



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/2017-18/413

Coach No.	1	7	9	7	3	/	C	-	DATE OF DISPATCH	1	2	-	1	2	-	1	7
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RLY	C	R	-	-	Type	L	W	A	C	C	N	Shell No.	7	3	1	8	4	-	2	0	1	7	-	1	8
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1. Railway Board's Order No. : 2017/M/(C)/142/2 dated -01-11-2017
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1104 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/s Shivalic fastners pvt.ltd. mohali	PP END	12	NPP END	12
		Complete	M/s Shivalic fastners pvt.ltd. mohali				
2.	Side wall		M/S MCF/RBL	RH	73184	LH	73184
3.	End wall	PP END	M/s Amit Engg,	PP END	73184	NPP END	73184
		NPP END	M/S Omax auto gurgaon HR				
4.	Roof		M/S MCF/RBL				
5.	Centre Buffer Coupler		M/S Escorts ltd railway equipment FBD	PP END	1720	NPP END	1734
6.	Buffers		n.a				

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/cm². ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	07 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	92/90
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL
 रायबरेली विभाग
 रेलिफ़ाउ, रायबरेली (निलगज)



MODERN COACH FACTORY, RAEBARELI

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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	170867				170868			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1235				ECBT-430			
Bolster no.	VS-31				VS-26			
Axle No	17B-9511		17B-8135		17B-8111		17B-9818	
Wheel Dia	917.459	917.497	917.471	917.541	917.457	917.525	917.450	917.519
Wheel Disc No	TZ07-17 23796-7QJ5	TZ06-17 21766-70P4	TZ05-17 19299-70K8	TZ03-17 04254-70K7	TZ06-17 23151-7QK8	TZ05-17 19300-70K8	TZ06-17 21765-70P4	TZ06-17 21764-70P4
R.B. Nos.	06-17 78848	06-17 78120	06-17 78518	05-17 58720	06-17 82721	06-17 16066	06-17 78754	06-17 78108
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.	CMGBD-08-17-83691-217	CVFSK-07-17-9513-291-58	CMGBD-08-17-83684-168	CVFSK-07-17-9513-291-36	CMFSK-04-17-F16-169-94	CVFSK-07-17-9513-291-149	CMFSK-04-17-F16-169-145	CVFSK-07-17-9513-291-157
Compressed Ht. at Tested Load	513	463	514	464	511.5	466.5	511.5	465
Alignment deviation (mm)	12	12	08	12	12	13	10	13

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GABRIEL	1912,1913	1914,1911
2.	Primary outer Spring	CVFSK	08-17-7411-303(322,211,309,230)	08-17-7411-303(301,285,220,223)
3.	Primary Inner Spring	RSK	2999,2186,3019,1925	3176,3264,3061,3280
4.	Primary Damper	KNORR	08-17(10496,10657,10498,10704)	08-17(10675,10485,10753,10499)
5.	Secondary Damper	IAI	04-17-(178319,178306)	04-17-(178317,178313)
6.	Lateral Damper	KNORR	05-17 0788	05-17 0819
7.	Brake Cylinder	ESCORT	34064,33984,34018,34098	34092,33982,34056,34238
8.	Brake Caliper	ESCORT	19138,19024,19050,19172	19166,19012,98061,19224
9.	Brake Disc	FAV	09-17-5340-D133561-300, 09-17-5341-D133561-300, 09-17-5141-D133561-300, 09-17-5140-D133561-300,	09-17-5135-D133561-300, 09-17-5134-D133561-300, 09-17-5186-D133561-300, 09-17-5187-D133561-300,
10.	Ball Joint Control Arm	S-BLOC		
11.	Lateral Bump Stop	WINLANE		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI-01-17		
14.	Ball joint traction lever	S-BLOC		
15.	Ball joint traction centre	S-BLOC		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	MTC		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ S-BLOC		
20.	Fork make	SARITA		

