



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/2018-19/595

RLY	C	R	-	Coach No.	1	8	1	7	7	0	/	C	DATE OF DISPATCH	3	0	-	0	9	-	1	8
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DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	3	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M(C)/142/2 Dated-14-09-2018
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL
- 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) 1098 (NPPE) 2) 1101 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S RADHE ENG. MAS 10
		Complete	NPP END M/S RADHE ENG. MAS 10
2.	Lav.side wall	M/S JSL COMP.	LAV.1 ----- LAV.2 -----
		M/S JSL COMP.	LAV.3 ----- LAV.4 -----
3.	Side wall	LH SIDE	MCF/RBL (CONTRACTOR V4U) 102
		RH SIDE	MCF/RBL (CONTRACTOR V4U) 102
4.	End wall	PP END	M/s Shivalic fastners pvt.ltd. mohali ---
		NPP END	M/s Shivalic fastners pvt.ltd. mohali ---
5.	Roof	MCF/RBL	33
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7237 NPP END 7139

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	08Sec. 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	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -BERGER	Supply & apply	88/88
2.	Insulation			Satisfactory	

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

रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	5	3	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181180				181179			
Bogie Type	FIAT				FIAT			
Frame no.	AML-33				AML-028			
Bolster no.	VS-97				AMIT-621			
Axle No	18 F- 9058 RWF		18 F- 8443 RWF		18 F- 8173 RWF		18 F- 9192 RWF	
Wheel Dia	917.423	917.673	917.483	917.689	917.395	917.624	917.417	917.647
Wheel Disc No	TZ06-18 30739-8RH3	TZ05-18 23608-8QG7	TZ05-18 23603-8QG7	TZ05-18 23604-8QG7	TZ06-18 30741-8RH3	TZ06-18 30740-8RH3	TZ05-18 23605-8QG7	TZ07-18 34726-8QP5
R.B. Nos.	05-18 27195	05-18 36435	05-18 36850	04-18 25444	05-18 28105	04-18 23618	04-18 26266	05-18 36457
CT R B Make	SKF		SKF		SKF		SKF	

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.	CMGBD06-18- 5101-78-125	CMGBD03-18- 5100-40-567	CMGBD06-18- 5101-78-142	CMGBD03-18- 5100-41-345	CMGBD06-18- 5101-78-188	CMGBD01-17- 5100-139-37	CMGBD06-18- 5101-78-133	CMGBD03-18- 5100-40-578
Compressed Ht. at Tested Load	514	472	514	471	516	471	516	472
Alignment deviation (mm)	9	12	7	12	9	7	6	5

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	31,,34	41,35
2.	Primary outer Spring	CMGBD	06-18 1100-72(432,9,125,7)	06-18 1100-72(202,13,214,206)
3.	Primary Inner Spring	CMGBD	05-18-1101-56(306,257,274,311)	05-18-1101-56(260,267,300,301)
4.	Primary Damper	KNORR	07-18(27234,27229,27210,27230)	05-18(20191,20190),06-18 (24007,24006)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4107	06-18 3772
7.	Brake Cylinder	ESCORT	44664,44434,44435,44666	45114,37724,44357,45115
8.	Brake Caliper	ESCORT	24723,24615,24616,24725	25053,20934,24538,25054
9.	Brake Disc	FAV	09-18(1640,1639),08-18 1523,09-18 1838 - D133561-300	08-18 118,09-18 (1636,1739,1738)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA/SF		
13.	Traction lever make	JI/SF		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA /EMSON		
19.	Roll Link make	SARITA /AR,SF/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	200818-1,190818-3,190818-3,190818-3	190818-3,200818-1, 190818-3, 190818-3,
22.	Control Arm Lower	RVE	140818-1,140818-1,060818-1,290818-3	RVE,160818-1,RVE,140818-1

Signature of SSE/Bogie/QC



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DISPATCH TO		Sr.DME(COG)BB			Type	L	W	S	C	N	1	Shell No.	8	7	1	5	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 Escorts ltd railway equipment FBD	2018080033
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8033
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHINOOR IND JALANDHER	
6.	Floor board	M/S Shri ram pnl, govindgerh (PB)	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s OASIS INDS. JAGADHARI	
9.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
10.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
11.	Gangway bridge mounting (PPE)	M/s RAKESH IRON STORE, KXH	
12.	Gangway bridge mounting (NPPE)	M/s RAKESH IRON STORE, KXH	
13.	Body Side Window	M/s EXCEL .KOLKATA	
14.	Emergency Window	M/s AGF .KOLKATA	
15.	Hopper Window	M/s Aikon ind.salon H.P	
16.	Side panel	M/S- SUNGLOW LAMINATE, PUNJAB	
17.	Roof ceiling	M/s -SYANTHETIC KOLKATA	
18.	Door way ceiling	M/s RAJA INDS. KHANNA	
19.	Body Side Door,	M/s JVR LDH	
20.	Vestibule Door(PPE)	M/s KALSI LDH	
21.	Vestibule Door(NPPE)	M/s KALSI LDH	
22.	Bio Tank	M/s FLASH FORGE VIZAG	
23.	Auxiliary Water Tank	M/s MANOJ . mohali	
24.	Under Slung Water Tank(2X685L)	M/s AMIT ENG. . BADDI	
25.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. . mohali	
26.	Flexible Faucet	M/s KAPCO VALVES,JALANDHAR	
27.	Lotah Filler Tap	M/S KAPCO VALVES,JALANDHAR	
28.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
29.	Lavatory Doors	M/s Kalsi LDH	
30.	Seat & Berth	M/s OVPL MUMBAI	
31.	Snack Table	N/A	

Signature
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिका0, रायबरेली (लालगज)



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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 & PERIOD OF TRIAL
			Frequency	

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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 अधिकारी गुणवत्ता विभाग रीडि०का०, रायबरेली (लालगंज)	 सहायक रात्रिक अधिकारी/गुणवत्ता-1 Assistant Manager (Quality) आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 ज्योतिर सिंह Dy. QM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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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	181770/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





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : ISG On Board Sr no : 17-10-0007 HT Panel Sr no : 17-10-0117	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/018 Sr no.1 : 18060260 Sr no.2 : 18060232 Sr no.CPA: 2018/09/030	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : CG POWER.	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : INTRA ELECT.	CC76289 & CC76443	10

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11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : NAREN ELECT. Sr no: 1808387	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : -1014	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : ELECOS	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : S.INTERNATIONAL. CHANDA & CHANDA ENGG.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 170325-12253-0012	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 12/17	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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

