



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 (DEEN DAYALU)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1602

RLY	SWR	COACH NO	201583/C	DATE OF DISPATCH	12-Feb-20
Type	LWS	Shell No.	96207	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-328

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-16-01-2020
2. TARE WEIGHT OF COACH : 40.66 Tonnes
3. Carrying Capacity : (a) Seating: 100 (c) Luggage: NIL

4. Special feature:

S NO	DESCRIPTION	MAKE/SUPPLIER
A	Cushion transverse side luggage rack which can serve as seat during rush	M/S-H.F GLASS WORKS VADODRA
B	Honey comb partition frame.	M/S-H.F GLASS WORKS VADODRA
C	DGFRP/GFRE paneling.	M/S-H.F GLASS WORKS VADODRA
D	Lavatory with DGFRP/GFRE paneling.	M/S-H.F GLASS WORKS VADODRA
E	Additional Hand hold.	M/S-H.F GLASS WORKS VADODRA
F	Counter top wash basin.	M/S-H.F GLASS WORKS VADODRA
G	Gel coating & Anti Graffiti measures.	M/S-ADVANCE
H	Air spring in secondary suspension (capacity-140KN).	M/s-TAYAL & CO
I	Fire Extinguishers	M/s-DEVIKA SAFTEY NDLS
J	Vestibule ends for inter-coach movement of passenger and the service staff (LWSCN type End wall)	

- K- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

5. 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	NPP/PP 1100/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-OMAX AUTO 30
		Part NPP END	M/S-OMAX AUTO 30
		Complete	M/S-OMAX AUTO 30
2	Lav. side wall	M/S-DTL PUNE	LAV.1 LAV.2
		M/S-DTL PUNE	LAV.3 LAV.4
3	Side wall	LH SIDE	MCFRBL-CONT.V4U 60/01
		RH SIDE	MCFRBL-CONT.V4U 60/02
4	End wall	PP END	M/S-OMAX REWARI
		NPP END	M/S-OMAX REWARI
5	Roof	MCF/CONT	32
6	Centre Buffer Coupler	M/S-SANROK ENT	PP END 15195 NPP END 15216

7. AIR BRAKE 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 .	6 – 10 sec.	06sec
		Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²
		All Brake are applied	OK	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

8. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1	Paint	P.U	ADVANCE	M/S-ADVANCE	77/87	31-01-2020
2	Insulation			Satisfactory		

Deen Dayalu
SSE/QC/MCF/RBL
वारंजुनू कायंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1602

RLY	S	W	R	Coach No.	2	0	1	5	8	3	/	C	-	DATE OF DISPATCH	1	2	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	-	-	Shell No.	9	6	2	0	7	FUR.NO	DDG-328
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191151				191152			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-094				WIL-289			
Bolster no.	MCF/RBL-LS-5-1236				mcf/rbl-1258			
Axle No	19 P- 2999 RWF		19 S - 0544 RWF		19 P 1590 RWF		19 P- 1538 RWF	
Wheel Dia	917.332	917.432	917.35	917.49	917.291	917.422	917.361	917.46
Wheel Disc No	TZ 07-19 69235-9RL6	TZ 07-19 67758-9RQ3	TZ 07-19 67012-9RM8	TZ 07-19 69236-9RL6	TZ 06-19 58222-9PI9	TZ 06-19 58094-9QI3	TZ 06-19 59582-9QH2	TZ 07-19 69175-9RL6
R.B. Nos.	11-19 40361	09-19 31722	11-19 40335	09-19 31672	09-19 31389	10-19 30882	11-19 31536	08-19 30852
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO. 19-10-4949	TAYAL & CO. 19-10-5024	TAYAL & CO. 10-19 4630	TAYAL & CO. 10-19 4723

