



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/2017-18/ 631
(DEEN DAYALU)

Coach No.	1	7	4	3	8	/	C	-	DATE OF DISPATCH	1	2	-	0	3	-	1	8
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	S	W	R	Type	L	W	S	-	-	-	Shell No.	7	6	0	6	7	-	2	0	1	7	-	1	8
-----	---	---	---	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

- Railway Board's Order No. : 2016/M(C)/142/2, Dated 01.01.2017
- 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)1100 (NPPE) 2)1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Indira ind.ranipet chennai	PP END	02	NPP END	02
		Complete	M/S Indira ind.ranipet chennai				
2.	Side wall		M/s-MCF/RBL	RH	76067	LH	76067
3.	End wall	PP	M/S E.c.blades & tool pvt. Ltd CDG	PP END	76067	NPP END	76067
4.		NPP	M/s KEPL/Punchkula				
5.	Roof		M/S MCF/ (Contractor)				
6.	Centre Buffer Coupler		M/S Escorts ltd railway equipment FBD	PP END	1364	NPP END	1366
7.	Buffers		N.A.				

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> Reduce pressure of BP from 5.0 to 3.4 kg/cm². Max. pressure in BC All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	7sec. 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	80/91
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि0का0, रायबरेली (जालमंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 00

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2017-18/631
(DEEN DAYALU)

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

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	170285				170286			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1513				SCI/FM-1310			
Bolster no.	VS-42				AAL-MCF-016			
Axle No	17C-0056-RWF		17B-9491-RWF		17B-9672-RWF		17B-8263	
Wheel Dia	917.486	917.482	917.485	917.459	917.496	917.479	917.497	917.505
Wheel Disc No	TZ-05-17-16915-70P7	TZ-05-17-16442-70N6	TZ-05-17-16441-70N6	TZ-05-17-16074-70M9	TZ-05-17-15855-7PK6	TZ-05-17-12467-70N3	TZ-05-17-20560-7PN4	TZ-05-17-124666-70N3
R.B. Nos.	09-17-13081	09-17-11993	09-17-13069	09-17-13020	9-17-13322	9-17-11815	9-17-13043	9-17-11897
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	ACPL-3566-09-17	ACPL-3565-09-17	ACPL-3663-10-17	ACPL-3564-10-17

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	SV	11,579	32,296
2.	Primary outer Spring	CMGBD	05-17-1100-49(1008,1014,583,1007)	05-17-1100-49(584,998),05-17-1100-42-561,05-17-1100-39-993
3.	Primary Inner Spring	CMFSK	03-17-1101-306(132,152,338,205)	03-17-1101-306(172,466,218),06-17-1101-232-210
4.	Primary Damper	KNORR	09-17(11342,11334,11663,11660)	09-17(11580,11336,11372,11343)
5.	Secondary Damper	IAF	02-17(175205,175272)	02-17(175190,175271)
6.	Lateral Damper	GEREP	KW17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	FAV	A18(263,442,365,285)	A18(261,408,361,287)
8.	Brake Caliper	FAV	B18(218B,216B,104B,106B)	B18(217B,215B,103B,105B)
9.	Brake Disc	KBI	K-24119145-0008-52/17, K-24119144-0012-52/17, K-24119145-0009-52/17, K-24119144-0009-52/17,	24119119-0019-52-17,24119149-0001-52-17,24119107-0006-52-17,24119107-0009-52-17
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI 10-17		
14.	Ball joint traction lever	BONY/AR		
15.	Ball joint traction centre	AR/GMT		
16.	Leveling Valve	ESCORT	1801	2017,1801
17.	Check Valve	ESCORT	1801	1801
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ GMT		
20.	Fork make	SARITA		

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/2017-18/ 631
(DEEN DAYALU)

Coach No.	1	7	4	3	8	/	C	-	DATE OF DISPATCH	1	2	-	0	3	-	1	8
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	S	W	R	Type	L	W	S	-	-	-	Shell No.	7	6	0	6	7	-	2	0	1	7	-	1	8
-----	---	---	---	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	L17032B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	17105569B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END 629/29 NPP END 1001/29
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s A.K. ENT. KOLKATA	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
10.	UIC Vestibule (PPE)	M/s Cemcon ind.DLI	
11.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
12.	Gangway Bridge mounting(PPE)	M/s Mahaveer matel works Kapurthala	
13.	Gangway Bridge mounting(NPPE)	M/s Mahaveer matel works Kapurthala	
14.	Body Side Window	M/s Century poly ind.ltd. vadodara	
15.	Emergency Window	M/s Century poly ind.ltd. vadodara	
16.	Hopper Window	M/s shatabdi safety glass vadodara	
17.	Roof ceiling	M/s Century poly ind.ltd. vadodara	
18.	Door way gangway ceiling	M/s Century poly ind.ltd. vadodara	
19.	Body Side Doors	M/s sukata CDG	
20.	Vestibule door(PPE)	M/s KALSI LDH	
21.	Vestibule door (NPPE)	M/s KALSI LDH	
22.	Bio Tank	M/s Rasandik eng. ltd	
23.	Overhead Water Tank(4X390L)	M/s Rubicon STEEL MOHALI	
24.	Bib Cock/Controlled Discharge Tap	M/s Jaquar LTD ALWAR RAJISTHAN	
25.	Lavatory Doors	M/s ACME INDIA	
26.	Fire Extinguisher	M/s SAFTEY	NPP-2940,PP-2869
27.	Water purified	M/s Prag Polymer, Lucknow	NPP-2/060,PP-2/116
28.	Seat & Berth	M/s Century poly ind.ltd. vadodara	
29.	Luggage Rack	M/s Century poly ind.ltd. vadodara	
30.	Light Luggage Rack	M/s Century poly ind.ltd. vadodara	

SSE/QC/MCF/RBL

वारि०अनु० अभियंता

गुणवत्ता विभाग

रेडि०का०, रायबरेली (लालगंज)



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/2017-18/ 631
(DEEN DAYALU)

Coach No.	1	7	4	3	8	/	C	-	DATE OF DISPATCH	1	2	-	0	3	-	1	8
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

RLY	S	W	R	Type	L	W	S	-	-	-	Shell No.	7	6	0	6	7	-	2	0	1	7	-	1	8
-----	---	---	---	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---

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 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.

S.S.E/QC/MCF/RBL	A.M.E/QC/MCF/RBL	Dy.CQM/MCF/RBL

गुणवत्ता विभाग
रेडिंकॉड, रायबरेली (लालगंज)

जी.एस. पाण्डेय
G.S. Pandey
सहायक यांत्रिक अभियंता/ गुणवत्ता
Assistant 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



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	17438/C	TYPE COACH	LWS DF
RAILWAY	SWR	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 : ISG On Board Sr no : 17-12-0091 HT Panel Sr no : 17-12-0086	EDTS 333, Rev `01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : MAAVE	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 : KAPSONS	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: K-LITE	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/8001

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 : NEC	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INDO	LW 71002,Alt-F	01
11.	Regulated battery charger Make : AAL Sr no: BCH 061710287	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-16016068	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
14.	Feeder junction boxes. Make : ELECOS	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : CHANDA	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no: 36/17/1026	M/s : FAIVELEY	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 : 04/17	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	SEE(P)/MCF/RBL
DyCEE/P&P/MCF/RBL	DyCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
लखनऊ/लालगंज/रायबरेली
SSE/EL-QC/M.C.F./LLJ/RBL

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

