



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/2019-20/1363

RLY	SWR	COACH NO	197861/C	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	31-12-2019
Type	LWS	Shell No.	96129			FUR.NO.	DDG-268
1.	Railway Board's Order No.	:	2019/M(C)/142/2, DATED-21.11.2019				
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- HF GLASS WORKS VADODARA
B	Honey comb partition frame.	M/S- HF GLASS WORKS VADODARA
C	DGFRP/GFRE paneling.	M/S- HF GLASS WORKS VADODARA
D	Lavatory with DGFRP/GFRE paneling.	M/S- HF GLASS WORKS VADODARA
E	Additional Hand hold.	M/S- HF GLASS WORKS VADODARA
F	Counter top wash basin.	M/S- HF GLASS WORKS VADODARA
G	Gel coating & Anti Graffiti measures.	M/S- HF GLASS WORKS VADODARA
H	Air spring in secondary suspension (capacity-140KN).	M/S-GS
I	Fire Extinguishers	M/s-AVADH RAIL INFRA
J	Vestibule ends for inter-coach movement of passenger and the service staff (LWSCN type End wall)	M/s-SHAN IND MUMBAI

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	
2	Maximum width over body	23700
3	Maximum height from Rail Level	3240
4	CBC height/Buffer height from Rail level 1105 +0/-10	4039
		NPP/PP 1105/1100

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-OMAX AUTO LTD	7
	Part NPP END M/S-OMAX AUTO LTD	7	
	Complete M/S-OMAX AUTO LTD	7	
2	Lav. side wall	M/S-ATHANCY RBL	LAV.1
		M/S-ATHANCY RBL	LAV.2
3	Side wall	LH SIDE MCFRBL-CONT.V4U	LAV.3
	RH SIDE MCFRBL-CONT.V4U	LAV.4	
4	End wall	PP END M/s-SIPL PALWAL	17
	NPP END M/s-SIPL PALWAL		
5	Roof	M/s-TI	67
6	Centre Buffer Coupler	M/S- FRONTIER	PP END 135P1 NPP END 108P2

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.	08sec
		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	GS	M/S-GSI	76/89	29-11-2019
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेलवे डिब्बा कारखाना, रायबरेली (लाहौरी)





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/2019-20/1363

RLY	S	W	R	Coach No.	1	9	7	8	6	1	/	C	-	DATE OF DISPATCH	3	1	1	2	2	0	1	9
DISPATCH	Sr.DME/MYS				Type	L	W	S	-	-	-	Shell No.	9	6	1	2	9	FUR .NO	DDG-268			

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192476				192475			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-195				ECBT-300			
Bolster no.	AMIT-41				AMIT-20			
Axle No	19 N- 3908 RWF		19 L - 5603 RWF		19 S - 9207 RWF		19 N - 4355 RWF	
Wheel Dia	917.525	917.582	917.496	917.537	917.577	917.49	917.531	917.596
Wheel Disc No	TZ 07-19 63984-9RQ8	TZ 07-19 65239-9RP5	TZ 07-19 67873-9RQ3	TZ 07-19 67611-9RL3	TZ 07-19 65981-9RR0	TZ 06-19 61131-9QL1	TZ 07-19 63956-9RQ8	TZ 07-19 63984-9RQ8
R.B. Nos.	08-19 29896	08-19 29524	09-19 31885	07-19 40531	11-19 40702	11-19 40619	11-19 41286	11-19 41106
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.	AVADH RAIL INDRA LTD. 09-19 5163	AVADH RAIL INDRA LTD. 11-19 5828	AVADH RAIL INDRA LTD. 09-19 5150	AVADH RAIL INDRA LTD. 09-19 5192

