

09-71



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/2018-19/278
(DEEN DAYALU)

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

- Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
- 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)1105 (NPPE) 2)1105 (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 192 NPP END 192
		Complete M/S Manjit techno fab raebareli	
2.	Side wall	M/S V4U CONTRACTOR	RH 76210 LH 76210
3.	End wall	PP M/S Neera chandigarh	PP END 76210 NPP END 76210
4.		NPP M/S Neera chandigarh	
5.	Roof	M/S MCF/145	
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3329 NPP END 3325
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	08 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> Exhaust BP @ 0.1 kg/cm²/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	78/87
2.	Insulation			Satisfactory	

Deen Dayalu
वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेलवे, रायबरेली (उत्तर प्रदेश)



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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180632				180631			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-11				MCF/RBL/LS5-147			
Bolster no.	MCF/RBL/LS5-492				MCF/RBL/LS5-493			
Axle No	C-9838 RWF		C-3999RWF		C-4807 RWF		C-4468 RWF	
Wheel Dia	917.023	917.031	917.32	917.42	917.20	917.90	917.38	917.38
Wheel Disc No	TZ07-17 244181-70J3	TZ06-17 22528-70L2	TZ05-17 13727-70L1	TZ05-17 12049-70K2	TZ05-17 12052-70K2	TZ07-17 25144-7RG8	TZ05-17 13729-70L1	TZ05-17 15777-7PK7
R.B. Nos.	10-17 15705	05-17 57400	10-17 17214	05-17 57426	10-17 15706	05-17 57393	10-17 17190	05-17 44086
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- 18-05-1257	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1258	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1224	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1247

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	SV	097,305	145,88
2.	Primary outer Spring	CMGBD	04-18 1100-49(14,31,40,32)	04-18 1100-45(55,27,17,61)
3.	Primary Inner Spring	CMGBD	04-18 1101-36 (202,32,16,10)	04-18 1101-36(117,2,73,12)
4.	Primary Damper	KNORR	12-17(13452,13192,13200,13201)	12-17(13202,13461,13190,13459)
5.	Secondary Damper	IAI	01-18 (198641,198604)	01-18 (198644,198648)
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	KBI	A(5348,5018,4995,5321)K29	A(5381,4590,4970,5372)K29
8.	Brake Caliper	KBI	A(3901,4047,4007,3849)-29	A(3889,3999,3996,3888)-29
9.	Brake Disc	FAV	12-17(7828,7869,7817,8030)D133561-300	11-17 7019,12-17(7853,7876,7877)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SF		
13.	Traction lever make	JIO3-18		
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	1805	1805
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	090518-1,070518-1,080518-2,RVE	RVE070518-2,180518-2, RVE
22.	Control Arm Lower	RVE	070518-2,RVE,100518-2,130518-2	070518-2,090518-2,130518-2,050518-1

Signature of SSE/Bogie/QC



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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	7	6	2	1	0	-	2	0	1	8	-	1	9
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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	0732 16/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018D4793
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END NPP END
			1111/29 1158/29
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 Mahaveer matel works Kapurthala	
13.	Gangway Bridge mounting(NPPE)	M/s Mahaveer matel works Kapurthala	
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-JBM faridabad	
21.	Vestibule door (NPPE)	M/s-JBM faridabad	
22.	Bio Tank ,	M/s FLASH GORGE VIZAG	
23.	Overhead Water Tank(4X390L)	M/s AMIT ENG. MOHALI	
24.	Bib Cock/Controlled Discharge Tap	M/s ACME INDIA NDLS	
25.	Lavatory Doors	M/s ACME INDIA NDLS	
26.	Fire Extinguisher	M/s A.K.IND.NDLS	NPP-1479,PP-1393
27.	Water purified	M/s PRAG LKO	NPP-2/299,PP-2/345
28.	Seat & Berth	M/s GANDHI SAFE & ALLIED JALANDHAR	
29.	Luggage Rack	M/s GANDHI SAFE & ALLIED JALANDHAR	
30.	Light Luggage Rack	N/A	

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SSE/QC/MCF/RBL
वरिष्ठ अनुसंधान अभियंता

गुणवत्ता विभाग
रेडिओग्रॉ, 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 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/OC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली	 AME/OC/MCF/RBL Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. Chief Quality Manager 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	18407/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 : SSK On Board Sr no : 2017-06-139 HT Panel Sr no : 2017-10-285	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 : 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: RT VISION	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 : INTECH	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INTECH	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: 184418	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-17017279	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 : 0118094848	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 : 04/18	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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आधुनिक रेल डिब्बा कारखाना / 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