



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 289

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

- Railway Board's Order No. : 2015/M(C)/142/1 Dated. 18.05.2016
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) 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/-15	1)1101 (NPPE) 2)1101 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

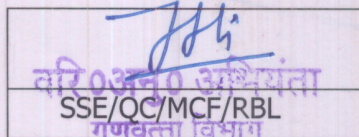
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part M/s E.C.Blade & Tool Chandigarh	PP END 67111 NPP END 67111
		Complete M/s-MCF/RBL	
2.	Side wall	M/s-MCF/RBL	RH 67111 LH 67111
3.	End wall	PP- M/s Rail tech KXH	PP END 67111 NPP END 67111
		NPP- M/s Rail tech KXH	
4.	Roof	M/s-Pennar Industries Ltd. Thiruvallur	
5.	Centre Buffer Coupler	M/s ESCORTS	PP END 6030 NPP END 6483
6.	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	7 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	AVERAGE GLOSS VALUE
1.	Paint	P.U	AXALTA	93/90
2.	Insulation		Satisfactory	



रेडिओका, रायबरेली (लालगंज)

LSCN-1802



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/289

Coach No.	1	6	2	7	3	/	C	-	DATE OF DISPATCH	1	1	/	1	2	/	1	6
-----------	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

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

8. DETAIL OF BOGIES :

ITEMS	PP Side				NPP Side			
Bogie No	160630				160629			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-221				VS/RBL-230			
Bolster no.	AMIT ENGG.-72				MCF/RBL-686			
Axle No	S-1830 RWF		S- 1934 RWF		S- 2865RWF		S- 1903 RWF	
Wheel Dia	917.263	917.328	917.284	917.332	917.318	917.366	917.291	917.288
Wheel Disc No	00026-6109 07-16	0093-6109 07-16	00136-6109 07-16	00155-6109 07-16	00121-6109 07-16	00135-6109 07-16	00190-6103 07-16	00183-6068 07-16
R.B. Nos.	06-16 04835	08-15 07581	05-16 04328	08-15 07332	06-16 04857	04-15 05604	05-16 04199	08-15 07677
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	DN150-1237	DN15G911	DN150-1371	DN15G835	DN150-2212	DN15G-808	DN150-1800	DN15G-842
Compressed Ht. at Tested Load	512	471	511	468	513	472	515	472
Alignment deviation (mm)	12	6	14	9	9	14	6	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Primary outer Spring	G	G 16-5	G 16-5
2.	Primary Inner Spring	G	G16-6	G16-6
3.	Primary Damper	GREEP	KW24-2016 301530049	KW24-2016 301530049
4.	Secondary Damper	KONI	24-2016 (8385,8367)	24-2016 (8374,7973)
5.	Lateral Damper	S.V	12-2015 018497	12-2015 018497
6.	Brake Cylinder	FAV	H16(234,244,245,235)	H16(096,221,222,091)
7.	Brake Caliper	FAV	H16(696,695,693,694)B	H16(517,518,520,519)B
8.	Brake Disc	KBI	24082891 0035-30/16,24082891 0037-30/16 24082891 0028-30/16,24082891 0026-30/16	24082887 0011-29/16,24082884 0004-29/16 24083568 0029-31/16,24083568 0019-31/16
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	SARITA/EMSON		
12.	Traction lever make	JL.12.15		
13.	Ball joint traction lever	S.BLOC/SGA		
14.	Ball joint traction centre	SGA		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	EMSON		
18.	Roll Link make	SARITA/GMT		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 289

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

11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	H16051B
2.	Pull box	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	
3.	DV	M/s Favieley Transport India Kathe Bhatoli, Baddi, Distt:- solan (HP)	16085564B
4.	PVC	M/s Premier Polyflim Ltd. DLI	
5.	UIC Vestibule (PPE)	M/s Sun crest Industries West Bengal	
6.	UIC Vestibule (NPPE)	M/s Sun crest Industries West Bengal	
7.	Foot Step	M/s Hi-tech Infra RBL	
8.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
9.	Decoupling arrangement	M/s Kohinoor Industries, Faridabad	
10.	Body Side Window	M/s AGF Pvt. Ltd , Kolkata	
11.	Emergency Window	M/s AB Composites, Kolkata	
12.	Hopper Window	M/s Rail Tech, KXH	
13.	Non-AC Area Ceiling	M/s Gandhi Safe & Allied, Jalandhar	
14.	Body Side Doors	M/s JBM , Faridabad/Sukata, CDH	
15.	Vestibule Door(PPE)	M/s Kalsi, LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi, LDH	
17.	Bio Tank	M/s Rail Fab, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank (2X685L)	M/s Amit Engg, Mohali Punjab	
20.	Under Slung Water Tank (1X450L)	M/s Shivalik Fasteners, Mohali Punjab	
21.	Bib Cock/Controlled Discharge Tap	M/s KPR Industries, Mohali	
22.	Lavatory Doors	N/A	
23.	Seat & Berth	M/s Savitri Engg. Products Paonta Sahib	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

[Signature]
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेलवे कारखाना, रायबरेली (ल.क.ज.)





Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 00

DATE:

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2016-17/ 289

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

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL: NIL

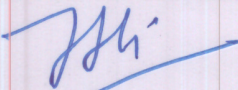
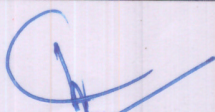
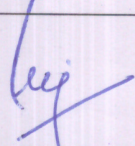
S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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

 वरिष्ठ अभियंता SSE/OC/MCF/RBL गुणवत्ता विभाग रेडिंकॉ, रायबरेली (लालगंज)	 असिस्टेंट मेकानिकल इंजीनियर/गुणवत्ता असिस्टेंट मेकानिकल इंजीनियर/गुणवत्ता आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy.CME/FUR/MCF/RBL उप मु.या.अभि./फनि. DY CME/FURNISHING रेल कोच फैक्ट्री / रायबरेली / लालगंज RCF / RBL / LLJ
---	---	---

SCN-182



**Govt. of India- Ministry of Railways
(MODERN COACH FACTORY RAEBARELI)**



MCF/RBL/QEFSCN-8001

VER. 01.06.2016

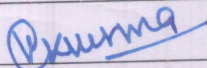
PAGE 1 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH		LWSCN	SHELL/COACH NO	16273/C
RAILWAY		CR	DATE OF DESPATCH	
Sr no	Description of test			Remarks
1.	PUMP EQUIPMENTS			OK
2.	LIGHTS, NL,LAP 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



Govt. of India- Ministry of Railways
(MODERN COACH FACTORY RAEBARELI)



MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

PAGE 2 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : SSK On board Sr no : 2016.07.051 HT panel Sr no : 2016.07.038	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr No PA: 2016/08/045 Sr no.1: 16060164 Sr no.2: 16060089 Srno.CPA: 2016/08/0101	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	04
04.	Lavatory light fitting assly	LW 76001,Alt nil	04
05.	Fitment of Passenger Alarm cum indication light (PACIL).	As per drg no. LW 76005,Alt -e 02 nos	
06.	Fitment of Switch Plate Assly(Cabin Side)	EDML 086, Rev-03.	10
07.	Fitment of Switch Plate Assly Corridor Side)	EDML 086, Rev 03.	10
08.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: CROMPTON GREAVES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
09.	Fitment of Fluorescent light fitting for LHB type coaches.	LW 76033,Alt` c,	04
10.	Fitment of Fluorescent light fitting, SINGLE with 110V AC/DC ballast.	CC 76213,Alt` d'.	24
11.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches	CC76289 & CC76443	10

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



**Govt. of India- Ministry of Railways
(MODERN COACH FACTORY RAEBARELI)**



MCF/RBL/QEFSCN- 8001

VER. 01.06.2016

PAGE 3 OF 3

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

12.	Fitment of Compact Fluorescent Light fitting DOUBLE with 110V AC/DC ballast.	CC 76216, Alt `c'.	02
13.	FL Tubes, 02 Feet ,18Watt ,colour temp 6500K	RDSO/PE/SPEC/TL 0011, Sec I, Rev I, 07 2001.	24
14.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
15.	Battery fuse box -ve Make : AECO	LW 71002,Alt-F	01
16.	Regulated battery charger Make : HI REL Sr no: 16070039	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : PANTRONICS Sr no : 15015560	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
18.	ZS coupling 400A/750V/03Ph/50hz. Make : S INTERNATIONAL	As per spec No EDTS 105,Rev`e' Am-2	02 sets
19.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	02
20.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
21.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 31/16/411	M/s : FAIVELEY	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/2016	RDSO/pe/spec/ac-0009 rev-1-2008 amdt-1	01 set
23.	Battery box for LHB coaches.	CC 91205	01

SSE/EL/QC	Dy CEE(P)/MCF/RBL

वरिष्ठ खण्ड अभियन्ता
विद्युत उत्पादन-गुणवत्ता
रेल कोच फैक्टरी / लालगंज / रायबरेली
Sr. Section Engineer

उप मुख्य विद्युत अभियन्ता (उत्पादन)
रेल कोच फैक्टरी-रायबरेली, लालगंज
MCF/RBL/AL