



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/296
(DEEN DAYALU)

Coach No.		1	8	4	0	9	/	C	-	DATE OF DISPATCH				1	7	-	0	7	-	1	8			
RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	3	3	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
- Tare Weight of Coach : 40.66 Tonnes
- Carrying Capacity : (a) Seating: 100 (b) Luggage: NIL

4. 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)1096 (NPPE) 2)1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS.							
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Manjit techno fab raebareli	PP END	203	NPP END	203
		Complete	M/S Manjit techno fab raebareli				
2.	Side wall		M/S V4U CONTRACTOR	RH	86033	LH	86033
3.	End wall	PP	M/s Shivalic fastners pvt.ltd. mohali	PP END	86033	NPP END	86033
4.		NPP	M/s Shivalic fastners pvt.ltd. mohali				
5.	Roof		M/S MCF				
6.	Centre Buffer Coupler		M/S Escorts ltd railway equipment FBD	PP END	3908	NPP END	3862
7.	Buffers		N.A.				

6. AIRBRAKE 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 . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	06 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

7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S GS	SUPPLY & APPLY	77/88
2.	Insulation			Satisfactory	

Deen Dayalu
SSE/QC/MCF/RBL

वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रायबरेली, रायबरेली (उत्तरप्रदेश)



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/296
(DEEN DAYALU)

Coach No.	1	8	4	0	9	/	C	DATE OF DISPATCH	1	7	-	0	7	-	1	8
RLY	W	C	R	Type	L	W	S	Shell No.	8	6	0	3	3	-	-	-

8. DETAIL OF BOGIES:


ITEMS	NPP Side				PP Side			
Bogie No	180641				180642			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-0205				MCF/RBL/LS5-0084			
Bolster no.	MCF/RBL/LS5-0483				MCF/RBL/LS5-0424			
Axle No	17 W- 3110 RWF		17W 2971 RWF		17 W-3352 RWF		17 W- - 7891 RWF	
Wheel Dia	917.549	917.559	917.573	917.59	917.527	917.538	917.546	917.542
Wheel Disc No	TZ03-17 07921-70J8	TZ03-17 03814-70H3	TZ03-17 03813-7NK9	TZ03-17 03812-7NK9	TZ03-17 03480-7NL0	TZ03-17 01077-7NK6	TZ03-17 01079-7NL0	TZ03-17 01078-7NL0
R.B. Nos.	02-18 15077	01-18 28635	02-18 13039	01-18 28740	02-18 13027	01-18 29646	02-18 12881	11-17 24794
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1188	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1185	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1169	TAYAL COMMERCIAL PVT.LTD SR.NO- 18-05-1231

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	SV	533,433	109,476
2.	Primary outer Spring	CMGBD	04-18 1100-49(272,206,275,247)	04-18 1100-22(268,265,065,030)
3.	Primary Inner Spring	CMGBD	04-18 1101-36 (56,103,115,13)	04-18 1101-36(147,20,21,540)
4.	Primary Damper	KNORR	12-17(13624,13097,13088,13635)	12-17(13513,13103,13515,13972)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	GEREP	KW 17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	KBI	A(3991,5041,5070,5466)K29	A(5471,5067,5042,5459)K29
8.	Brake Caliper	KBI	A(3991,4073,4072,3990)-29	A(3992,4071,4074,3989)-29
9.	Brake Disc	FAV	05-18(4875,4874,4893,4892)D133561-300	05-18(5147,5148,4901,4900)D133561-300
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Leveling Valve	ESCORT	1805,1805	1805,1805
17.	Check Valve	ESCORT	1805	1805
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	KUMAR	N9631,N7910,D0809,N8810	N9811,N9308,N9812,N9814
22.	Control Arm Lower	KUMAR	N9844,N5210,D0691,N9642	D3637,D9310,D9630,N9041


 Signature of SSE/Bogie/QC


MCF/RBL



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/296
(DEEN DAYALU)