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	407,68	295,71
2.	Primary outer Spring	CMFSK	10-19-1100-078(157,310,219,217)	10-19-1100-078(200,204,216,171)
3.	Primary Inner Spring	CMSTL	07-19 F06-N92-06A(1486,1146,1260,3757)	07-19 F06-N92-06A(4165,1470,1741,1478)
4.	Primary Damper	KONIC	03-19 (01982,02328,04518,03121)	03-19 (02013,01724,02235,01997)
5.	Secondary Damper	IAI	09-19 (277003,273014)	09-19 (276813,276877)
6.	Lateral Damper	KONIC	04-19 02504	04-19 02470
7.	Brake Cylinder	ESCORT	45743,45515,45510,45776	45775,45509,45514,45744
8.	Brake Caliper	ESCORT	25563,25454,25449,25596	25595,25448,25453,25564
9.	Brake Disc	KBI	24206707 0064-46/19,24206708 0062-47/19 24206707 0037-46/19,24206707 0019-46/19	24206711 0048-47/19,24206711 0049-47/19 24206711 0051-47/19,24206711 0050-47/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	AEW		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1906,1906	1906,1906
17.	Check Valve	ESCORT	1906	1906
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON /ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	160819-1,160919-1,160919-1,210919-3	240919-1,160919-2,210919-3,110919-2
22.	Control Arm Lower	RVE	180919-1,RVE,RVE,160919-2	290919-2,RVE,180919-1,RVE
23.	Phonic Wheel	KBI	K 08-19	K 08-19

Signature of SSE/Bogie/QC



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RLY	SWR	COACH NO	197861/C	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	31-12-2019
Type	LWS	Shell No.	96129			FUR.NO.	DDG-268

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- FAIVELY	
2	Distribution valve	M/S- FAIVELY	19116B
3	Pull box	M/S- FAIVELY	19105644B
4	FIBA	M/S- ESCORTS	
5	Foot Step	M/S SSPL MUMBAI	18120332,18110280
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-OVPL MUMBAI	
8	PVC	M/S- HF GLASS WORKS VADODARA	
9	Lavatory inlay	M/S- HF GLASS WORKS VADODARA	
10	UIC Vestibule (PPE)	M/S-ELASTOMER IND MUMBAI	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER IND 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- HF GLASS WORKS VADODARA	
15	Emergency Window	M/S- HF GLASS WORKS VADODARA	
16	Lavatory/hopper Window	M/S- HF GLASS WORKS VADODARA	
17	Roof Ceiling	M/S- HF GLASS WORKS VADODARA	
18	Door way /gang way ceiling	M/S- HF GLASS WORKS VADODARA	
19	Body Side Doors	M/S- HF GLASS WORKS VADODARA	
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
22	Bio Tank 1,3	M/S- CEMCON	
	Bio Tank 2,4	M/S- UNIFAB	
23	Pressurized flushing(ele.pneu.)	M/S- IMI	
24	Over head water tank (4x390L)	M/S- AMITBADDI -03,FABRICATORS -01	
25	Bib cock/controlled discharge tap	M/s- JAQUAR PVT LTD ALWAR	
26	Lavatory Doors	M/S- HF GLASS WORKS VADODARA	
27	Fire Extinguisher	M/s-SHAN IND MUMBAI	649/375
28	Water purified	M/S- HF GLASS WORKS VADODARA	
29	Seat & Berth	M/S- HF GLASS WORKS VADODARA	
30	Luggage Rack	M/S- HF GLASS WORKS VADODARA	
31	Light Luggage Rack	M/S- HF GLASS WORKS VADODARA	
32	RFID	N/A	

Deema
SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रेलवे डिप्टी, रायबरेली (लाब मंज)





		Modern Coach Factory Raebareilly 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/2019-20/1363					
RLY	SWR	COACH NO	197861/C	DATE OF DISPATCH	31-12-2019
Type	LWS	Shell No.	96129	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-268
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.CQM/MCF/RBL	

वरि० अनु० अभियंता
गुणवत्ता विभाग
रे० डि० का०, रायबरेली (लालगंज)

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

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





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		197861/C		TYPE COACH		LWS/DDG
RAILWAY		SWR	ELECT.FIT DATE	28-12-2019	FUR.NO	DDG-268
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



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 : TRINITRON On Board Sr no : 19/12/TCS/MCF/3451/355/0059 HT Panel Sr no : NIL	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTEG 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 : ORIENT	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

(Signature)

**Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli**






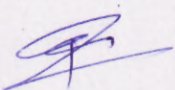
	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
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FOR ELECTRICAL ITEMS

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 : SSK	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: W4K5J 19887	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2690	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 : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : I 0668	M/s : FAIVELEY	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 : 11/19	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 वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आपरेटिंग/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