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	2016070011
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1607A011
4.	Foot Step	M/s Super spark pvt.ltd.faridabad	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S Narbada forest bhopal	
7.	PVC	M/s Responsive ind.mumbai	
8.	UIC Vestibule (PPE)	M/s-Sunrest ind.kolkata	
9.	UIC Vestibule (NPPE)	M/s Cemcon ind.DLI	
10.	Gangway bridge mounting (PPE)	M/s Mahaveer metal workshop KXH	
11.	Gangway bridge mounting (NPPE)	M/s Mahaveer metal workshop KXH	
12.	Body Side Window	M/s Aikon Technologies pvt.ltd. solan H.P	
13.	Emergency Window	M/s Rail tech KXH	
14.	Lavatory/hopper Window	M/s Rail tech KXH	
15.	Roof Ceiling	M/s KAE Eng.pvt.ltd.esipl U.K	
16.	Door way /gang way ceiling	M/s Gandhi Safe & Allied jalandhar	
17.	Supply Air Duct	M/s Hanspal coach products KXH	
18.	Partition panel	M/s Honey comb international bagaularu	
19.	Partition pillar	M/s Rail tech KXH	
20.	Side Wall panel	M/s-Hindustan fibre ltd vadodara	
21.	AC Trough	M/s Geepee gurgaon	
22.	Body Side Doors2,4	M/s JBM Faridabad	
23.	Body Side Doors1,3	M/s Sukata CDG	
24.	Compartment Door (PPE)	M/s Hanspal KXH	
25.	Compartment Door (NPPE)	M/s Hanspal KXH	
26.	Vestibule Door(PPE)	M/s Kalsi LDH	
27.	Vestibule Door(NPPE)	M/s Kalsi LDH	
28.	Bio Tank	M/s Rail tech KXH	
29.	Auxiliary Water Tank	M/s Amit Engg. mohali	
30.	Under Slung Water Tank (2X685L)	M/s Amit Engg, Baddi	
31.	Under Slung Water Tank (1x450 L)	M/s Amit Engg, mohali	
32.	Flexible Faucet	M/s-HF Glass vadodara	
33.	Lotah Filler Tap	M/s-Metco delhi	
34.	Bib cock	M/s Jaquar pvt.ltd. alwar Rajasthan	
35.	Lavatory Modoules	M/s-CMT machinised ltd vadodara	
36.	Lavatory Doors	M/s-Hindustan fibre ltd vadodara	
37.	Waste Bin Arrangement	M/s-CMT machinised ltd vadodara	
38.	Fire Extinguisher	M/s power Agnee new delhi	NPP-43790,PP-43738
39.	Seat & Berth	M/s-CMT machinised ltd vadodara	
40.	Light Luggage Rack	M/s- Techno ind. ALD	
41.	Snack Table	M/s- International tractors ltd. Hoshiarpur	

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेलवे, रायबरेली (उत्तर प्रदेश)





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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 & PERIOD OF TRIAL
			Frequency	

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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.

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	17973/C
RAILWAY		CR	DATE OF DESPATCH	
Sr no	Description of tests			Remarks
1.0	REFERENCE SPECIFICATION : L 446			
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.			
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01			
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.			
	Observed status : HEALTHY			
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE		OK
3.1	Fresh Air	29.57 Cub mtr/min		OK
3.2	Return Air	59.25 Cub mtr/min		OK
3.3	Exhaust Air	9.90 Cub mtr/min		OK
3.4	Conditioned Air	166.12 Cub mtr/min		OK
4.0	PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition Not done due to ambient temp. below 22°C			OK
5.0	PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition. Not done due to ambient temp. below 22°C			OK

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Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	OK
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : AMIT Sr no of RMPU (NPP side): 2013 G Sr no of RMPU (PP side) : 2016 G Sr no of Microprocessor: AE-1702409	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT Sr no : AE/SB-211	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : KIND Sr no PA : 09/17-0085 Sr no.1 : 17090479 Sr no.2 : 17090480 Sr no.CPA : 1705/1098	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : EYYYANI	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : INTRA	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : NIL	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04
11.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02

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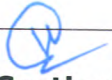
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
14.	Terminal connector Make : WAGO	EDML 037,Rev` a`	04
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 04.	09
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 05.	09
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item -16.	09
18.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am- 1,2&3	01 set
19.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 07/17	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : TECHNO	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : ISG	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : ISG	As per LW 71002,Alt- F	01


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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : M.B COMP. Sr no: 2017/09/380 Make : M.B COMP. Sr no: 2017/09/322	EDTS 163, Rev 'c' corg.- 2&3	02
24.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC-3089-LHB-116	As Per EDTS-366, REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : ISG SL.no : 17-04-0060	As per EDML-130 Rev-1, Corr-1	01
26.	60KVA transformer Make : AUTOMATIC Elect Ltd Sr no : 4/17/T 116503/157	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS) coupler Make : MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
29.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101, REV-C, AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : ESCORTS Sr no : 15874-10439-0008	M/s : ESCORTS	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : HIND RECTIFIRE	As per EDTS -139, Rev- E ,Sec II.	01

 SSE/EL/QC	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL
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गुणवत्ता नियंत्रण
आउटरेडिङका/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