

LSCW-748



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/2018-19/697

RLY	E	C	o	Coach No.	1	8	2	1	5	6	/	C	DATE OF DISPATCH	2	7	-	1	0	-	1	8
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DISPATCH TO	Sr.CDO/VSKP	Type	L	W	S	C	N	1	Shell No.	8	7	1	7	8	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M(C)/142/2, Dated-27-08-2018
- 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/-10	1) 1105 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part	PP END M/s- NECHD	9/2018
		NPP END M/s- NECHD	9/2018
	Complete	MCF/RBL	87178
2.	Lav.side wall	M/s- JSL, HARYANA	LAV.1 --- LAV.2 ---
		M/s- JSL, HARYANA	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE M/s- CONTRACTOR V4U, LUCKNOW	150/01
		RH SIDE M/s- CONTRACTOR V4U, LUCKNOW	150/02
4.	End wall	PP END M/s- AMIT ENGG. MOHALI	---
		NPP END M/s- NECHD, CHANDIGARH	2018
5.	Roof	M/s- JSL, GURUGAON	24
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 9267 NPP END 9210

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	90/89
2.	Insulation			Satisfactory	

S. S. S. S. S.
 SSE/QC/MCF/RBL



MODERN COACH FACTORY, RAEBARELI

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

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181630				181629			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1137				SCI-2029			
Bolster no.	APEX-290				APEX-296			
Axle No	18 E- 8548 RWF		18 E- 5414 RWF		18 E- 0070 RWF		18 E-8471 RWF	
Wheel Dia	917.465	917.545	917.540	917.549	917.447	917.522	917.467	917.534
Wheel Disc No	TZ07-18 32678-8QM2	TZ07-18 34125-8QN3	TZ06-18 34055-8RG9	TZ08-18 34131-QN3	TZ07-18 31615-8QM3	TZ07-18 31614-8QM3	TZ07-18 31616-8QM3	TZ06-18 29210-8QM9
R.B. Nos.	06-18 126140	06-18 12358	06-18 11788	06-18 12353	06-18 11644	06-18 12226	06-18 12675	06-18 10778
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.	CMGBD10-17- 5100-104-73	CMGBD03-18- 5100-41-194	CMGBD09-18- 5101-55-197	CMGBD03-18- 5100-41-172	CMGBD09-17- 5101-98-84	CMGBD03-18- 5100-41-434	CMGBD04-18- 5101-55-218	CMGBD03-18- 5100-40-446
Compressed Ht. at Tested Load	514	469	516	471	516	472	516	470
Alignment deviation (mm)	7	11	7	11	6	5	6	6

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	916,1010	939,922
2.	Primary outer Spring	CMGBD	05-17 1100(42-247,46-281,42-231,39-266)	05-17 1100(39-353,42-96,39-149,42-120)
3.	Primary Inner Spring	CMGBD	05-18-1101(56-1178,56-1147,57-987,56-988),	05-18-1101(56-917,56-1115,56-1192,57-1139),
4.	Primary Damper	KNORR	05-18(19565,21200),07-18(26526,27603)	05-18(19562,26492,26523,26504)
5.	Secondary Damper	GEREP	KW 12-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	05-18 3388	05-18 3387
7.	Brake Cylinder	KBI	A(8240,7605,7697,8274)K29	A(8258,7684,7704,8095)K29
8.	Brake Caliper	KBI	A(6556,6591,6589,6562)-29	A(6561,6588,6587,6572)-29
9.	Brake Disc	KBI	24158718 0011-37/18,24158717 0016-37/18 24158717 00022-37/18,24158717 0023-37/18	24158713 0006-36/18,24158712 0024-36/18 24158715 0047-37/18,24158716 0032-37/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	S-BLOC		
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/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	090918-3,110918-1,100918-1,RVE	110918-3,110918-1,090918-3,110918-1
22.	Control Arm Lower	RVE	RVE,060918-4,070918-2,070918-2	070918-3,040918-1,070918-2,040918-1

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- KBI FARIDABAD. NEW DELHI	1537 34/18
2.	Pull box	M/S- KBI FARIDABAD. NEW DELHI	
3.	Distribution valve	M/S- KBI FARIDABAD. NEW DELHI	2018 H 5929
4.	Foot Step	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
5.	Decoupling arrangement	M/s- KOHINOOR INDUSTRIES, JALANDHAR	
6.	Floor board	M/s- SHRI RAM GOVINDGERH (PB)	
7.	PVC	M/s- PREMIER POLYFILM, GAZIABAD	
8.	Lavatory Inlay	M/s-OASIS IND. 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- MAHAVEER METAL WORKS, KXH	
12.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13.	Body Side Window	M/S AGF INDS, KOLKATA	
14.	Emergency Window	M/S AGF INDS, KOLKATA	
15.	Hopper Window	M/s- BEI PUT LTD. PUNJAB	
16.	Side panel	M/S-SUNGLow PUNJAB LAMINATE	
17.	Roof ceiling	M/S- SYNTHETIC MODULAR KOLKATA	
18.	Door way ceiling	M/s RAJA IND. KHANNA	
19.	Body Side Door	M/s JVR INDS, LDH	
20.	Vestibule Door(PPE)	M/s JBM, FARIDABAD	
21.	Vestibule Door(NPPE)	M/s JBM, FARIDABAD	
22.	Bio Tank	M/S-M.K. METAL PARTS, MUMBAI	
23.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
24.	Under Slung Water Tank(2X685L)	M/s- SHIVALIK FAST, MOHALI	
25.	Under Slung Water Tank (1X685L)	M/s- AMIT ENG. MOHALI	
26.	Controlled Discharge Tap	M/s KALSI PUMPS, JALANDHER	
27.	Lavatory Doors	M/s- KALSI INDS. LUDHINA	
28.	Flexible Faucet	M/s- KAPCO VALVES, JALANDHAR	
29.	Lotah Filler Tap	M/s- KAPCO VALVES, JALANDHAR	
30.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
31.	Snack Table	N/A	

[Signature]
SSE/QC/MCF/RBL

वरिष्ठ अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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 qualityrcfrbl@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.COM/MCF/RBL

रेडिडका०, रायबरेली (लालगंज)

सहायक यांत्रिक अभियन्ता/गुणवत्ता-1
Assistant Mechanical Engineer / Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली

उप मुख्य गुणवत्ता अधिकारी
Dy. Chief Quality Control
आधुनिक रेल डिब्बा कारखाना, रायबरेली



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
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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	182156/C
RAILWAY	ECoR	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 : SSK On Board Sr no : 2017-08-232 HT Panel Sr no : 2017-10-303	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/113 Sr no.1 : NIL Sr no.2 : 18070239 Srno.CPA: 2018/09/046-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: 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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

11.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : BHASIN Sr no: 09181391	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017729	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES.	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 : DARSHAN INTERPRISES.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118135199	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/16	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 रेल डिब्बा कारखाना / रायबरेली
S.S.E./Elect-QC/M.C.F./RBL

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

