



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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1205
(DEEN DAYALU)

RLY	S	W	R	Coach No.	1	9	7	7	1	5	/	C	DATE OF DISPATCH	0	7	-	1	2	-	1	9
DISPATCH TO	Sr.DME/SBC			Type	L	W	S	-	-	-	Shell No.	9	6	0	5	4	FUR.NO.	DDG-177			

- Railway Board's Order No. : 2019/M(C)/142/2, Dated: 21.11.2019
- Tare Weight of Coach : 40.66 Tonnes
- Carrying Capacity : (a) Seating: 100 (b) Luggage: NIL
- Special features -

S NO	DESCRIPTION	MAKE/SUPPLIER
A.	Cushion transverse side luggage rack which can serve as seat during rush	M/s-ACME INDIA NEW DELHI
B.	Honey comb partition frame.	M/s-ACME INDIA NEW DELHI
C.	DGFRP/GFRE paneling.	M/s-ACME INDIA NEW DELHI
D.	Lavatory with DGFRP/GFRE paneling.	M/s-ACME INDIA NEW DELHI
E.	Additional Hand hold.	M/s-ACME INDIA NEW DELHI
F.	Counter top wash basin.	M/s-ACME INDIA NEW DELHI
G.	Gel coating & Anti Graffiti measures.	M/s- VIBGYOR
H.	Fire Extinguishers	M/s-ATTAC FIRE
I.	Air spring in secondary suspension (capacity-140KN).	M/S-TAYAL&CO
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 & Faiveley) letter no.MC/LHB/Brake, Dated 27.09.2018	

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	1) 1104 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S-SFPL	12
		NPP END M/S-SFPL	12
	Complete	M/S-SFPL	12
2.	Lav. side wall	M/S- MIDAS GUJRAT	LAV.1 - LAV.2 -
		M/S- MIDAS GUJRAT	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	44/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	44/02
4.	End wall	PP END M/s-RAIL TECH KXH	---
		NPP END M/s-RAIL TECH KXH	---
5.	Roof	M/s- UNIVERSAL	07
6.	Centre Buffer Coupler	M/S- ESCORTS	PP END 1007 NPP END 1952

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ± 0.15 kg/cm ² . OK	09 sec. 3.0 kg/cm ² 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	M/S- VIBGYOR	SUPPLY & APPLY	90/89	27.07.19
	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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DISPATCH	Sr.DME/SBC	Type	L	W	S	Shell No.	9	6	0	5	4	FUR.NO	DDG-177
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191985				191986			
Bogie Type	FIAT				FIAT			
Frame no.	RBL-LS5-1254				RBL-LS5-1263			
Bolster no.	RBL-LS5-584				RBL-LS5-580			
Axle No	19 R-3306 RWF		19 S - 2785 RWF		19 S - 1992 RWF		19 L - 5594 RWF	
Wheel Dia	917.55	917.53	917.569	917.566	917.566	917.563	917.573	917.585
Wheel Disc No	TZ 08-19 73025-9SJ7	TZ 08-19 73731-9SJ7	TZ 08-19 72855-9SK4	TZ 08-19 75870-9RM1	TZ 08-19 72658-9SL0	TZ 08-19 72856-9SK4	TZ 08-19 75968-9SS9	TZ 08-19 72307-9RQ5
R.B. Nos.	09-18-23337	09-18-23338	09-18-23212	09-18-22095	09-18-23051	09-18-21997	09-18-23030	09-18-22497
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. Sr.NO.19-07 2563	TAYAL & CO. Sr.NO.19-07 2441	TAYAL & CO. Sr.NO.19-07 2489	TAYAL & CO. Sr.NO.19-07 2532

