



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/2019-20/1727

RLY	SWR	COACH NO	201775/C	DATE OF DISPATCH	28-Feb-20
Type	LWS	Shell No.	96221	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-333

- Railway Board's Order No. : 2019/M(C)/142/2,DATED-07.02.2020
- TARE WEIGHT OF COACH : 40.66 Tonnes
- 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-LUCKY INTERPRISES
B	Honey comb partition frame.	MCFRBL/LLJ
C	DGFRP/GFRE paneling.	MCFRBL/LLJ
D	Lavatory with DGFRP/GFRE paneling.	MCFRBL/LLJ
E	Additional Hand hold.	MCFRBL/LLJ
F	Counter top wash basin.	MCFRBL/LLJ
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-AMTEX SAFTEY
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 1105/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END M/S-OMAX AUTOS	40
	Part	NPP END M/S-OMAX AUTOS	40
	Complete	M/S-OMAX AUTOS	40
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-V4U LKO	85
		RH SIDE MCFRBL-V4U LKO	85
4	End wall	PP END M/S-OMAX REWARI	
		NPP END M/S-OMAX REWARI	
5	Roof	MCFRBL-CONT.	26
6	Centre Buffer Coupler	M/S-SANROK PP END	15210 NPP END 15221

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.	09 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	73/88	24-01-2020
2	Insulation			Satisfactory		

Deema
SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (उत्तरांचल)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1727

RLY	S	W	R	-	Coach No.	2	0	1	7	7	5	/	C	-	DATE OF DISPATCH	2	8	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	Shell No.	9	6	2	2	1	FUR.NO	DDG-333
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193562				193561			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-008				WIL-028			
Bolster no.	SECPL-657				SECPL-667			
Axle No	20 V - 0761 RWF		20 V- 1213 RWF		20 V-0566 RWF		20 V - 0997 RWF	
Wheel Dia	917.366	917.4	917.417	917.449	917.381	917.403	917.395	917.425
Wheel Disc No	TZ 12-18 18049-8WP9	TZ 04-19 37371-9QJ4	TZ 06-19 58065-9QI3	TZ 04-19 37492-9QJ7	TZ 04-19 37708-9OE7	TZ 04-19 35979-9OE7	TZ 04-19 35980-9OE7	TZ 02-19 28853-9MK7
R.B. Nos.	12-19 34903	12-19 44680	12-19 34751	12-19 44685	12-19 34448	11-19 34080	11-19 34569	11-19 42992
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 INFRA LTD. 01-20- 7082	AVADH RAIL INFRA LTD. 01-20-7132	AVADH RAIL INFRA LTD. 01-20- 7125	AVADH RAIL INFRA LTD. 01-20- 7127

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	273440,273300	278523,278521
2.	Primary outer Spring	CMSTL	07-19-F07-N98-(81219,2777,3822,4537)	07-19-F07-N98-07A-(4622,8041,2934,4624)
3.	Primary Inner Spring	CMSTL	07-19-F06-N72-(921,264,990,1001)	07-19-F06-N84-(946,894,1157,1006)
4.	Primary Damper	IAI	12-19 (286231,287169,288233,288324)	12-19 (287503,287045,287945,287806)
5.	Secondary Damper	KONI	04-19(00315,00372)	04-20(00722,00714)
6.	Lateral Damper	IAI	11-19-283629	09-19-274689
7.	Brake Cylinder	KBI	C-(3629,2172,2230,3618)-K29	C-(3632,2174,2133,3136)K-29
8.	Brake Caliper	KBI	B-(9946,9986,9985,9944)-19	B-(9888,9988,9987,9945)-29
9.	Brake Disc	FAV	01-20-(464,463,3808,203)-D133561-300	01-20-(421,420,465,466)-D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1907,1907	1912,1912
17.	Check Valve	ESCORT	1907	1912
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA+GMT/ SARITA+ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RV	171119-1,201119-3,211119-2,161119-3	171119-2,191119-3,161119-1,161119-1
22.	Control Arm Lower	RV	231119-3,231119-3,231119-2,161119-3	221119-2,221119-3,221119-3,221119-4
23.	Phonic Wheel	KONI	K01-20	K11-19

Signature of SSE/Bogie/QC





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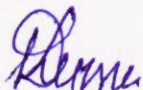
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Type	LWS	Shell No.	96221			FUR.NO.	DDG-333

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	4380 49/19
2	Distribution valve	M/S- KBI	2019M9747
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	7367/29,7186/29
5	Foot Step	M/S SSPL FARIDABAD	
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-OVPL MUMBAI	
8	PVC	M/S-PREMIER POLU FILM	
9	Lavatory inlay	M/S-SEEMA BHOPAL	
10	UIC Vestibule (PPE)	M/S-KRP MUMBAI	
11	UIC Vestibule (NPPE)	M/S-KRP MUMBAI	
12	Gangway bridge mounting (PPE)	M/s-MMW KXH	
13	Gangway bridge mounting (NPPE)	M/s-MMW KXH	
14	Body Side Window	M/S-EXCEL COMPOSITE KOLKATA	
15	Emergency Window	M/S-FIBRO PLASTIC LTD HOOGHLY	
16	Lavatory/hopper Window	M/S-SHATABDI VADODARA	
17	Roof Ceiling	M/S-JR JUC	
18	Door way /gang way ceiling	M/S-JR JUC	
19	Body Side Doors	M/S-SUKATA CDG	
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 LTD	
26	Lavatory Doors	M/S-JR JUC	
27	Fire Extinguisher	M/s-AMTEX SAFTEY	14432/14469
28	Water purified	NIL	
30	Seat & Berth	M/S-OVPL MUMBAI	
31	Luggage Rack	M/S-LUCKY INTERPRISES	
32	Light Luggage Rack	NIL	
33	Ventury grill	NIL	
34	RFID	NIL	


SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०का०, रायबरेली (तालमज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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				FUR.NO.	DDG-333

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:

- 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 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.CQM/MCF/RBL

मुख्यता विभाग
रेडिंका, रायबरेली (लातंग)

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

मुख्यता विभाग
Dy. Chief Quality Manager
रेडिंका, रायबरेली
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

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		201775/C		TYPE COACH		LWS/DDG	
RAILWAY		SWR	ELECT.FIT DATE		25-02-2020	FUR.NO	DDG-333
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

PAGE 2 OF 3

01.	Switch board cabinet Make : MV ELECTRO SYSTEMS On Board Sr no : 19090155 HT Panel Sr no : 19090141	EDTS 333, Rev `01'Am-1	01
02.	Emergency light system for EOG type coaches (AEL), Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: RT VISION	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 : SARIA	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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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PAGE 3 OF 3

09.	Battery fuse box +ve Make : RICHMOND	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: W4K5A 201349	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2945	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 : MV ELECTRO	EDTS-328 REV-C	01 set
15.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 01192322092	M/s : KNORR	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : M/S MEENAKSHI	CC 91205	01

 SSE/EL/QC वरिष्ठ अनुमान अभियन्ता गुणवत्ता नियंत्रण आधरेडि0का0/लालगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, Sr. Electrical Engineer / RCF / RBL
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