



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/2019-20/1701

RLY	SWR	COACH NO	201664/C	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	25-Feb-20
Type	LWS	Shell No.	96198			FUR.NO.	DDG-349

1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-12-09-2019
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-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-H.F GLASS WORKS VADODRA
H	Air spring in secondary suspension (capacity-140KN).	M/S-VIBGYOR
I	Fire Extinguishers	M/s-TAYAL&CO
J	Vestibule ends for inter-coach movement of passenger and the service staff (LWSCN type End wall)	M/s-DEVIKA SAFTEY NDLS

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

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END	M/S-OMAX AUTO LTD
	Part	NPP END	M/S-OMAX AUTO LTD
	Complete		M/S-OMAX AUTO LTD
2	Lav. side wall	M/S-ATHANACY ALD	LAV.1
		M/S-ATHANACY ALD	LAV.2
3	Side wall	M/S-KIPL HYDRABAD	LAV.3
	LH SIDE		LAV.4
	RH SIDE		03
4	End wall	PP END	M/S-KIPL HYDRABAD
		NPP END	MCF/RBL
5	Roof		MCF/RBL
6	Centre Buffer Coupler		MCF/CONT
		M/S-ESCORT LTD	PP END
			3281
			NPP END
			3264

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
2	Insensitivity	All Brake are applied	OK	OK
3	Sensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
		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	17-02-2020
2	Insulation					

Satisfactory

(Signature)
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक
गुणवत्ता विभाग
रेडिओका, 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/2019-20/1701

RLY	S	W	R	Coach No.	2	0	1	6	6	4	/	C	-	DATE OF DISPATCH	2	5	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	Shell No.	9	6	1	9	8	FUR .NO	DDG-349
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193275				193276			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-808				MCF/RBL-679			
Bolster no.	AMIT-257				AMIT-265			
Axle No	19 T - 4298 RWF		19 P- 1820 RWF		19 T-3523 RWF		19 T- 3484 RWF	
Wheel Dia	917.457	917.357	917.341	917.296	917.338	917.261	917.385	917.289
Wheel Disc No	TZ 05-19 43803-9PF1	TZ 08-19 75316-9RP2	TZ 05-19 45614-9O18	TZ 05-19 45607-9018	TZ 03-19 30022-9MK9	TZ 07-19 69913-9RMO	TZ 05-19 43356-9PO6	TZ 05-19 43357-9PO6
R.B. Nos.	11-19 52830	11-19 34211	11-19 32617	11-19 35177	11-19 42456	12-19 34561	12-19 34450	11-19 43626
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
	TAYAL & CO. Sr.NO.19-11 4940	TAYAL & CO. Sr.NO.19-10 4901	TAYAL & CO. Sr.NO.19-10 4911	TAYAL & CO. Sr.NO.19-10 4828

11. TRACEABILITY 90F BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	278488,273359	273328,273414
2.	Primary outer Spring	CMFSK	10-19 1100-114(1801,1398,1809,1391)	10-19 1100-114(1785,1348,1808,1848)
3.	Primary Inner Spring	CMFSK	10-19 1101-101(358,1408,1324,1405)	10-19 1101-101(1149,1322,1375,1384)
4.	Primary Damper	IAI	08-19 (273761,273891,273911,273878)	09-19 (274022,273897,273837,273972)
5.	Secondary Damper	GBSVD	11-19(02190,02192))	11-19 (02189,02188)
6.	Lateral Damper	IAI	11-19-0274707	09-19 274662
7.	Brake Cylinder	KBI	(C2146,C1037,C1059,C2140)K-29	(C2068,C1057,C1065,C2075)K-29
8.	Brake Caliper	KBI	(B8699,B8808,B8806,B8698)29	(B8700,B8807,B8809,B8701)29
9.	Brake Disc	KBI	24206719-0007-48-19,24206718-0065-48-19,24206689-0033-44-19,24206689-0034-44-19	24206718 (0028,0023,0032,0022)48-19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JAI/SJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	19-10,19-10	16-19-B 7516,16-19 B7383
17.	Check Valve	ESCORT	19-10	07-2019 20309
18.	Anti roll bar Make	EMSON/SARITA		
19.	Roll Link make	EMSON /SARITA/GMT		
20.	Fork make	EMSON/RNG		
21.	Control Arm Upper	KUMAR	0511,0877,0872,0857	0872,0885,0857,0528
22.	Control Arm Lower	RVE/KUMAR	220819-3,140819-4,130819-2,140819-2	0514,D8645,D9942,D9841
23.	Phonic Wheel	KNORR	K-09-19	K-08-19

Signature of SSE/Bogie/QC





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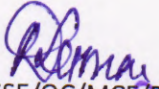
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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	4619-52/19
2	Distribution valve	M/S- KBI	2019M9999
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	7450/29,7460/29
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-KIRAN RUBBER PRODUCT PUNE	
11	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
12	Gangway bridge mounting (PPE)	M/s-HARE KRISHNA KXH	
13	Gangway bridge mounting (NPPE)	M/s-HARE KRISHNA 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-FLASH FORGE (P) LTD	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S-RAIL FAB KAPURTHALA	
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	1270/5455
28	Water purified	M/S-H.F GLASS WORKS VADODRA	
29	Seat & Berth	M/S-H.F GLASS WORKS VADODRA	
30	Luggage Rack	M/S-H.F GLASS WORKS VADODRA	
31	Light Luggage Rack	N/A	
32	Ventury grill	M/S-H.F GLASS WORKS VADODRA	
33	RFID	N/A	


वरिष्ठ निदेशक
गुणवत्ता विभाग
रेडिओका, रायबरेली (लाल गज)



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Type	LWS	Shell No.	96198			FUR.NO.	DDG-349

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

गुणवत्ता विभाग
रेडि0का0, रायबरेली (लालगंज)

वरिष्ठ यात्रिक अभियन्ता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, 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

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ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC GS COACHES						
SHELL/COACH NO		201664/C		TYPE COACH		LWS/DDG
RAILWAY	SWR	ELECT.FIT DATE	24-02-2020	FUR.NO	DDG-349	
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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PAGE 2 OF 3

01.	Switch board cabinet Make : SSK On Board Sr no : 2019/07/158 HT Panel Sr no : 2019/07/239	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: 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 : LIGHT ENGG.	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

Senior Section Engineer
Quality control / Electrical
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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: W4K5A 201366	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2955	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 earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119242265	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 : 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

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली,
Sr. Electrical Engineer / RCF / RBL