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18579,18581	18569,18573
2.	Primary outer Spring	CMSTL	06-19-07A(5582,3416,3625,5516)	06-19-07A(5421,3561,3736,5581)
3.	Primary Inner Spring	CMFSK	10-18-1101-103(28,10,41,86)	10-18-1101-101(401,407,21,25)
4.	Primary Damper	KONI	03-19 (07744,07451,07042,06118)	03-19 (04356,05011,06316,06952)
5.	Secondary Damper	KONI	04-19(00330,00359)	04-19(00423,00907)
6.	Lateral Damper	KONI	04-19 02542	04-19 01886
7.	Brake Cylinder	KBI	B(9668,8716,8728,9623)K-29	B(9648,8681,8689,9656)K-29
8.	Brake Caliper	KBI	B(6514,6729,6730,6513) -29	B(6566,6636,6639,6568) -29
9.	Brake Disc	KBI	24203755 0053-42/19,24203755 0052-42/19 24203754 0046-42/19,24203754 0045-42/19	24203752 0059-42/19,24203755 0060-42/19 24203754 0047-42/19,24203754 0068-42/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN/GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	19 B-6444, 19 B-6507	19 B-6234, 19 B-6193
17.	Check Valve	KNORR	19077	19894
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	SARITA		
21.	Control Arm Upper	RVE	290819-2,210819-2,290819-2,290819-2	210819-2,110819-3,210819-3,180819-3
22.	Control Arm Lower	RVE	170819-2,170819-3,200819-2,200819-2	180819-3,180819-3,190819-1,170819-2
23.	Phonic Wheel	KBI	K-09-19	K-09-19

NOTE:-

Signature of SSE/Bogie/QC

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रेडि०का०, रायबरेली (लालगंज)



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Coach No.

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DATE OF DISPATCH

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2

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DISPATCH TO

Sr.DME/SBC

Type

L

W

S

-

-

-

Shell No.

9

6

0

5

4

FUR.NO.

DDG-177

12. TRACEABILITY OF FURNISHING ITEMS:

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- ESCORTS	2019030072
2.	Distribution valve	M/S- ESCORTS	1903A072
3.	Pull box	M/s- KBI FARIDABAD.	
4.	FIBA	M/s- KBI FARIDABAD.	PP-F18131/29
5.	Foot Step	M/s- SSPL FARIDABAD	NPP-F18125/29
6.	D-coupling arrangement	M/S- KOHINOOR, MUMBAI	
7.	Floor board	M/s TWPL MUMBAI	
8.	PVC	M/s-ACME INDIA NEW DELHI	
9.	Lavatory Inlay	M/s-ACME INDIA NEW DELHI	
10.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
11.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.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-ACME INDIA NEW DELHI	
15.	Emergency Window	M/s-ACME INDIA NEW DELHI	
16.	Hopper Window	M/s-ACME INDIA NEW DELHI	
17.	Roof ceiling	M/s-ACME INDIA NEW DELHI	
18.	Door way gangway ceiling	M/s-ACME INDIA NEW DELHI	
19.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
20.	Vestibule door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule door (NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Bio Tank	M/s-RAIL FAB KXH	
23.	Overhead Water Tank(4X390L)	M/s-AMIT ENG.BADDI(3NO), AMIT ENG MOHALI(1NO)	
24.	Bib Cock/Controlled Discharge Tap	M/s- HINDWARE HSIL PVT. LTD. GURUGRAM	
25.	Lavatory Doors	M/s-ACME INDIA NEW DELHI	
26.	Fire Extinguisher	M/s-ATTAC FIRE	PP-121287,NPP-121468
27.	Water purified	M/s-ACME INDIA NEW DELHI	WM/UF,PP-186
28.	Seat & Berth	M/s-ACME INDIA NEW DELHI	WM/UF,NPP-092
29.	Luggage Rack	M/s-ACME INDIA NEW DELHI	
30.	Light Luggage Rack	M/s-ACME INDIA NEW DELHI	
31.	RFID	N/A	

Deen Dayalu
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रेडि०का०, रायबरेली (लालगंज)





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DISPATCH TO		Sr.DME/SBC				Type		L	W	S	-	-	-	Shell No.	9	6	0	5	4	FUR.NO.	DDG-177

13. MODIFICATION (IF ANY)

NIL

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 30 months 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 date of 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/QC/MCF/RBL	Dy.CQM/MCF/RBL

गुणवत्ता विभाग
रेलवे, रायबरेली (साजगंज)

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



DQ-177



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

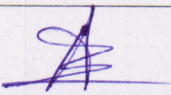
DATE: 18.01.2017

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	197715/C	TYPE COACH	LWS/DDG
RAILWAY	SWR	DATE OF DISPATCH	
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



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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 : HIND RECTIFIERS On Board Sr no : H.355.19.G.329 HT Panel Sr no : H.355.19.F.0293	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 : 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: DR AUTO	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 : ISGPL	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: W4K5G-19250	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2509	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 : AECO	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180370-59826-0054	M/s : ESCORT	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 : 09/19	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 सुविधा नियंत्रण आधुनिक / 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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