Coach No.	1	8	4	0	9	/	C	-	DATE OF DISPATCH	1	7	-	0	7	-	1	8
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	3	3	-	2	0	1	8	-	1	9
-----	---	---	---	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER		SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi		0689 14/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi		2018D4776
3.	Pull box	M/s KBI Faridabad. New Delhi		
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END	1108/29
			NPP END	1120/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad		
6.	D-coupling arrangement	M/s-ELASTOMER MUMBAI		
7.	Floor board	M/s TWPL MUMBAI		
8.	PVC	M/s Premier polyfilm, New Delhi		
9.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari		
10.	UIC Vestibule (PPE)	M/s-ELASTOMER MUMBAI		
11.	UIC Vestibule (NPPE)	M/s-ELASTOMER MUMBAI		
12.	Gangway Bridge mounting(PPE)	M/s COMPTENT ENG.WORKS JALANDHAR		
13.	Gangway Bridge mounting(NPPE)	M/s COMPTENT ENG.WORKS JALANDHAR		
14.	Body Side Window	M/s EXCEL IND. Kolkata		
15.	Emergency Window	M/s EXCEL IND. Kolkata		
16.	Hopper Window	M/s Aikon ind.salon H.P		
17.	Roof ceiling	M/s ACME INDIA NDLS		
18.	Door way gangway ceiling	M/s ACME INDIA NDLS		
19.	Body Side Doors 3,6	M/s JVR IND.LDH		
20.	Body Side Doors 1,2,4,5	M/s SUKATA CDG		
21.	Vestibule door(PPE)	M/s-JBM faridabad		
22.	Vestibule door (NPPE)	M/s-JBM faridabad		
23.	Bio Tank ,	M/s FLASH GORGE VIZAG		
24.	Overhead Water Tank(4X390L)	M/s AMIT ENG. MOHALI		
25.	Bib Cock/Controlled Discharge Tap	M/s ACME INDIA NDLS		
26.	Lavatory Doors	M/s ACME INDIA NDLS		
27.	Fire Extinguisher	M/s A.K.IND.NDLS		NPP-1475,PP-1436
28.	Water purified	M/s PRAG LKO		NPP-2/364,PP-2/359
29.	Seat & Berth	M/s DURABLE IND. PVT.LKO		
30.	Luggage Rack	M/s DURABLE IND. PVT.LKO		
31.	Light Luggage Rack	N/A		

Deen Dayalu
SSE/QC/MCF/RBL

मुख्यतः विभाग
रेलवे, रायबरेली (लागूगंज)



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/296
(DEEN DAYALU)

Coach No.		1	8	4	0	9	/	C	-	DATE OF DISPATCH				1	7	-	0	7	-	1	8				
RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.		8	6	0	3	3	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. 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 qualityrcfbl@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.

 वरिष्ठ अनुसंधान अभियंता SSE/QC/MCF/RBL रेडिओका, रायबरेली (लालगंज)	 AME/QC/MCF/RBL सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. COM/MCF/RBL Joginder Singh उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager 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 NON AC DD COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES

SHELL/COACH NO	18409/C	TYPE COACH	LWS/DDG
RAILWAY	WCR	DATE OF DESPATCH	
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
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 NON AC DD COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-718 HT Panel Sr no : AE/USBC-700	EDTS 333, Rev `01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTRA 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 : CG POWER LTD, ELECTROWAVES LTD	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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/80Q1

REV NO: 00

DATE: 18.01.2017

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC DD COACHES

PAGE 3 OF 3

09.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: 184384	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-17017267	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 : ISG	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 : 0118104942	M/s : KNORR	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : SOUTHERN Lug date : 11/2017	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

 SSE/EL/QC	 SEE(P)/MCF/RBL DyCEE/P&P/MCF/RBL
----------------------	---

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / लालगंज / रायबरेली
S.S.E/EL-QC/M.C.F./L.M.RBL

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

