



Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

आधुनिक रेल डिब्बा कारखाना, रायबरेली

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/117

RLY	C	R	-	Coach No.	1	9	3	5	1	4	/	C	DATE OF DISPATCH	3	0	-	0	4	-	1	9
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DISPATCH TO	SSE/STOCK/ CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	0	3	FUR.NO.	L3T-1150
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -03 -04-2019

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) 1105 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame Front Part	PP END M/s-TACPL	09/87
		NPP END* M/s-TACPL	09/87
	Complete	M/s-TACPL	09/87
2.	Lav. side wall	M/s-RAIL TECH, KXH	LAV.1 --- LAV.2 ---
		M/s-RAIL TECH, KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	436/01
		RH SIDE MCF/RBL (CONTRACTOR V4U)	436/02
4.	End wall	PP END M/s- OMAX ,REWARI	---
		NPP END M/s- OMAX ,REWARI	---
5.	Roof	M/s-DTL	138
6.	Centre Buffer Coupler	M/S- ESCORTS LTD RAILWAY EQUIPMENT, FBD.	PP END 9005 NPP END 9034

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	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 DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1.	Paint	P.U	M/S-VIBGYOR	SUPPLY & APPLY	91/89	24.04.19
2.	Insulation	Satisfactory				

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DISPATCH	SSE, STOCK, CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	0	3	FUR .NO	L3T-1150
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190172				190171			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-148 (AIR SPIRING)				WIL-118 (AIR SPIRING)			
Bolster no.	AMIT -07				AMIT -154			
Axle No	19 L - 6428 RWF		19 L - 8546 RWF		19 L - 6448 RWF		19 L - 6265 RWF	
Wheel Dia	917.727	917.644	917.739	917.658	917.761	917.648	917.749	917.664
Wheel Disc No	TZ 11-18 04367-8WH5	TZ 11-18 05786-8WJ9	TZ 10-18 03558-8WH6	TZ 10-18 03015-8WJ8	TZ 10-18 03510-8WJ0	TZ 10-18 03511-8WJ0	TZ 11-18 09325-8WQ3	TZ 10-18 01775-8WK3
R.B. Nos.	04-18 26609	05-18 29549	05-18 27451	05-18 38704	05-18 27445	05-18 29547	05-18 27461	05-18 29541
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	TAYAL&CO. Sr.NO.18-10 1197	TAYAL&CO. Sr.NO.18-10 1207	TAYAL&CO. Sr.NO.18-08 723	TAYAL&CO. Sr.NO.18-08 672

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	16739,16741	16725,16721
2.	Primary outer Spring	CMFSK	03-19 7411-545(1677,1196,870,725)	03-19 7411-545(1243,876,865,735)
3.	Primary Inner Spring	CMRSK	10-18 04Y(7752,7355,7807,4527)	10-18 04Y(7256,7314,7341,7850)
4.	Primary Damper	IAI	01-19 (236404,236557,236289,236648)	01-19 (236653,236504,236210,236166)
5.	Secondary Damper	KNORR	12-18 (13378,13391)	12-18 (13377,13441)
6.	Lateral Damper	IAI	11-18 229384	11-18 229326
7.	Brake Cylinder	FAV	(C19-131,819-691,C19-065,095)	(C19-096,063B19-690,C19-130)
8.	Brake Caliper	FAV	C19(875,873,889,892)B	C19(891,890,874,876)B
9.	Brake Disc	FAV	01-19 (460,459,462,461)D-133561-300	01-19 (343,340,458,457)D-133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction lever	MGN		
15.	Ball joint traction centre	PPI/AR		
16.	Leveling Valve	ESCORT/KNORR	1812, 06-18 A 8031	1812,06-18 A 7913
17.	Check Valve	ESCORT/KNORR	12-18 15397	1812
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ PPI/AR/ SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	NIPHA	1118-263,0918-290,NIPHA,0918-0297	1118-210,1118-0250,1118-076,1218-097
22.	Control Arm Lower	NIPHA	1118-240,1118-316,1118-260,1018-060	1118-060,1218-0114,1218-024,1118-263
23.	Phonic Wheel	FAV	FT/KEP/1955	FT/KEP/1955

