

LS(12-728



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/2018-19/624

RLY	C	R	-	Coach No.	1	8	1	7	7	8	/	C	DATE OF DISPATCH	1	0	-	1	0	-	1	8	
DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	6	0	-	2	0	1	8	-	1	9

- 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

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) 1100 (NPPE) 2) 1102 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S DTL ancillaries ltd pune
		NPP END	M/S DTL ancillaries ltd pune
	Complete	M/S DTL ancillaries ltd pune	01
2.	Lav.side wall	M/S JSL COMP.	01
		M/S JSL COMP.	LAV.1 ----- LAV.2 -----
3.	Side wall	LH SIDE	LAV.3 ----- LAV.4 -----
		RH SIDE	115
4.	End wall	PP END	MCF/RBL (CONTRACTOR V4U)
		NPP END	MCF/RBL (CONTRACTOR V4U)
		M/s Shivalic fastners pvt.ltd. mohali	115
5.	Roof	M/s Shivalic fastners pvt.ltd. mohali	---
6.	Centre Buffer Coupler	MCF/RBL	---
		M/S Sanrok faridabad	44
		PP END	8498
		NPP END	8512

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 -GS	Supply & apply	91/89
2.	Insulation			Satisfactory	

अभिदंता
SSE/QC/MCF/RBL
रेलवे कारखाना रायबरेली (लालमंज)



MODERN COACH FACTORY, RAEBARELI
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
REV NO.: 01
DATE: 16.05.2016

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

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181490				181489			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1083				MCF/RBL-1077			
Bolster no.	AMIT-666				AMIT-500			
Axle No	17 Z- 4724 RWF		17 Z- 4775 RWF		17 Z- 4817 RWF		17 Z- 4755 RWF	
Wheel Dia	917.658	917.603	917.668	917.621	917.634	917.605	917.656	917.601
Wheel Disc No	TZ06-18 28472-8RG1	TZ06-18 28476-8RG1	TZ07-18 31815-8RH5	TZ07-18 31816-8RH5	TZ06-18 30678-8QNO	TZ06-18 30679-8QNO	TZ06-18 28473-8RG1	TZ06-18 28475-8RG1
R.B. Nos.	05-18 12249	05-18 28948	05-18 12697	05-18 39415	05-18 12550	05-18 11508	05-18 12965	05-18 28913
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.	CMGBD09-17- 5101-98-216	CMGBD03-18- 5100-40-629	CMGBD08-17- 5101-77-207	CMGBD03-18- 5100-41-329	CMFSK01-18-5101- 344-48	CMGBD03-18- 5100-50-618	CMFSK02-18-5111- 383-5	CMGBD03-18- 5100-41-105
Compressed Ht. at Tested Load	515	472	514	470	516	472	516	472
Alignment deviation (mm)	6	11	6	11	9	12	9	12

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	392,404,	395,396
2.	Primary outer Spring	CMGBD/CMFSK	06-18 1100 (72-394,72-403,69-388,69-389)	04-18 1100-402(882,804,709,885)
3.	Primary Inner Spring	CMGBD	05-18-1101-57(1057,1174,1046,1138)	04-18-1101-36(527,261,556,330)
4.	Primary Damper	KNORR	07-18(26153,28230,28238,26138)	07-18(26124,26135,26137,26154)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	03-18 2088	06-18 3778
7.	Brake Cylinder	FAV	H18(207,252,249,184)	H18(317,186,189,315)
8.	Brake Caliper	FAV	K18(097,099,100,098)B	K18(112,114,109,111)B
9.	Brake Disc	FAV	08-18 115,09-18 1687,08-18(129,114) - D133561-300	09-18 (1788,1787,1685,1688)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	J/GMT		
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	WINLANE		
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	040818-1,RVE,RVE,280718-1	RVE,170818-2,RVE,030818-2
22.	Control Arm Lower	RVE	140818-4,140818-1,030818-1,030818-1	RVE,030818-1,030818-3,140818-1

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	6	0	-	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 Faively transport tech.india ltd baddi(HP)	D18037B
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	18045529B
5.	Decoupling arrangement	M/s-KOHINOOR 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 AGF .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 SYNTHETIC MODULAR , Kolkata	
18.	Door way ceiling	M/s RAJA INDS. KHANNA	
19.	Body Side Door,1,3	M/s SUKATA CDG	
20.	Body Side Door,2,4	M/s JVR LDH	
21.	Vestibule Door(PPE)	M/s KALSI LDH	
22.	Vestibule Door(NPPE)	M/s KALSI LDH	
23.	Bio Tank	M/s FLASH FORGE VIZAG	
24.	Auxiliary Water Tank	M/s AMIT ENG. . mohali	
25.	Under Slung Water Tank(2X685L)	M/s AMIT ENG. . BADDI	
26.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. . mohali	
27.	Flexible Faucet	M/S KAPCO VALVES,JALANDHAR	
28.	Lotah Filler Tap	M/S KAPCO VALVES,JALANDHAR	
29.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
30.	Lavatory Doors	M/s KALSI LDH	
31.	Seat & Berth	M/s OVPL MUMBAI	
32.	Snack Table	N/A	

SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०का०, रायबरेली (लालगंज)



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12. MODIFICATION (IF ANY) : Nil

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 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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. 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	सहायक अभियंता/गुणवत्ता-1 Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबंधक 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

REV NO: 00

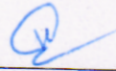
DATE: 18.01.2017

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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	181778/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 : AMIT ENGG. On Board Sr no : AE/USBC-524 HT Panel Sr no : AE/USBC-454	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 7290/7/18 Sr no.1 : 293707 Sr no.2 : 293708 Sr no.CPA: 7288/07/2018	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 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: 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

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

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 : WAVES Sr no: WEBCF-184547	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-16015897	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 : CHANDA & CHANDA ENGG.	EDTS101, REV-C, AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 03/18/179	M/s : FAIVELEY	01 set
19.	110V, 120AH, VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 07/18	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

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आपरेटिंग/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