



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/2018-19/632

RLY	N	W	R	Coach No.	1	8	1	9	4	2	/	C	DATE OF DISPATCH	1	1	-	1	0	-	1	8
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DISPATCH TO	Sr.DME(C&W)JP	Type	L	W	S	C	N	1	Shell No.	8	7	1	4	9	-	2	0	1	8	-	1	9
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- 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) 1095 (NPPE) 2) 1096 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S ROURKELA
		NPP END	M/S E.c.blades & tool pvt. Ltd CDG
	Complete	MCF/RBL	87149
2.	Lav.side wall	M/S JSL COMP.HR	LAV.1
		M/S JSL COMP.HR	LAV.3
3.	Side wall	LH SIDE	MCF/RBL (V4U CONTRACTOR)
		RH SIDE	MCF/RBL (V4U CONTRACTOR)
4.	End wall	PP END	M/s Shivalic fastners pvt.ltd. mohali
		NPP END	M/s Shivalic fastners pvt.ltd. mohali
5.	Roof	MCF/RBL	49
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 5511 NPP END 5678

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 -GS	Supply & apply	90/88
2.	Insulation			Satisfactory	

वसिष्ठ अभियंता
SSE/QC/MCF/RBL
रेलवे, रायबरेली (लालमंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	N	W	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	4	9	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181538				181537			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-1983				SCI-1997			
Bolster no.	VS-164				APEX-398			
Axle No	18 G- 3861 RWF		18 D - 8200 RWF		18 D- 9227 RWF		18 D - 8221 RWF	
Wheel Dia	917.412	917.538	917.542	917.564	917.521	917.561	917.511	917.524
Wheel Disc No	TZ07-18 34468-8QM8	TZ07-18 34697-8QL6	TZ07-18 32564-8RG7	TZ07-18 32975-8QP3	TZ07-18 33762-8RG4	TZ07-18 34784-8QN1	TZ07-18 32566-8RG8	TZ07-18 33925-8RG3
R.B. Nos.	02-18 15319	04-18 24334	02-18 15317	04-18 24511	02-18 12672	02-18 17310	02-18 15316	12-17 25519
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- 5101-116-44	CMGBD03-18- 5100-41-694	CMGBD11-17- 5101-116-35	CMGBD03-18- 5100-41-631	CMGBD11-17- 5101-116-18	CMGBD 03-18- 5100-41-590	CMGBD10-17- 5101-104-99	CMGBD03-18- 5100-41-429
Compressed Ht. at Tested Load	514	472	514	471	516	472	516	468
Alignment deviation (mm)	6	12	6	12	8	11	7	11

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1770,1813	1778,1762
2.	Primary outer Spring	CMFSK	04-18 1100-402(481,437,146,296)	04-18 1100-402(448,463,138,168)
3.	Primary Inner Spring	CMGBD	05-18-1101 56 (142,183,199,202),	05-18-1101 56 (137,258,228,152)
4.	Primary Damper	KNORR	05-18(20406,20436,20419,20424)	06-18 20396,05-18(20441,20412,20423)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	07-18 1907	03-18 1981
7.	Brake Cylinder	KBI	A(8102,7581,7582,8095)K29	A(8106,7525,2580,8101)K29
8.	Brake Caliper	KBI	A(6396,6495,6497,6398)-29	A(6408,6442,6426,6379)-29
9.	Brake Disc	FAV	09-18(2175,2170),08-18(1600,1599) -D133561-300	09-18 (1382,1384,1376,1375) D133561-300
10.	Ball Joint Control Arm	AR		
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/EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	PTC	25,128,78,76	167,178,75,189,
22.	Control Arm Lower	PTC	178,79,77,82	042,178,75,189

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	1554 34/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2018H5930
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
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 EXCEL .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 -SYANTHETIC KOLKATA	
18.	Door way ceiling	M/s RAJA INDS. KHANNA	
19.	Body Side Door,	M/s JBM IND Faridabad	
20.	Vestibule Door(PPE)	M/s JBM IND Faridabad	
21.	Vestibule Door(NPPE)	M/s JBM IND Faridabad	
22.	Bio Tank2,3,4	M/s FLASH FORGE VIZAG	
23.	Bio Tank1	M/s MOHAN RAIL	
24.	Auxiliary Water Tank	M/s AMIT ENG. . mohali	
25.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. 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 J.R.IND. JALANDHAR	
31.	Seat & Berth	M/s OVPL MUMBAI	
32.	Snack Table	N/A	

SSE/QC/MCF/RBL

रेडिफिकेशन, रायबरेली (लालगंज)



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DISPATCH TO		Sr.DME(C&W)JP		Type	L	W	S	C	N	1	Shell No.		8	7	1	4	9	-	2	0	1	8	-	1	9

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:

- 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
वरिष्ठ उपायुक्त	सहायक यांत्रिक अभियंता/गुणवत्ता	जोगिन्दर सिंह
गुणवत्ता विभाग	आधुनिक रेल डिब्बा कारखाना, रायबरेली	उप मुख्य गुणवत्ता प्रबन्धक
रेडिफिकेशन, रायबरेली (रायबरेली)	Modern Coach Factory, Raebareli	Dy. Chief Quality Manager
		आधुनिक रेल डिब्बा कारखाना, रायबरेली
		Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	181942/C
RAILWAY	NWR	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-528 HT Panel Sr no : AE/USBC-456	EDTS 333, Rev` 01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 7270/7/18 Sr no.1 : 293294 Sr no.2 : 293295 Srno.CPA: 7328/07/18	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : CONCORD CONTROL SYSTEM.	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: 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

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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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 : WAVES Sr no: WEB CG-184783	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : -972	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 : DARSHAN INTERPRISES.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0118155351	M/s : KNORR	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HLB Lug date : 07/2018	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : ANANYA	CC 91205	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

गुणवत्ता नियंत्रण
आपरेटिंग/लागू/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

