



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/2019-20/1599

RLY	SWR	COACH NO	201069/C	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	12-Feb-20
Type	LWS	Shell No.	96069			FUR.NO.	DDG-188

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-ACME INDIA NDLS
B	Honey comb partition frame.	M/S-ACME INDIA NDLS
C	DGFRP/GFRE paneling.	M/S-ACME INDIA NDLS
D	Lavatory with DGFRP/GFRE paneling.	M/S-ACME INDIA NDLS
E	Additional Hand hold.	M/S-ACME INDIA NDLS
F	Counter top wash basin.	M/S-ACME INDIA NDLS
G	Gel coating & Anti Graffiti measures.	M/S-VIBGYOR
H	Air spring in secondary suspension (capacity-140KN).	M/s-AVADH RAIL INFRA
I	Fire Extinguishers	M/s-CHIRAG INDUSTRIES (H.R)
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 1102/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-SFPL	27
		Part NPP END M/S-SFPL	27
		Complete M/S-SFPL	27
2	Lav. side wall	M/S-ATHANACY RBL LAV.1	LAV.2
		M/S-ATHANACY RBL LAV.3	LAV.4
3	Side wall	LH SIDE MCFRBL-CONT.V4U	56/01
		RH SIDE MCFRBL-CONT.V4U	56/02
4	End wall	PP END M/S-P.D.STEEL	
		NPP END M/S-P.D.STEEL	
5	Roof	MCF	2
6	Centre Buffer Coupler	M/S-SANROK ENT PP END	13454 NPP END 13438

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.	08 sec
		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	VIBGYOR	M/S-VIBGYOR	76/89	21-08-2019
2	Insulation			Satisfactory		

Alma
DSE/QC/MCF/RBL अभियंता

गुणवत्ता विभाग
रेडिओका, 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/2019-20/1599

RLY	S	W	R	Coach No.	2	0	1	0	6	9	/	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	0	6	9	FUR .NO	DDG-188
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192743				192744			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-266				AML-105			
Bolster no.	AMIT-117				AMIT-66			
Axle No	19 N- 8815 RWF		19 R - 7448 RWF		19 S 3567 RWF		19 P- 4482 RWF	
Wheel Dia	917.339	917.352	917.321	917.346	917.349	917.394	917.343	917.349
Wheel Disc No	TZ 07-19 61880-9RP7	TZ 08-19 74604-9SJ7	TZ 08-19 74073-9SL2	TZ 07-19 64731-9RQ1	TZ 08-19 72190-9RS0	TZ 08-19 75032-9RK2	TZ 07-19 65253-9RP5	TZ 07-19 63216-9RM7
R.B. Nos.	11-19 40240	11-19 40244	11-19 40236	11-19 43159	11-19 43053	11-19 41472	11-19 43046	11-19 41271
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	AVADH RAIL INDRA 19-11-5986	TAYAL & CO. 19-11-5976	TAYAL & CO. 11-19 5966	TAYAL & CO. 11-19 5965

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	279770,279815	280295,280159
2.	Primary outer Spring	CMAFI	07-19-1101-(111,75,116,80)	07-19-1101-(79,113,114,78)
3.	Primary Inner Spring	CMGBD	10-19-F06-842- (770,458,610,316)	10-19-F06-842- (434,334,48,385)
4.	Primary Damper	IAI	11-19 (282120,282583,282700,282131)	11-19 (282109,282210,282927,282600)
5.	Secondary Damper	IAI	11-19 (274565,274528)	11-19 (274527,274586)
6.	Lateral Damper	KONIC	04-19 00515	04-19 00607
7.	Brake Cylinder	FAV	M19(066,067,823,063)-	L19(379,707),M19(025,068)
8.	Brake Caliper	FAV	M19(1824,1822,1643,1644)- B	M19(1664,1682,1823,1825)-B
9.	Brake Disc	FAV	D133561-300-12-19-(8179,8180,8177,8178)	11-19(8227,8228,6755,6754)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	ARYAN/GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	12-19B 7470,13-19 B-7510	12-19B 1650,13-19 B-1310
17.	Check Valve	KNORR	07-19 20295	03-19 17582
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA / GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	725,574,398,246	89,212,157,312
22.	Control Arm Lower	SF	319,288,127,378	108,37,265,208
23.	Phonic Wheel	KBI	08-19-640209	08-19-640209

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	4034-41/19
2	Distribution valve	M/S- KBI	2019K9244
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	7938/29,7876/29
5	Foot Step	M/S SSPL FARIDABAD	
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-ACME INDIA NDLS	
9	Lavatory inlay	M/S-ACME INDIA NDLS	
10	UIC Vestibule (PPE)	M/S-ELASTOMER MUMBAI	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER 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-ACME INDIA NDLS	
15	Emergency Window	M/S-ACME INDIA NDLS	
16	Lavatory/hopper Window	M/S-ACME INDIA NDLS	
17	Roof Ceiling	M/S-ACME INDIA NDLS	
18	Door way /gang way ceiling	M/S-ACME INDIA NDLS	
19	Body Side Doors	M/S-ACME INDIA NDLS	
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
22	Bio Tank	M/S- JSL LIFE STYLE	
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-AGMECO PVT LTD	
26	Lavatory Doors	M/S-ACME INDIA NDLS	
27	Fire Extinguisher	M/s-CHIRAG INDUSTRIES (H.R)	140319/140321
28	Water purified	M/S-ACME INDIA NDLS	358/352
30	Seat & Berth	M/S-ACME INDIA NDLS	
31	Luggage Rack	M/S-ACME INDIA NDLS	
32	Light Luggage Rack	N/A	
33	RFID	N/A	

वरील देखावा
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिओका ०, रायबरेली (लालगंज)



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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	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	SME/AME/QC/MCF/RBL	Dy.COM/MCF/RBL

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

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

जगदीश सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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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		201069/C		TYPE COACH	
RAILWAY	SWR	ELECT.FIT DATE	06-02-2020	FUR.NO	LWS/DDG
Sr no	Description of test	DDG-188			
					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			

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : SSK On Board Sr no : 2019/07/239 HT Panel Sr no : 2019/07/180	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : A PAUL	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 : CG POWER	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

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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

PAGE 3 OF 3

09.	Battery fuse box +ve Make : SSK	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: 12190790	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2704	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 earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119362704	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 : 01/20	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
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स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

