



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/2018-19/1000

RLY	E	R	-	Coach No.	1	9	1	0	0	5	/	C	DATE OF DISPATCH	0	7	-	0	1	-	1	9
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DISPATCH TO	CWM/LILUAH	Type	L	W	S	C	N	1	Shell No.	8	7	3	8	0	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2, Dated-17-09-2018
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/-10	1) 1098 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame Front Part	PP END M/S- KANSAL ENG.	14
		NPP END M/S- KANSAL ENG.	14
	Complete	M/S- KANSAL ENG.	14
2.	Lav. side wall	M/S- RAIL FAB. KXH	LAV.1 - LAV.2 -
		M/S- RAIL FAB. KXH	LAV.3 - LAV.4 -
3.	Side wall	M/s- ECBT, CDG	42
		M/s- ECBT, CDG	42
4.	End wall	PP END M/s- RAIL TECH, KXH	---
		NPP END M/s- P.D. STEEL, PANCHKULA	---
5.	Roof	M/s- PIL	226
6.	Centre Buffer Coupler	M/S- DELLNER INDIA PVT.LTD.	PP END 3005 NPP END 3014

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	07 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 -VIBGYOR	Supply & apply	90/89
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

वरिष्ठ अनु अभियंता

गुणवत्ता विभाग

रेडिंकॉ, रायबरेली (उत्तर प्रदेश)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182326				182325			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1053				ECBT-1054			
Bolster no.	RBL-2316				MCF/RBL-1947			
Axle No	18 F - 2514 RWF		18G-1105 RWF		18G-2760 RWF		18 G -0674 RWF	
Wheel Dia	917.483	917.611	917.446	917.564	917.484	917.593	917.485	917.626
Wheel Disc No	TZ04-18 15269-8MW9	TZ05-18 26200-8MR1	TZ05-18 24318-8PR7	TZ05-18 23169-8QG6	TZ05-18 21406-8PQ5	TZ05-18 26186-8MR1	TZ05-18 18528-8PN2	TZ05-18 23624-8QG7
R.B. Nos.	05-18 13517	07-18 41543	06-18 16992	07-18 41648	05-18 40931	05-18 41071	05-18 13519	07-18 41011
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.	CMFSK12-18-5101-512-74	CMRSK05-18-F08-N73-08Y-118	CMFSK12-18-5101-512-77	CMRSK05-18-F08-N73-08Y-1103	CMFSK12-18-5101-512-68	CMRSK09-15-F08-N58-08Y-1399	CMFSK12-18-5101-512-45	CMRSK12-16-F08-N12-08Y-1897
Compressed Ht. at Tested Load	513	471	512	472	515	515	513	472
Alignment deviation (mm)	9	5	8	5	12	12	10	6

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1345,1845	1947,1932
2.	Primary outer Spring	CMGBD	10-18 1100 121 (215,330,283,264)	10-18 1100-121(281,318,295,258)
3.	Primary Inner Spring	CMGBD	03-18-1101 (32-2662,30-2749,30-2759,30-2671)	03-18(1037-30-281,1101-31-2675,1101-31-2655,1037-30-2756)
4.	Primary Damper	KNORR	05-18(20316,20304,21813,20343)	05-18(20314,20305,20345,20340)
5.	Secondary Damper	GEREP	16-2018 301550739	16-2018 301550739
6.	Lateral Damper	SV	01-18 019949	01-18 019949
7.	Brake Cylinder	FAV	L18(650,508,552,638)	L18- (641,551,259,269)
8.	Brake Caliper	FAV	M18(680,678,605,607)B	M18(608,606,397,399)B
9.	Brake Disc	FAV	12-18(6856,6854,6556,6555)D133561-300	12-18(6550,6554,6551,6549)D133561-300
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	231018-3,RVE,211018-1,031118-1	031018-2,031018-3,031018-2,RVE
22.	Control Arm Lower	RVE	RVE,171018-1,161018-4,181018-3	161018-4,161018-4,180918-3,031018-1

Signature of SSE/Bogie/QC





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11. TRACEABILITY OF FURNISHING ITEMS:

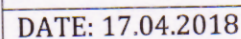
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	M 18041 B
2.	Pull box	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
3.	Distribution valve	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18115597 B
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/s- EG WOOD BOARD, HYDRABAD	
7.	PVC	M/S- RESPONSIVE IND.DELHI	
8.	Lavatory Inlay	M/s- SEEMA IND. BHOPAL	
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- HAREKRISHNA INDS. KXH	
12.	Gangway bridge mounting (NPPE)	M/S- HAREKRISHNA INDS. KXH	
13.	Body Side Window	M/S- AJC, KOLKATA	
14.	Emergency Window	M/S- AGF INDS, KOLKATA	
15.	Hopper Window	M/S- RAIL TECH. KXH	
16.	Side panel	M/S-SUNGLOW PUNJAB LAMINATE	
17.	Roof ceiling	M/S- AB COMPOSIT ,KOLKATA	
18.	Door way ceiling	M/s- RAJA IND. KHANNA	
19.	Body Side Door	M/S- JVR INDUSTRIES ,LDH	
20.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. BADDI	
25.	Under Slung Water Tank (1X685L)	M/s- AMIT ENG. MOHALI	
26.	Controlled Discharge Tap	M/s- AGMECO PVT. LTD. UK	
27.	Lavatory Doors	M/s- KALSI, LDH	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/s- SUKATA, CDG	
31.	Snack Table	N/A	

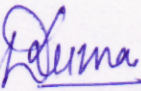

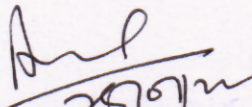
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेडिओ कार, रायबरेली (आलय)



 वरिष्ठ अधिकारी अभियंता SSE/QC/MCF/RBL गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)	 सहायक यंत्रिक अभियंता/गुणवत्ता II AME/QC/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	 Dy. Chief Quality Engineer Dy. QC/MCF/RBL ज्य. मुख्य गुणवत्ता अभियंता आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly
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SCN-844



Modern Coach Factory Raebareli
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DOC NO.: MCF/RBL/QEF/8001

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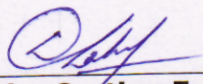
DATE:18.01.2017

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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	191005/C
RAILWAY	ER	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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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-810 HT Panel Sr no : AE/USBC-896	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/12/127 Sr no.1 : 18120037 Sr no.2 : 18120069 Sr no.CPA: 2018/12/171-DR AUTO	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: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK/SALZER	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK/SALZER	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : IMT CABLES	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: RT VISION	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: DR AUTO	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 : AGASTYA	CC76289 & CC76443	10

(Signature)

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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
13.	Regulated battery charger Make : IC ELECTRICAL Sr no: 10-18-0060	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : LHB-805	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 : NEC	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 33-18-1367	M/s : FAIVELEY	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 02/18	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

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गुणवत्ता नियंत्रण
आधुनिक डिब्बा कारखाना / 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