



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/808
(DEEN DAYALU)

RLY	W	R	-	Coach No.	1	7	4	0	9	5	/	C	DATE OF DISPATCH	2	7	-	1	1	-	1	8
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DISPATCH TO	Sr.DME/ADI	Type	L	W	S	-	-	Shell No.	8	6	0	4	1	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2016/M(C)/142/2, Dated 28.06.2017
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)1099(NPPE) 2)1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S Manjit techno fab raebareli
		NPP END	M/S Manjit techno fab raebareli
	Complete	M/S Trident components pvt.ltd.CNB	206
2.	Lav.side wall	M/S JSL COMP	LAV.1 - LAV.2 -
		M/S JSL COMP	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(V4U CONTRACTOR)	23
		RH SIDE MCF/RBL(V4U CONTRACTOR)	23
4.	End wall	PP END M/S Neera chandigarh	-
		NPP END M/S Neera chandigarh	-
5.	Roof	MCF/RBL	49
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 9296 NPP END 9242

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	09 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	89/87
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिंकड, रायबरेली (लालगंज)



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RLY	W	R		Type	L	W	S	-	-	-	Shell No.	8	6	0	4	1	-	-	-	-	-	

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	181702				181701			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1941				MCF/RBL/LS5-0471			
Bolster no.	AMIT-135				AMIT-01			
Axle No	18 E- 4253 RWF		18 E - 8258 RWF		18 E- 8723 RWF		18 E - 8552 RWF	
Wheel Dia	917.487	917.596	917.479	917.574	917.544	917.539	917.526	917.504
Wheel Disc No	TZ06-18 29767-8QP1	TZ07-18 32675-8QP5	TZ07-18 32674-8QM2	TZ06-18 29766-8QP1	TZ06-18 29209-8QM9	TZ06-18 29208-8QN5	TZ06-18 29765-8QP1	TZ06-18 29736-8QP1
R.B. Nos.	07-18 16344	07-18 14338	07-18 14403	07-18 13665	06-18 11423	06-18 11658	06-18 11348	06-18 11574
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.	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1057	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1075	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1177	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1188

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GREEP	1751,1099	1749,1755
2.	Primary outer Spring	CMGBD	05-17 1100-(39-487,49-702,49-723,46-804)	05-17 1101 (42-362,39-400,39-73,39-162)
3.	Primary Inner Spring	CMGBD	03-18 1101(32-2427,31-2425,31-2902,31-2877)	05-18 1101 (57-1116,57-938,56-1121,56-958)
4.	Primary Damper	KNORR/IAI	05-18 20703,06-18 23636,05-18 20719,06-18 23630	06-18(23633,23634,23640,23646)
5.	Secondary Damper	GEREP	KW 17-2017 301550559	KW 16-2017 301550739
6.	Lateral Damper	GEREP	KW 16-2018 301550739	KW 17-2017 301550559
7.	Brake Cylinder	FAV	G18(348,429,410,347)	G18-(097,380,377,110)
8.	Brake Caliper	FAV	H18(056,1054,1053,1053)B	K18(911,909,910,912)B
9.	Brake Disc	FAV	24158708 0018-35/18,24158709 0006-35/18 24158709 0005-35/18,24158709 0015-35/18	24158718 0004-37/18,24158718 0005-37/18 24158718 0009-37/18,24158718 0010-37/18
10.	Ball Joint Control Arm	AR/GMT		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	S-BLOC		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	FAV	G18135,G18-177	G18-210,G18-160
17.	Check Valve	FAV	F18-151	G18-084
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	130918-2,110918-1,130918-1,RVE	RVE,110918-1,070918-1,090918-3
22.	Control Arm Lower	RVE	070918-2,180918-4,180918-3,RVE	RVE,040918-1,070918-2,150918-1

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 Escorts ltd railway equipment FBD	K18041B
2.	Distribution valve	M/S Escorts ltd railway equipment FBD	18095541B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/S Escorts ltd railway equipment FBD	PP END 18080036 NPP END 18080043
5.	Foot Step	M/s Super spark pvt.ltd. faridabad	
6.	D-coupling arrangement	M/s Premier polyfilm, New Delhi	
7.	Floor board	M/s TWPL MUMBAI	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
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 Rakesh iron store KXH	
13.	Gangway Bridge mounting(NPPE)	M/s Rakesh iron store KXH	
14.	Body Side Window	M/s KINECO LTD GOA	
15.	Emergency Window	M/s KINECO LTD GOA	
16.	Hopper Window	M/s KINECO LTD GOA	
17.	Roof ceiling	M/s KINECO LTD GOA	
18.	Door way gangway ceiling	M/s KINECO LTD GOA	
19.	Body Side Doors 2,3,4,5	M/s SUKATA CDG	
20.	Body Side Doors 1,6	M/s JBM FARIDABAD	
21.	Vestibule door(PPE)	M/s JBM FARIDABAD	
22.	Vestibule door (NPPE)	M/s HANSPAL KXH	
23.	Bio Tank	M/s OMEX AUTO LTD	
24.	Overhead Water Tank(4X390L)	M/s FABRICATORS INDIA	
25.	Bib Cock/Controlled Discharge Tap	M/s Jaguar ltd. ALWAR	
26.	Lavatory Doors	M/s KINECO LTD GOA	
27.	Fire Extinguisher	M/s FIRE FITE	NPP-2515,PP-2590
28.	Water purified	M/s WM JALANDHER	PP-055,NPP-122
29.	Seat & Berth	M/s KINECO LTD GOA	
30.	Luggage Rack	M/s KINECO LTD GOA	
31.	Light Luggage Rack	M/s KINECO LTD GOA	

Deen Dayalu
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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, 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
रेडि0का0, रायबरेली (लालगंज)

सहायक यांत्रिक अभियन्ता (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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
DATE: 18.01.2017

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		174095/C	TYPE COACH	LWS/DF
RAILWAY		WR	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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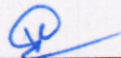
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : SSK On Board Sr no : 2018-09-041 HT Panel Sr no : 2018-09-019	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : CONCORD	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: KAVERI	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 : IMT CABLES	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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PAGE 3 OF 3

09.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
11.	Regulated battery charger Make : SIGNOTRON Sr no: 09180594	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : -1521	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 : NIL	EDTS-328 REV-C	01 set
15.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 25/18/1061	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 01/18	RDSO/pe/spec/ac-0009 rev- 1-2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	SEE(P)/MCF/RBL DyCEE/P&P/MCF/RBL

गुणवत्ता नियंत्रण
अपरेंटिडिफिकेशन / 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