



Modern Coach Factory Raebareilly

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/2018-19/600

RLY	C	R	-	Coach No.	1	8	1	7	7	9	/	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	4	4	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 Dated-14-09-2018
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) 1097 (NPPE) 2) 1104 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part	PP END M/S E.c.blades & tool pvt. Ltd CDG	44
		NPP END M/S E.c.blades & tool pvt. Ltd CDG	51
	Complete	MCF/RBL	87144
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)	105
	RH SIDE	MCF/RBL (CONTRACTOR V4U)	105
4.	End wall PP END	M/s Shivalic fastners pvt.ltd. mohali	---
	NPP END	M/s Shivalic fastners pvt.ltd. mohali	---
5.	Roof	MCF CONT.	43
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7124 NPP END 7110

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 DAETAILS:

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	89/88
2.	Insulation			Satisfactory	

SSC/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, रायबरेली (सहायक)





MODERN COACH FACTORY, RAEBARELI

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RLY	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	4	4	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181382				181381			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-741				ECBT-742			
Bolster no.	SFPL-267				SFPL-261			
Axle No	18 D- 8095 RWF		18 D - 8504 RWF		18D- 8167 RWF		18D - 8510 RWF	
Wheel Dia	917.590	917.569	917.535	917.649	917.521	917.606	917.526	917.589
Wheel Disc No	TZ03-18 06993-8MP4	TZ02-18 06382-8MQ7	TZ02-18 06025-8MQ7	TZ02-18 06020-8MJ6	TZ03-18 07522-8MP7	TZ03-18 07521-8MP7	TZ03-18 07738-8MV9	TZ03-18 07519-8MP7
R.B. Nos.	04-18 22284	04-18 23396	02-18 13567	04-18 23416	04-18 22152	04-18 23492	04-18 22289	04-18 23918
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- 5101-78-135	CMGBD03-18- 5100-40-560	CMGBD06-18- 5101-78-123	CMGBD03-18- 5100-40-572	CMGBD06-18- 5101-78-441	CMGBD03-18- 5100-41-664	CMGBD06-18- 5101-78-148	CMGBD03-18- 5100-14-488
Compressed Ht. at Tested Load	513	470	514	471	516	472	516	471
Alignment deviation (mm)	7	11	6	11	6	6	6	6

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	184,172	181,39
2.	Primary outer Spring	CMGBD	06-18 1100(72-276,69-245,72-293,74-248)	06-18 1100(72-45,77-247,42-257,72-290)
3.	Primary Inner Spring	CMGBD	04-18-1101 (36-542,57-230,36-500,36-334)	05-18-1101-36(406,395,349,371)
4.	Primary Damper	KNORR	07-18(27855,27854,27842,26707)	07-18(27858,27867,27841,26719)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4230	06-18 4232
7.	Brake Cylinder	ESCORT	44237,44153,44152,44239	44202,49172,44173,44203
8.	Brake Caliper	ESCORT	24417,24333,24332,24419	24382,24352,24353,24383
9.	Brake Disc	FAV	08-18(865,1004,894,897)D133561-300	08-18(1077,1074,1246,1245) D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	RVE,020818-3,140618-1,030718-2,	230718-3,190618-2,040818-4,180618-1
22.	Control Arm Lower	RVE	010718-1,030818-3,030818-3,030718-2	RVE,030818-2,010718-1,RVE

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 Escorts ltd railway equipment FBD	201808021
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A0021
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
6.	Floor board	M/S TWPL MUMBAI	
7.	PVC	M/s ACME INDIA NDLS	
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 COMPETENT ENG.JALANDHAR	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENG.JALANDHAR	
13.	Body Side Window	M/s ACME INDIA NDLS	
14.	Emergency Window	M/s ACME INDIA NDLS	
15.	Hopper Window	M/s ACME INDIA NDLS	
16.	Side panel	M/s ACME INDIA NDLS	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way ceiling	M/s ACME INDIA NDLS	
19.	Partition frame	M/s ACME INDIA NDLS	
20.	Partition pillar	M/s ACME INDIA NDLS	
21.	Body Side Door 2,3	M/s JVR LDH	
22.	Body Side Door 1	M/s SUKATA CDG	
23.	Body Side Door 4	M/s JBM Faridabad	
24.	Vestibule Door(PPE)	M/s KALSI LDH	
25.	Vestibule Door(NPPE)	M/s KALSI LDH	
26.	Bio Tank	M/s FLASH FORGE VIZAG	
27.	Auxiliary Water Tank	M/s MANOJ ENT . mohali	
28.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
29.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. mohali	
30.	Flexible Faucet	M/s ACME INDIA NDLS	
31.	Lotah Filler Tap	M/s ACME INDIA NDLS	
32.	Controlled Discharge Tap	M/s HINDWARE ,(HSIL LTD) GURGAON	
33.	Lavatory Doors	M/s ACME INDIA NDLS	
34.	Seat & Berth	M/s ACME INDIA NDLS	
35.	Snack Table	N/A	

SSE/QC/MCF/RBL

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रेडिंकॉ, रायबरेली (लाल-न)



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12. MODIFICATION (IF ANY) : Partition frame & Partition pillar

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.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)

सहायक यांत्रिक अभियंता/गुणवत्ता-1
Assistant Mechanical Engineer / Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

जोगिन्दर
उप मुख्यालय
Dy. Chief QM
आधुनिक रेल डिब्बा कारखाना
Modern Coach Factory





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	181779/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 : 17-10-0002 HT Panel Sr no : 18-07-0104	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 7309/07/18 Sr no.1 : 294518 Sr no.2 : 294519 Sr no.CPA: 7299/07/2018	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 : IMT CABLE LTD.	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: 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 : INTRA ELECT.	CC76289 & CC76443	10


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Quality control / Electrical
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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 : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : NAREN ELECT. Sr no: 1808421	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : -971	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 : MAA LAXMI INDUSTRIES	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 : ESCORT Sr no : 180055-59399-0041	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
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गुणवत्ता नियंत्रण
आधुनिक डिब्बा / 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

