		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/2019-20/1391							
RLY	SWR	COACH NO	201009/C	DATE OF DISPATCH		31-12-2019	
Type	LWS	Shell No.	96172	DISPATCH TO	Sr.DME/MYS	FUR.NO.	DDG-286
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-ADVANCE	
H	Air spring in secondary suspension (capacity-140KN).					M/s-TAYAL & CO	
I	Fire Extinguishers					M/s-SHAN IND MUMBAI	
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	1101/1102
6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1	Under frame	Front PP END	M/S-OMAX AUTO	5			
		Part NPP END	M/S-OMAX AUTO	5			
		Complete	M/S-OMAX AUTO	5			
2	Lav. side wall	M/S-RAIL FAB KXH	LAV.1	LAV.2			
		M/S-RAIL FAB KXH	LAV.3	LAV.4			
3	Side wall	LH SIDE	MCFRBL CONT.V4U	29			
		RH SIDE	MCFRBL CONT.V4U	29			
4	End wall	PP END	M/s-DTL PUNE				
		NPP END	M/s-DTL PUNE				
5	Roof	M/s-UNIVERSAL	65				
6	Centre Buffer Coupler	M/S- FRONTIER	PP END	190P2	NPP END	243P1	
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.	09sec			
		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	75/87	30-12-2019	
2	Insulation	Satisfactory					


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 रेल डिब्बा कारखाना, रायबरेली (लालगंज)



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/2019-20/1391

RLY	S	W	R	Coach No.	2	0	1	0	0	9	/	C	-	DATE OF DISPATCH	3	1	1	2	2	0	1	9
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	Shell No.	9	6	1	7	2	FUR.NO	DDG-286
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192492				192491			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-241				ECBT-256			
Bolster no.	AMIT-28				AMIT-17			
Axle No	19 N- 9661 RWF		19 S- 3716 RWF		19 P- 1842 RWF		19 S- 8403 RWF	
Wheel Dia	917.628	917.347	917.659	917.43	917.484	917.562	917.604	917.596
Wheel Disc No	TZ 06-19 60829-9QK2	TZ 05-19 73685-9RL2	TZ 09-19 65726-9RL6	TZ 08-19 73152-9SL2	TZ 07-19 65325-9RS6	TZ 07-19 61668-9RR4	TZ 08-19 74385-9RL1	TZ 08-19 74551-9RP2
R.B. Nos.	08-19 24928	11-19 40839	09-19 39912	08-19 29421	11-19 41282	11-19 41293	11-19 40813	11-19 40756
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. 10-19 4903	TAYAL. & CO. 10-19 4982	TAYAL.&CO. 10-19 -4880	TAYAL. & CO. 10-19 4850

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	kbi	18307,18303	18310,18304
2.	Primary outer Spring	CMFSK	10-19-1100 114(1740,1244,1357,1250)	10-19-1100-114(1214,1600,1208,1694)
3.	Primary Inner Spring	CMFSK	10-18 1101-101(1023,914,1082,959)	10-18 1101-101(1072,1100,1080,1022)
4.	Primary Damper	KONIC	03-19 (07938,06460,06661,06475)	03-19 (0659807848,06549,07932,)
5.	Secondary Damper	IAI	10-19 (277046,277641)	10-19 (276965,276967)
6.	Lateral Damper	KONIC	04-19 01535	04-19 01491
7.	Brake Cylinder	ESCORT	45619,45645,45466,45737	45738,45468,45643,45621
B19-	Brake Caliper	ESCORT	25489,25484,25405,25557	25558,25407,25482,25491
9.	Brake Disc	KBI	24206702 0050-46/19,24206703 0034-46/19 24206702 0051-46/19,24206708 0015-47/19	24206708 0019-47/19,24206707 0071-47/19 24206704 0004-46/19,24206704 0005-46/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	(SF)SARITA		
13.	Traction lever make	AEW		
14.	Ball joint traction lever	GMT/ARAYAN		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1903,1906	1906,1906
17.	Check Valve	ESCORT	1906	1906
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA /ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	160919-1,240919-2,210919-3,160919-1	210919-3,210919-3,210919-3,210919-1
22.	Control Arm Lower	RVE	210919-3,210919-3,240919-2,240919-2	240919-2,240919-2,210919-3,170919-2
23.	Phonic Wheel	FAV	FT/KEP-159	FT/KEP-184

Signature of SSE/Bogie/QC

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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
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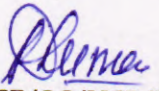
ROLLING STOCK CERTIFICATE (DEEN DAYALU)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1391

RLY	SWR	COACH NO	201009/C	DATE OF DISPATCH	31-12-2019
Type	LWS	Shell No.	96172	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-286

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	4147 43/19
2	Distribution valve	M/S- KBI	2019K9373
3	Pull box	M/S- FAIVELY	
4	FIBA	M/S- ESCORTS	18090126,18090085
5	Foot Step	M/S SSPL MUMBAI	
6	Decoupling arrangement	M/S- KOHINOOR MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S- HF GLASS WORKS VADODARA	
9	Lavatory inlay	M/S- HF GLASS WORKS VADODARA	
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 STEEL KXH	
13	Gangway bridge mounting (NPPE)	M/S- RAKESH IRON STEEL 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-KALSI LDH	
22	Bio Tank 2,4	M/S- UNIFAB	
	Bio Tank 1,3	M/S- CEMCON	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S- AMIT MOHALI	
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 INDS MUMBAI	354/309
28	Water purified	N/A	
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	


SSE/QC/MCF/RBL

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रे०डि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE (DEEN DAYALU)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1391

RLY	SWR	COACH NO	201009/C	DATE OF DISPATCH	31-12-2019
Type	LWS	Shell No.	96172	DISPATCH TO	Sr.DME/MYS
				FUR.NO.	DDG-286

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 qualityrcfrbl@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

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)

Modern Coach Factory, Raebareli

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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		201009/C		TYPE COACH		LWS/DDG					
RAILWAY		SWR		ELECT.FIT DATE		02-01-2020		FUR.NO		DDG-286	
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 : TRINITRON On Board Sr no : 19/12/TCS/MCF/3451/355/0064 HT Panel Sr no : 19/12/TCS/MCF/3451/355/0064	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: 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 : 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: DR AUTO	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

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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 : ISGPL	LW 71002,Alt-F	01
11.	Regulated battery charger Make : SIGNOTRON Sr no: 12190833	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2719	As per RDSO/PE/SPEC/TL 0158,2010, Rev` 0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	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 : KNORR Sr no : 0119232134	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 : 12/19	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 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