Signature of SSE/Bogie/QC



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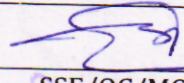
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DISPATCH TO	SSE/STOCK/ CSTM		Type	L	W	A	C	C	N	Shell No.	9	3	1	0	3	FUR.NO.	L3T-1150				

11. TRACEABILITY OF FURNISHING ITEMS:

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)	B 19132 B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19025636 B
3.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
6.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
10.	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
11.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
12.	Body Side Window	M/s- BIRKON ENGG.GZB	
13.	Emergency Window	M/s- BIRKON ENGG.GZB	
14.	Lavatory/hopper Window	M/S- AXSYS SOLUTION, DELHI	
15.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
16.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
17.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
18.	Partition panel	M/S- HONEYCOMB INTERNATIONAL, BANGALORE	
19.	Partition pillar	M/S- J.R. INDUSTRIES LTD. JALANDHAR	
20.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
21.	AC Trough	M/s- GEE PEE, GURGOAN	
22.	Body Side Door 1,3	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Body Side Door 2,4	M/s- JVR INDS, LUDHIYANA	
24.	Compartment Door (PPE)	M/S- HANSPAL TRADERS, KXH	
25.	Compartment Door (NPPE)	M/S- HANSPAL TRADERS, KXH	
26.	Vestibule Door(PPE)	M/S- HANSPAL TRADERS, KXH	
27.	Vestibule Door(NPPE)	M/S- HANSPAL TRADERS, KXH	
28.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
29.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/S RAIL FAB. KAPURTHALA	
31.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
32.	Flexible Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
33.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
34.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
35.	Lavatory Modules	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
36.	Lavatory Doors	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
37.	Fire Extinguisher	M/S- CAPITAL FIRE COM.	
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	PPE-6623 NPPE- 6589
39.	Light Luggage Rack	M/S- TECHO INDS, ALD.	
40.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALANDHAR	


SSE/QC/MCF/RBL

मुख्यवक्ता विभाग
रेडिओका, रायबरेली (लालगंज)



MCF/RBL



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DISPATCH TO	SSE/STOCK/ CSTM		Type	L	W	A	C	C	N	Shell No.	9	3	1	0	3	FUR.NO.		L3T-1150			

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, curtain 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	SME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वर्किंग यांत्रिकी/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

उप मुख्य गुणवत्ता प्रबंधक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



MCF/RBL



Modern Coach Factory Raebareli
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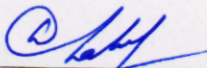
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH		LWACCN	SHELL/COACH NO	193514/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	19.46 Cub mtr/min		OK
3.2	Return Air	67.83 Cub mtr/min		OK
3.3	Exhaust Air	7.16 Cub mtr/min		OK
3.4	Conditioned Air	166.22 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


 Senior Section Engineer
 Quality control / Electrical
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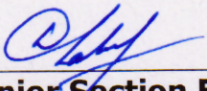
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

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 :	
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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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : AMIT ENGG. Sr no of RMPU (NPP side): 3276 A Sr no of RMPU (PP side) : 3275 B Sr no of Microprocessor: AE 19.02.198	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 353-11-2018	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/02/001 Sr no.1 : 19020004 Sr no.2 : 19020032 Sr no.CPA : 2019/02/085-DR AUTO	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 : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	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: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : CMT	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: AGASTYA	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

[Signature]
Senior Section Engineer
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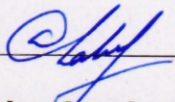
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : HBL Lug date : 12/18	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 : AECO	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : NEC	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 : NAREN ELECTRONIC Sr no: 1902576 Make : NAREN ELECTRONIC Sr no: 1902567	EDTS 163,Rev `c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT 5L 18392	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-760	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089 LHB-6250	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 : ISG	EDTS-328 REV-C	01 set
29.	Wheel set earthling equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 0069	M/s : FAIVELEY	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	00

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL