



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/2018-19/577

RLY	C	R	-	Coach No.	1	8	1	7	6	7	/	C	DATE OF DISPATCH	2	8	-	0	9	-	1	8	
DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	4	1	-	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) 1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER		SERIAL NO				
1.	Underframe	Front Part	PP END	M/S E.c.blades & tool pvt. Ltd CDG	300			
			NPP END	M/S E.c.blades & tool pvt. Ltd CDG	298			
	Complete	MCF/RBL		87141				
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)		109			
		RH SIDE	MCF/RBL (CONTRACTOR V4U)		109			
4.	End wall	PP END	M/S Neera chandigarh		---			
		NPP END	M/S Neera chandigarh		---			
5.	Roof	MCF/RBL		36				
6.	Centre Buffer Coupler	M/S	Sanrok faridabad	PP END	7164	NPP END	7175	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<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	07Sec. 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	90/88
2.	Insulation			Satisfactory	

Sharma
SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अधिकारी
गुणवत्ता विभाग
रेडिंकॉ, रायबरेली (सहायक)





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	4	1	-	-	-

8. DETAIL OF BOGIES :


ITEMS	NPP Side				PP Side			
Bogie No	181445				181446			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-792				ECBT-791			
Bolster no.	VS-162				SFPL-155			
Axle No	18 F- 8572 RWF		18 F- 8077 RWF		18 F- 8825RWF		18 F- 9261 RWF	
Wheel Dia	917.448	917.589	917.487	917.575	917.464	917.616	917.498	917.674
Wheel Disc No	TZ07-18 35607-8RG2	TZ07-18 35108-8QL6	TZ07-18 35606-8RG2	TZ07-18 35587-8QN5	TZ07-18 33957-8RG3	TZ06-18 29543-8QL3	TZ07-18 35100-8RH4	TZ07-18 33958-8RG3
R.B. Nos.	05-18 27440	05-18 12721	05-18 27444	05-18 38810	04-18 24552	05-18 29527	05-18 29281	05-18 12701
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- 5101-98-76	CMGBD03-18- 5100-41-511	CMGBD08-17- 5101-77-27	CMGBD03-18- 5100-40-571	CMFSK01-18-5101- 343-93	CMGBD03-18- 5100-40-410	CMFSK01-18-5101- 343-110	CMGBD03-18- 5100-41-451
Compressed Ht. at Tested Load	513	472	515	471	512.5	472	511.5	471
Alignment deviation (mm)	9	6	6	6	13	12	13	12

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1149,1160,	1167,1151
2.	Primary outer Spring	CMGBD	06-18 1100-72(73,100,91,104)	06-18 1100-72(72,94,53,53)
3.	Primary Inner Spring	CMFSK	04-18-1101-402(755,531,718,758)	04-18-1101-402(12,114,104,719)
4.	Primary Damper	KNORR	07-18(28231,26624,28241,26671)	07-18(26676,28232,27219,26748)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 3950	06-18 3951
7.	Brake Cylinder	ESCORT	44598,44363,44362,44600	44266,44308,44310,44267
8.	Brake Caliper	ESCORT	24659,24544,24543,24661	24497,24453,24455,24489
9.	Brake Disc	FAV	07-18(28,63,21,60)D133561-300	06-18 (08,01),07-18(11,03)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		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/PARG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	140818-1,170818-2,280718-1,230718-3	RVE,120818-2, 120818-2,140818-2
22.	Control Arm Lower	RVE	030818-1,RVE,030818-3,030818-1	140818-1,170818-1, 170818-1, 170818-1,


 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	4	1	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

SNO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	2018080035
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8035
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-KOHINOOR IND 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-KIRAN RUBBER PUNE	
10.	UIC Vestibule (NPPE)	M/s-KIRAN RUBBER PUNE	
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 JVR LDH	
20.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
21.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
22.	Bio Tank1,2,3	M/s M.K. MEATAL	
23.	Bio Tank4	M/s RAIL FAB KXH	
24.	Auxiliary Water Tank	M/s MANOJ . mohali	
25.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
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

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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 &
			Frequency	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. QM/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालपुर्जा)





Modern Coach Factory Raebareli
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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	181767/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-542 HT Panel Sr no : AE/USBC-629	EDTS 333, Rev `01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/09 Sr no.1 : 18060001 Sr no.2 : 18050353 Sr no.CPA: 2018/09/048	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: 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 : -980	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	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 : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180055-59399-0033	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 12/17	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
एगरेडि०का० / लालमंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फॅक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RC / RBL / Lucknow

