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/RBL-1790				SCI/RBL-1787			
Bolster no.	RBL/LS5--235				VS 44			
Axle No	17 W- 3297 RWF		17W-3462 RWF		17 W-7883 RWF		17 W- - 3641 RWF	
Wheel Dia	917.542	917.512	917.515	917.479	917.53	917.566	917.517	917.486
Wheel Disc No	TZ03-17 03816-70H3	TZ03-17 03815-70H3	TZ03-17 03514-7NK6	TZ03-17 03818-7NK9	TZ03-17 00747-7NK2	TZ03-17 03663-7NN5	TZ03-17 03664-7NN5	TZ03-17 03665-7NN5
R.B. Nos.	02-18 13333	02-18 12112	02-18 13347	02-18 12124	02-18 12293	12-17 25955	02-18 15147	12-17 25673
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- 18-05-1105	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1120	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1094	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1128

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	KNORR	6086,6084	6088,6081
2.	Primary outer Spring	CMGBD	04-18 1100-49(227,94,89,100)	04-18 1100-49(19,87,6,27)
3.	Primary Inner Spring	CMGBD	04-18 1101-36 (744,635,738,739)	04-18 1101-36(256,740,705,741)
4.	Primary Damper	IAI	03-18(221622,201793,201720,201838)	03-18(201909,201649,201954,201964)
5.	Secondary Damper	IAI	03-18 202475,03-18 198679	03-18 (202536,202516)
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	KBI	A(5323,3969,4948,5324)K29	A(35326,4991,4968,5330)K29
8.	Brake Caliper	KBI	A(3851,3944,3943,3850)-29	A(3852,3945,3942,3853)-29
9.	Brake Disc	FAV	05-18(5048,5049,5063,5062)D133561-300	03-18(5046,5065,4877,4876)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	1805,1805	1805,1805
17.	Check Valve	ESCORT	1806	1806
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	240518-2,240518-2,310518-3,300518-3	RVE,RVE,300518-3,300518-3
22.	Control Arm Lower	RVE	030518-2,RVE,020518-2,020518-2	RVE,RVE,290518-2,029518-2

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	PASS18F3124
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018F5295
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 1172/29 NPP END 1130/29
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-Suncrest ind.kolkata	
11.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
12.	Gangway Bridge mounting(PPE)	M/s COMPETENT ENG.JALANDHAR	
13.	Gangway Bridge mounting(NPPE)	M/s COMPETENT 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 IND.LDH	
20.	Vestibule door(PPE)	M/s Hanspal coach products KXH	
21.	Vestibule door (NPPE)	M/s Hanspal coach products KXH	
22.	Bio Tank ,	M/s FLASH GORGE VIZAG	
23.	Overhead Water Tank(1X390L) 3	M/s RAIL FAB KXH	
24.	Overhead Water Tank(3X390L) 1,2,4	M/s AMIT ENG. MOHALI	
25.	Bib Cock/Controlled Discharge Tap	M/s ACME INDIA NDLS	
26.	Lavatory Doors	M/s ACME INDIA NDLS	
27.	Fire Extinguisher	M/s A.K.IND.NDLS	NPP-1572,PP-1432
28.	Water purified	M/s PRAG LKO	NPP-2/312,PP-2/350
29.	Seat & Berth	M/s DURABLE IND. PVT.LKO	
30.	Luggage Rack	M/s DURABLE IND. PVT.LKO	
31.	Light Luggage Rack	N/A	

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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.

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

गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

जी.एस. पाण्डेय
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
Modern Coach Factory, Raebareli

MCF/RBL



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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	18411/C	TYPE COACH	LWS/DDG
RAILWAY	WCR	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 : AMIT ENGG. On Board Sr no : AE/USBC-727 HT Panel Sr no : AE/USBC-709	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.	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,IMT, ELECTROWAVES LTD	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: 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 : INTEG	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: 184427	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016605	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 : ISG	EDTS-328 REV-C	01 set
15.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118205553	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 : 11/17	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

परिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आउटरीडिंग/लालगंज/रायबरेली
S.S.E/Elect-~~CCM~~C.F./LLJ/RBL

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