



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/2018-19/571

RLY	C	R	-	Coach No.	1	8	1	7	7	3	/	C	DATE OF DISPATCH	2	7	-	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	1	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) 1096 (NPPE) 2) 1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER		SERIAL NO				
1.	Underframe	Front Part	PP END	M/S RADHE ENG. MAS	02			
			NPP END	M/S RADHE ENG. MAS	02			
	Complete	M/S RADHE ENG. MAS		02				
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)		91			
		RH SIDE	MCF/RBL (CONTRACTOR V4U)		91			
4.	End wall	PP END	M/S amit engg.MOHALI		---			
		NPP END	M/S amit engg.MOHALI		-			
5.	Roof	M/S MCF/RBL		28				
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD		PP END	5411	NPP END	5381	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ 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	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/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	91/88
2.	Insulation			Satisfactory	

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

रेलवे सुपरवक्ता विभाग
रायबरेली, रायबरेली (जिला जं.)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181383				181384			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1036				MCF/RBL-1019			
Bolster no.	SFPL-143				SFPL-142			
Axle No	17 Z -4508 RWF		18F - 9229 RWF		17 Z - 2676 RWF		17 Z - 4490 RWF	
Wheel Dia	917.536	917.639	917.536	917.639	917.46	917.645	917.521	917.659
Wheel Disc No	TZ03-18 07020-8MX4	TZ03-18 07042-8MN9	TZ03-18 07224-8MN9	TZ03-18 07021-8MV4	TZ02-18 05477-7SH5	TZ02-18 05475-7SH5	TZ02-18 05478-7SH5	TZ02-18 05476-7SH5
R.B. Nos.	08-18 22633	02-18 15478	04-18 22178	02-18 15666	04-18 22102	02-18 12655	08-18 1289	02-18 15497
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.	CMFSK09-17-5101-79	CMGBD01-17-5100-139-74	CMFSK09-17-5101-25	CMGBD01-17-5100-03-99	CMFSK09-17-5101-30-87	CMGBD03-18-5100-40-414	CMFSK09-17-5101-320-37	CMGBD03-18-5100-40-544
Compressed Ht. at Tested Load	514.5	472	514.5	470	513	470	511.5	469
Alignment deviation (mm)	10	11	9	10	8	5	10	5

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	8825,9321	9325,8833
2.	Primary outer Spring	CMGBD	06-18 1100(72-153,69-236,62-287,71-284)	06-18 1100(79-244,67-222,69-262,72-286)
3.	Primary Inner Spring	CMGBD	03-18 1101(31-3043,30-3019,32-3100,32-2532)	03-18 1101(31-3074,32-2535,31-3033,31-3096)
4.	Primary Damper	KNORR	07-18(27901,27096,27890,27898)	07-18(27899,27097,27900,27886)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4252	06-18 4253
7.	Brake Cylinder	ESCORT	40536,40423,44146,44229	44224,44159,44158,44225
8.	Brake Caliper	ESCORT	22718,22678,24326,24409	24404,24339,24338,24405
9.	Brake Disc	FAV/KBI	08-18(1265,1266)D133561-300 24130490 0003-12/18,24130439 0019-12/18	08-18(1291,1292,1582,1290)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	WINLANE/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	030818-2,030718-1,030818-2,RVE	020818-3,300718-1,RVE,RVE
22.	Control Arm Lower	RVE	RVE,020718-1,020718-1,020718-1	030818-2,030818-2,020718-1,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	201807009
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1807A001
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 2,3,4	M/s JVR LDH	
22.	Body Side Door1,	M/s JBM, FARIDABAD	
23.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
24.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
25.	Bio Tank	M/s M.K PRECISION MUMBAI	
26.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
27.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
28.	Under Slung Water Tank (1X685L)	M/s Shivalic fastners pvt.ltd. mohali	
29.	Flexible Faucet	M/s ACME INDIA NDLS	
30.	Lotah Filler Tap	M/s ACME INDIA NDLS	
31.	Controlled Discharge Tap	M/s HINDWARE ,(HSIL LTD) GURGAON	
32.	Lavatory Doors	M/s ACME INDIA NDLS	
33.	Seat & Berth	M/s ACME INDIA NDLS	
34.	Snack Table	N/A	

SSE/QC/MCF/RBL

मुद्रांक विभाग
रायबरेली, रायबरेली (सहस्रगंज)





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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 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.

S.S.E./QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL
गुणवत्ता विभाग	Assistant Mechanical Engineer/Quality	उप मुख्य गुणवत्ता प्रबन्धक
रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना, रायबरेली	आधुनिक रेल डिब्बा कारखाना, रायबरेली
	Modern Coach Factory, Raebareli	Modern Coach Factory, Raebareli

रेल डिब्बा कारखाना, रायबरेली (संलग्नक)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	181773/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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01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-556 HT Panel Sr no : AE/USBC-632	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 7297/7/18 Sr no.1 : 293721 Sr no.2 : 293722 Sr no.CPA: 7318/07/2018	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: DR AUTO	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 : KAPSONS IND/L.E.C	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
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11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : NAREN ELECT. Sr no: 1808385	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-983	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 : ELECOS	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : ROLLING STONE LTD.	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180055-59399-0048	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA 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
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वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक डिब्बा / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

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