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	280050,280102	279573,279797
2.	Primary outer Spring	CMAFI	07-19-1101-(327,351,328,352)	12-19-F06-N75-07A(4022,986,780,661)
3.	Primary Inner Spring	CMGBD	10-19-F06-844- (794,517,519,224)	07-19 F06-N91-06A (802,986,780,661)
4.	Primary Damper	IAI	11-19 (282468,281948,282864,282053)	11-19 (282298,282297,282004,282215)
5.	Secondary Damper	IAI	11-19 (283439,283458)	11-19 (283387,283587)
6.	Lateral Damper	KONIC	04-19 1828	04-19 02587
7.	Brake Cylinder	KBI	(C-0984,B-9849,B-9854,C-0987)-29	C(1002,1029)K29,B(9892,9911)K29
8.	Brake Caliper	KBI	B(7681,7753,7751,7682)-K-29	B(7741,7793,7794,7740)-29
9.	Brake Disc	FAV	D133561-300-11-19-(6964,6965,6945,6944)	11-19(8116,8233,8113,8115)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT/KNORR	1904,1905	12-19B 1650,13-19 B-1310
17.	Check Valve	ESCORT/KNORR	1905	03-19 17582
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA / GMT SARITA / AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	817,408,381,028	607,117,619,1079
22.	Control Arm Lower	SF	244,107,484,482	689,408,354,580
23.	Phonic Wheel	KBI	09-19-640209	07-19-640209

Signature of SSE/Bogie/QC



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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	
2	Distribution valve	M/S- KBI	4385-50/19
3	Pull box	M/S- KBI	2019M9775
4	FIBA	M/S- KBI	
5	Foot Step	M/S SSPL FARIDABAD	7168/29,7934/29
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-H.F GLASS WORKS VADODRA	
9	Lavatory inlay	M/S-H.F GLASS WORKS VADODRA	
10	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
11	UIC Vestibule (NPPE)	M/S-SUNCREAST 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-H.F GLASS WORKS VADODRA	
15	Emergency Window	M/S-H.F GLASS WORKS VADODRA	
16	Lavatory/hopper Window	M/S-H.F GLASS WORKS VADODRA	
17	Roof Ceiling	M/S-H.F GLASS WORKS VADODRA	
18	Door way /gang way ceiling	M/S-H.F GLASS WORKS VADODRA	
19	Body Side Doors	M/S-H.F GLASS WORKS VADODRA	
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
22	Bio Tank	M/S-OMAX AUTOS LTD	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S-AMIT ENG. MOHALI	
25	Bib cock/controlled discharge tap	M/s-JAQUAR PVT LTD ALWAR	
26	Lavatory Doors	M/S-H.F GLASS WORKS VADODRA	
27	Fire Extinguisher	M/s-DEVIKA SAFTEY NDLS	
28	Water purified	M/S-H.F GLASS WORKS VADODRA	5474/5381
30	Seat & Berth	M/S-H.F GLASS WORKS VADODRA	
31	Luggage Rack	M/S-H.F GLASS WORKS VADODRA	
32	Light Luggage Rack	N/A	
33	RFID	N/A	

Deen Dayalu
SSE/QC/MCF/RBL

रजिस्ट्रार विभाग
रेलवे कारखाना, रायबरेली (लालगंज)



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						FUR.NO.	DDG-328

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

16. 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 30months from the date of supply of material whichever is earlier.

NOTE:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from 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	
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	5B
				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	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता/गुणवत्ता
Senior Section Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

Joginder Singh
उप मुख्य गुणवत्ता
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
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DOC NO.: MCF/RBL/QEF/8001

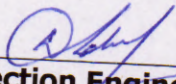
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FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC GS COACHES						
SHELL/COACH NO		201583/C		TYPE COACH		LWS/DDG
RAILWAY	SWR	ELECT.FIT DATE	11-02-2020	FUR.NO	DDG-328	
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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES

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01.	Switch board cabinet Make : SSK On Board Sr no : 2019/07/221 HT Panel Sr no : 2019/08/341	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTEG	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 : LIGHT ENGG.	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: ENSAVE	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 : INDORAIL	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : RICHMOND	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: W4K5L 191219	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2708	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
14.	Feeder junction boxes. Make : RSI	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119362737	M/s : KNORR	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 01/2020	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : TECHNO	CC 91205	01

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL
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