



		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/2019-20/1601						
RLY	SWR	COACH NO	201071/C	DATE OF DISPATCH	12-Feb-20	
Type	LWS	Shell No.	96190	DISPATCH TO	Sr.DME/MYS	
				FUR.NO.	DDG-322	
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-VIBGYOR		
H	Air spring in secondary suspension (capacity-140KN).			M/s-ARL		
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	1102/1105	
6. TRACEABILITY OF SHELL ITEMS:						
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1	Under frame	Front PP END	M/S-OMAX AUTO	23		
		Part NPP END	M/S-OMAX AUTO	23		
		Complete	M/S-OMAX AUTO	23		
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	47/01		
		RH SIDE	MCFRBL-CONT.V4U	47/02		
4	End wall	PP END	M/S-DTL PUNE			
		NPP END	M/S-SIPL PALWAL			
5	Roof	M/S-UNIVERSAL	77			
6	Centre Buffer Coupler	M/S-SANROK ENT	PP END	15483	NPP END 15494	
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	75/86	16-01-2020
2	Insulation	Satisfactory				

SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 ०६डि०का०, रायबरेली (लातगंज)





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/2019-20/1601

RLY	S	W	R	-	Coach No.	2	0	1	0	7	1	/	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	1	9	0	FUR .NO	DDG-322
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191158				191157			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-006				ECBT-05			
Bolster no.	MCF/RBL-1289				RBL-LS-5-1118			
Axle No	20 T - 8134 RWF		20 T- 8464 RWF		19 T -6368		19 T- 7127	
Wheel Dia	917.276	917.281	917.209	917.424	917.297	917.384	917.315	917.434
Wheel Disc No	TZ 07-19 68336-9RQ6	TZ 07-19 68337-9RQ6	TZ 07-19 26267-7QK7	TZ 07-19 26268-7QK7	TZ 02-19 24457-9MG8	TZ 05-19 42265-9PI3	TZ 05-19 46726-9PD5	TZ 02-19 24458-9MG8
R.B. Nos.	11-19 32831	11-19 31909	12-19 34288	12-19 44793	11-19 41078	11-19 42513	11-19 40607	11-19 40290
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.PVT.LTD SR.NO- 12-19 6403	AVADH RAIL INDRA.PVT.LTD SR.NO- 12-19 6405	AVADH RAIL INDRA.PVT.LTD SR.NO- 12-19 6404	AVADH RAIL INDRA.PVT.LTD SR.NO- 12-19 6406

11. TRACEABILITY 9OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	280047,279745	279832,279611
2.	Primary outer Spring	CMSTL	06-19-F07-N84-07A-(4549,4530,8181,8406)	07-19-F07-N99-07A-(4696,4710,4520,4630)
3.	Primary Inner Spring	CMSTL/CMGBD	11-18-F06-N74-06A-(2718,4068,1896,4047)	10-19-F06-842-(475,583,772,313)
4.	Primary Damper	IAI	09-19(273917,273858,273889,273859)	09-19- (274071,273958,273899,273865)
5.	Secondary Damper	IAI	09-19-(274638,274591)	09-19(274560,274586)
6.	Lateral Damper	KONI/ IAI	04-19-01638	09-19-274673
7.	Brake Cylinder	KBI	C(0862,0860)K29, B(9698,9696)K29	C(0793,0790)-K29, B(9570,9575)-K29
8.	Brake Caliper	KBI	B(7549,7634,7653,7550)-29	B(7474,7522,7521,7473)-29
9.	Brake Disc	KBI	24206689 0031-44/49, 24206688 0080-44/19, 24206722 0011-49/19, 24206722 00-49/19	24208531-0037-52/19, 24208531-0036-52/19, 24208531-0045-52/19, 24208531-0035-52/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT/AR		
12.	Traction Centre make	(SF)SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19B-7193,16-19 B-7166	16-19B-7054, 16-19B-7092
17.	Check Valve	KNORR	07-19 20435	03-19 20263
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA /GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RV	160819-1,100819-3,100819-3,160819-1	190815-3, 190815-3, 190815-3, 190815-3,
22.	Control Arm Lower	SF+RV	SF-(425,558,098),RV	140819-4,140819-4
23.	Phonic Wheel	KBI	K09-19-640209	K09-19

Signature of SSE/Bogie/QC



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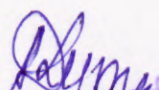
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ROLLING STOCK CERTIFICATE (DEEN DAYALU)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1601

RLY	SWR	COACH NO	201071/C		DATE OF DISPATCH	12-Feb-20
Type	LWS	Shell No.	96190	DISPATCH TO	Sr.DME/MYS	FUR.NO. DDG-322

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	4354-49/19
2	Distribution valve	M/S- KBI	2019M9723
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	7219/29,7888/29
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-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- JSL LIFE STYLE LTD.	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S-AMIT ENG. MOHALI (03) & RAIL FAB (01)	
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	5508/5528
28	Water purified	M/S-H.F GLASS WORKS VADODRA	
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	


SSE/QC/MCF/RBL

मुख्यता विभाग
रेडिंक ०, रायबरेली (लागवर्त)



MCF/RBL



Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	SWR	COACH NO	201071/C	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	12-Feb-20
Type	LWS	Shell No.	96190			FUR.NO.	DDG-322

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. QM/MCF/RBL

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

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता
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



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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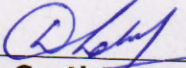
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FOR ELECTRICAL ITEMS

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		201071/C		TYPE COACH	
RAILWAY	SWR	ELECT.FIT DATE	11-02-2020	FUR.NO	LWS/DDG
Sr no	Description of test	DDG-322			
		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
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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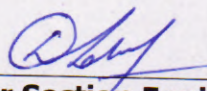
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FOR ELECTRICAL ITEMS

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

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01.	Switch board cabinet Make : SSK On Board Sr no : 2019/07/250 HT Panel Sr no : 2019/07/339	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


Senior Section Engineer
Quality control / Electrical
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FOR ELECTRICAL ITEMS

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

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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: W4K5L 191228	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2711	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 : 0119362740	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	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आ०रे०डि०का०/लातगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक/विद्युत
आ०रे०डि०का०/रायबरेली
A.W.M./Electrical/MCF/RBL