



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/2016-17/ 395

Coach No.				1	6	2	5	4	/	C	-	DATE OF DISPATCH					3	1	0	1	2	0	1	7
RLY	C	R	-	Type	L	W	S	C	N	Shell No.		6	7	1	3	5	-	2	0	1	6	-	1	7

1. Railway Board's Order No. : 2016/M(C)/142/1 Dated- 18.05.2016
2. Tare Weight of Coach : 41.24 Tones
3. 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)1095 (NPPE) 2)1096 (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	67135	NPP END	67135
		Complete	M/s-MCF/RBL				
2.	Side wall		M/s-MCF/RBL	RH	67135	LH	67135
3.	End wall		PP- M/s E.C.Blade & Tool Chandigarh	PP END	67135	NPP END	67135
			NPP- M/s E.C.Blade & Tool Chandigarh				
4.	Roof		M/s-DTL Ancillaries Ltd. PUNE				
5.	Centre Buffer Coupler		M/s ESCORTS	PP END	6523	NPP END	6538
6.	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	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 DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s GS	91/88
2.	Insulation		Satisfactory	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)





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Rolling Stock Certificate No.: WSC 1122																								
Coach No.		1	6	2	5	4	/	C	-	DATE OF DISPATCH					3	1	/	0	1	/	1	7		
RLY	C	R	Type		L	W	S	C	N	Shell No.		6	7	1	3	5	-	2	0	1	6	-	1	7

8. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	160852				160851			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-185				ECBT-184			
Bolster no.	AMIT-119				AMIT-117			
Axle No	S-1916		S-2867		S - 3112		S - 1769	
Wheel Dia	917.464	917.466	917.457	917.456	917.357	917.414	917.330	917.368
Wheel Disc No	00159-6177 09-16	0009-6188 09-16	00001-6188 09-16	00032-6188 09-16	ZB-2014-301 11605-W474	07302-00138 VR 15	ZB-2014-077 11605-W474	06227-00057 VR 15
R.B. Nos.	09-16 07381	07-16 05915	09-16 07543	07-16 05774	03-16 86789	02-16 84057	03-16 87171	03-16 87325
CT R B Make	TIMKEN		TIMKEN		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	G-16-5A-430-002	G-16-6-43T-070	G-16-5-43T-023	G-16-6-412-43T-191	G-16-5-036-44	G16-6-067-44	G-16-5-055-44T	G-16-6-066-44T
Compressed Ht. at Tested Load	512	468	513	412	514	470	514	471
Alignment deviation (mm)	1	9	2	10	3	6	5	7

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Primary outer Spring	G	G16-8	G16-8
2.	Primary Inner Spring	G	G 16-8	G 16-8A, G 16-8
3.	Primary Damper	KONI	06-2016 (34076,33917,33676,33889)	06-2016 (34098,34061,34252,34091)
4.	Secondary Damper	KONI/GREEP	40-2016(10019,10055)	KW-44/2016 (301550739)
5.	Lateral Damper	SV/KONI	12-15 018497	12-15 018497
6.	Brake Cylinder	FAV	L16(211,195,196,209)	M16(029,152,146,080)
7.	Brake Caliper	FAV	L16(213,214,216,215)B	M16(031,030,029,032)B
8.	Brake Disc	FAV	10-16(5168,5167) D 133561-300 11-16(5747,5748) D 133561-300	11-16(5872,5871)D-133561-300 10-16(5181,5183)D-133561-300
9.	Ball Joint Control Arm	MGN		
10.	Lateral Bump Stop	MGN		
11.	Traction Centre make	EMSON/SARITA		
12.	Traction lever make	SARITA		
13.	Ball joint traction lever	S/BLOC		
14.	Ball joint traction centre	GMT		
15.	Secondary Rubber Pad	TECSPAK		
16.	Rubber Spring	GMT		
17.	Anti roll bar make	SARITA		
18.	Roll Link make	SARITA/SGA		
19.	Fork make	SARITA		

Signature of SSE/Bogie/QC



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RLY	C	R	-	Type	L	W	S	C	N	Shell No.	6	7	1	3	5	-	2	0	1	6	-	1	7
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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)	M16010B
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)	16115510B
4.	PVC	M/s Responsive Industries, Mumbai	
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 Aikon Technologies Pvt. Ltd. Solan(H.P.)	
13.	Non-AC Area Ceiling	M/s J.R. Industries, Jalandhar	
14.	Body Side Doors	M/s JBM, Faridabad	
15.	Vestibule Door(PPE)	M/s Kalsi, LDH	
16.	Vestibule Door(NPPE)	M/s Kalsi, LDH	
17.	Bio Tank	M/s Rail Tech, KXH	
18.	Auxiliary Water Tank	M/s Manoj Enterprises Mohali Punjab	
19.	Under Slung Water Tank (2X685L)	M/s Shivalik Fasteners, 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 Oriental veneer Products Ltd Mumbai	
24.	Snack Table	M/s Gandhi Enterprises, Jalandhar	

[Signature]
SSE/QC/MCF/RBL
वरिष्ठ अनुसंधान अभियंता

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)





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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	REFERENCE &
			Frequency	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

SSE/OC/MCF/RBL	AME/OC/MCF/RBL	Dy.CME/FUR/MCF/RBL
गुणवत्ता विभाग	सहायक यांत्रिक अभियंता / गुणवत्ता	उप मुख्य अभियंता / फर्नि
रेडि0का0, रायबरेली (लालगंज)	Assistant Mechanical Engineer/Quality	By CME/FUR/MCF/RBL
	आधुनिक रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना लालगंज, रायबरेली
	Modern Coach Factory, Raebareli	Modern Coach Factory Laiganj, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	16254/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	

[Signature]
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 3377/355/077 HT Panel Sr no : 3377/355/077	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA: 2016/08/041 Sr no 1: 16070236 Sr no.2: 16070251 Srno.CPA: 2016/08/0058	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

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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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 : INTEG	LW 71002,Alt-F	01
16.	Regulated battery charger Make : HIREL Sr no: 16080079	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
17.	9KVA transformer Make : VIMAL Sr no : 550	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 : NEC	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 : 39/16/676	M/s : FAIVELEY	01 set
22.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : AMARARAJA Lug date : 12/2016	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
Electric Production - Quality
RCF / RBL / LLJ

उप मुख्य विद्युत अभियन्ता (उत्पादन)
रेल कोच फैक्टरी-रायबरेली, लालगंज
DY.CEE/P-RCF/RBL/LLJ



RCF/RBL