

LSCW-39



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/2018-19/701

RLY	E	Co	R	Coach No.	1	8	2	1	6	8	/	C	DATE OF DISPATCH	2	7	-	1	0	-	1	8			
DISPATCH TO		Sr.CDO/VSKP		Type	L	W	S	C	N	1	Shell No.	8	7	2	0	4	-	2	0	1	8	-	1	9

- 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) 1098(NPPE) 2)1099(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/S AMIT ENG. MOHALI	04
		NPP END M/S AMIT ENG. MOHALI	04
	Complete	M/S AMIT ENG. MOHALI	04
2.	Lav.side wall	M/S JSL LIFE STYLE HR	LAV.1 - LAV.2 -
		M/S JSL LIFE STYLE HR	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	148
		RH SIDE MCF/RBL (CONTRACTOR V4U)	148
4.	End wall	PP END M/S AMIT ENG.	---
		NPP END M/S AMIT ENG.	--
5.	Roof	MCF/RBL	62
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 8510 NPP END 8470

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	08 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 -BERGER	Supply & apply	91/89
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL
वार ०५ नु ० अधिसंता



MODERN COACH FACTORY, RAEBARELI

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DOC NO.: MCF/RBL/QMF 8002

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Coach No.										1	8	2	1	6	8	/	C	-	DATE OF DISPATCH					2	7	.	1	0	.	1	8
RLY	E	Co	R	-	Type	L	W	S	C	N	1	Shell No.		8	7	2	0	4	-	-	-	-	-	-	-	-	-	-	-		

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181593				181594			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-2033				SCI/FM-2025			
Bolster no.	VS-238				APEX-384			
Axle No	18 B - 3570 RWF		18E - 7937 RWF		18 E - 8322 RWF		18 E - 8388 RWF	
Wheel Dia	917.54	917.57	917.556	917.581	917.521	917.543	917.549	917.561
Wheel Disc No	TZ07-18 33916-8RG5	TZ07-18 34843-8QP5	TZ06-18 31415-8QL9	TZ07-18 34718-8RG2	TZ07-18 34717-8RG2	TZ07-18 33912-8RG5	TZ06-18 31416-8QL9	TZ07-18 33912-8RG5
R.B. Nos.	05-18 28509	05-18 12379	05-18 39971	05-18 12047	05-18 28512	05-18 12071	05-18 37051	05-18 12076
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.	CMGBD11-17- 5101-116-116	CMGBD03-18- 5100-41-484	CMGBD11-17- 5101-116-54	CMGBD03-18- 5100-40-466	CMGBD10-17- 5101-104-30	CMGBD03-18- 5100-40-481	CMGBD09-17- 5101-98-38	CMGBD03-18- 5100-40-473
Compressed Ht. at Tested Load	515	471	515	471	515	472	515	472
Alignment deviation (mm)	7	12	7	12	6	11	6	6

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	536,534	537,529
2.	Primary outer Spring	CMFSK	04-18 1100-402(346,333,74,122)	04-18 1100-402(409,220,160,361)
3.	Primary Inner Spring	CMGBD	05-18-1101 (57-1017,57-949,56-1183,56-954),	05-18-1101 (56-989,57-736,56-1006,56-984)
4.	Primary Damper	KNORR	05-18(20638,20618,20631,20649)	05-18(21223,20654,20646,20633)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	03-18 1934	03-18 1933
7.	Brake Cylinder	KBI	A(8208,7516,7505,8220)K29	A(8084,8251,7279,8083)K29
8.	Brake Caliper	KBI	A(6514,6429,6428,6575)-29	A(6381,6546,6547,6380)-29
9.	Brake Disc	FAV	24158704 0057-35/18,24158716 0051-37/18 24158716 0052-37/18,24158716 0013-37/18	24158701 0029-35/18,24158702 0003-35/18 24158701 0056-35/18,24158701 0056-35/18
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG		
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	100918-2,100918-1,RVE,RVE	110918-2,RVE,090918-3,RVE
22.	Control Arm Lower	RVE	040918-2,RVE,070918-2,RVE	070918-3,150918-1,060918-4,040918-1

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.CDO/VSKP	Type	L	W	S	C	N	1	Shell No.	8	7	2	0	4	-	2	0	1	8	-	1	9
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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	1538 34/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018H5898
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.	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENG.	
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 2,4	M/s JVR LDH	
22.	Body Side Door 1,3	M/s JBM FARIDABAD	
23.	Vestibule Door (PPE)	M/s JBM FARIDABAD	
24.	Vestibule Door (NPPE)	M/s JBM FARIDABAD	
25.	Bio Tank 2,3,4	M/s M.K. METAL	
26.	Bio Tank 1,	M/s FLASH FORGE	
27.	Auxiliary Water Tank	M/s AMIT . 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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DISPATCH TO	Sr.CDO/VSKP	Type	L	W	S	C	N	1	Shell No.	8	7	2	0	4	-	2	0	1	8	-	1	9
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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 Frequency	REFERENCE & PERIOD OF TRIAL

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.COM/MCF/RBL

परिचालन अभियंता
गुणवत्ता विभाग
रेडिओ रायबरेली (लालगंज)

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

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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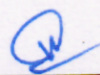
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	182168/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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
DATE:18.01.2017

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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 : 2017-08-231 HT Panel Sr no : 2017-10-283	EDTS 333, Rev` 01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/097 Sr no.1 : 18090050 Sr no.2 : 18090062 Srno.CPA: 2018/09/038	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: ELECTROWAVES 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: 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 : NEC	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 09180592	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017758	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 earthling equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118326083	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

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आउटरीडिंग/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