



Modern Coach Factory Raebareilly

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/2019-20/640

RLY	C	R	-	Coach No.	1	9	6	1	1	6	/	C	DATE OF DISPATCH	2	6	-	0	8	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	6	2	FUR.NO.	L3T-1240
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -03 -06-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. **Special feature:** - Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018

5. 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) 1100 (NPPE) 2) 1101 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/s-TACPL 31/87
		NPP END M/s-TACPL 31/87	
	Complete	M/s-TACPL 31/87	
2.	Lav. side wall	M/s-RAIL FAB KXH	LAV.1 --- LAV.2 ---
		M/s-RAIL FAB KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U) 46/01	
		RH SIDE MCF/RBL(CONTRACTOR V4U) 46/02	
4.	End wall	PP END M/s- RSM MOHALI ---	
		NPP END M/s- P.D. STEEL PANCHKULA ---	
5.	Roof	M/s-JSL 14	
6.	Centre Buffer Coupler	M/s- FRONTIER RANIYA KANPUR	PP END 47 P1 NPP END 189 P1

7. 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	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

8. 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-AXALTA	M/s- EMPRISE	96/95	04.08.19
2.	Insulation			Satisfactory		

SSE/QC/MCF/RBL

मुख्यता विभाग
70डि0का0, रायबरेली (लाता गज)



आधुनिक रेल डिब्बा कारखाना, रायबरेली



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	194023				194024			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-229				WIL-356			
Bolster no.	RBL-LS5-792				RBL-LS5-56			
Axle No	19 P - 1202 RWF		19 P - 7263 RWF		19 P - 7019 RWF		19 P - 2955 RWF	
Wheel Dia	917.594	917.653	917.609	917.676	917.441	917.43	917.464	917.408
Wheel Disc No	TZ 01-19 25277-9MG0	TZ 04-19 39701-9OE1	TZ 12-18 14312-8WS9	TZ 04-19 37993-9OG3	TZ 04-19 38154-9OJ8	TZ 04-19 38176-9OD4	TZ 04-19 38151-9OJ8	TZ 04-19 38150-9OJ8
R.B. Nos.	05-18 12048	05-18 12040	05-18 40248	05-18 12060	05-18 28652	05-18 39835	05-18 40334	05-18 12027
CT R B Make	SKF		SKF		SKF		SKF	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AWADH RAIL INFRA PVT.LTD Sr.NO.10-18 772	AWADH RAIL INFRA PVT.LTD Sr.NO.10-18 856	TAYAL & CO. Sr.NO.10-18 796	TAYAL & CO. Sr.NO.02-19 1387

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	13186,13169	13174,13182
2.	Primary outer Spring	CMFSK	03-19 7411-545(1523,1794,1590,1583)	03-19 7411-545(1466,1468,1637,1458)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(2098,2123,2009,2048)	05-19 7143-559(2101,1546,1848,1637)
4.	Primary Damper	KONI	03-19 (05600,04974,05236,04927)	03-19 (04528,03776,04913,03407)
5.	Secondary Damper	KNORR	02-19 (17032,17005)	02-19 (17242,17241)
6.	Lateral Damper	GABRIEL	11-18 827	11-18 830
7.	Brake Cylinder	KBI	B(5933,4986,4902,5917)K-29	B(4283,3466,3444,4286)K-29
8.	Brake Caliper	KBI	B(3362,3381,3382,3346)-29	B(1833,1836,1837,1834)-29
9.	Brake Disc	KBI	24185212 0020-15/19,24185213 0005-15/19 24185221 0045-18/19,24185220 0078-18/19	24185215 0039-15/19,24185215 0006-15/19 24185214 0010-15/19,24185214 0011-15/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI/TAJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1905,1905	1904,1904
17.	Check Valve	ESCORT	1904	1904
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/PPI,SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	RVE,270519-2,250519-3,030619-2	130419-4,030619-2,030619-2,250519-3
22.	Control Arm Lower	RVE	280519-2,270519-3,280519-3,280519-3	280519-3,280519-3,280519-2,280519-3
23.	Phonic Wheel	FAV	FT/KEP/2019	FT/KEP/2019

Signature of SSE/Bogie/QC



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ROLLING STOCK CERTIFICATE

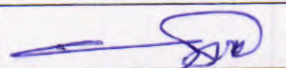
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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3213 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 G 8254
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Fiba	M/S- KBI, FARIDABAD	PP-8026/29 NPP-8033/29
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
10.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
14.	Emergency Window	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
15.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16.	Roof Ceiling	M/s- MOBILY SOLUTION LTD.MOHALI	
17.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Supply Air Duct	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/S- JR INDUSTRIES JALANDHAR	
21.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
22.	AC Trough	M/s-BHARAT FIBER , LKO	
23.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LTD.LDH	
27.	Vestibule Door(NPPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LTD.LDH	
28.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES, GURUGRAM	
29.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. BADDI	
31.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
32.	Health 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 PVT.LTD.,VADODARA	
36.	Lavatory Doors	M/S- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
37.	Fire Extinguisher	M/S- SAFETY PLUS ENGG.	PPE-2095 ,NPPE-2305
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
39.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGRAM	
40.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	


 SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 १०डि०अ०, रायबरेली



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DISPATCH TO	SSE/STOCK/CSTM				Type	L	W	A	C	C	N	Shell No.	9	3	1	6	2	FUR.NO.	L3T-1240		

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

16. 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 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	SME/QC/MCF/RBL	Dy.COM/MCF/RBL

रेडिओ, रायबरेली (लालगंज)

वरिष्ठ यंत्रिक अभियन्ता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli,

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



आधुनिक रेल डिब्बा कारखाना, रायबरेली



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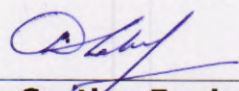
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	196116/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	19.88 Cub mtr/min		OK
3.2	Return Air	83.75 Cub mtr/min		OK
3.3	Exhaust Air	7.15 Cub mtr/min		OK
3.4	Conditioned Air	157.18 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 PP Side :20.1°C NPP Side :20.9°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.			----


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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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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): 3209 A Sr no of RMPU (PP side) : 3207 A Sr no of Microprocessor: AE 19.03.290	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : INTEG Sr no : 201906055	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/07/0079 Sr no.1 : 2838 Sr no.2 : 2887 Sr no.CPA : 2019/07/0205-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 : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO/ RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : A PAUL	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : RT VISION	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 : KAVERI	LW 76005,Alt-e	02

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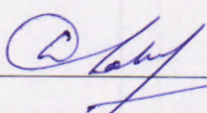
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : 01/18	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : RADIANT	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : RADIANT	As per LW 71002,Alt- F	01


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : EEC Sr no: 01190027 Make : BHASIN Sr no: 07194033	EDTS 163,Rev `c' corg.- 2&3	02
24.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC 3089 LHB-1078	As Per EDTS-366,REV- NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-1005	As per EDML-130 Rev- 1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1282	As per rdso/pe/spec/ac/0080/rev- 0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS)coupler Make: PRIME ELECT.	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 earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119101401	M/s : KNORR	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 DY CEE (PLG)/MCF/RBL

गुणवत्ता निबंधन
आरंभिक/लालगंज/रायबरेली
S.S.E/Elect-QC/M.C.F./L./RBL

सं कार्य प्रबन्धक/विद्युत
आरंभिक/रायबरेली
A.W.M./Electrical/MCF/RBL