



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/2019-20/656

RLY	C	R	-	Coach No.	1	9	6	2	4	4	/	C	DATE OF DISPATCH	2	9	-	0	8	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	2	1	1	FUR.NO.	L3T-1241
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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) 1099 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/s-DTL
		NPP END M/s-DTL	23
	Complete	M/s-DTL	23
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	154/01
		RH SIDE MCF/RBL	154/02
4.	End wall	PP END M/s- OMEX REWARI	---
		NPP END M/s- OMEX REWARI	---
5.	Roof	M/s-DTL	181
6.	Centre Buffer Coupler	M/S FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	PP END F19086 NPP END F19085

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	08 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-BERGER	SUPPLY & APPLY	90/88	04.08.19
2.	Insulation			Satisfactory		

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SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओ, रायबरेली (लातगंज)



संयोजक / गुणवत्ता



MODERN COACH FACTORY, RAE BARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	194028				194027			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-307				WIL-301			
Bolster no.	MCF RBL-LS5-859				MCFRBL-LS5-833			
Axle No	19 P - 2529 RWF		19 P - 1224 RWF		19 P - 6428 RWF		19 P - 2538 RWF	
Wheel Dia	917.588	917.506	917.637	917.526	917.605	917.503	917.616	917.507
Wheel Disc No	TZ 04-19 38172-90D4	TZ 04-19 38149-90J8	TZ 04-19 34657-90G1	TZ 04-19 34655-90G1	TZ 04-19 39549-90E9	TZ 04-19 39546-90H6	TZ 04-19 34938-90I2	TZ 04-19 38174-90D4
R.B. Nos.	05-18 28522	08-18 20387	05-18 29347	05-18 34655	05-18 29229	08-18 20409	05-18 39518	08-18 20679
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
	TAYAL & CO. Sr.NO.19-05 0627	TAYAL & CO. Sr.NO.19-05 0646	TAYAL & CO. Sr.NO.19-05 0649	TAYAL & CO. Sr.NO.19-05 0650

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	13762,14763	13192,12217
2.	Primary outer Spring	CMFSK	03-19 7411-545(1476,1344,1268,1388)	03-19 7411-545(1345,1372,1313,1450)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(959,229,1013,380)	05-19 7143-559(905,117,784,784)
4.	Primary Damper	KONI	03-19 (04932,05688,04890,03761)	03-19 (04963,04934,05253,05653)
5.	Secondary Damper	KNORR	02-19 (16729,16805)	02-19 (17020,17030)
6.	Lateral Damper	GABRIEL	11-18 928	11-18 831
7.	Brake Cylinder	KBI	B(4299,3594,5068,5884)K-29	B(5887,5057,5056,5864)K-29
8.	Brake Caliper	KBI	B(1843,1999,3399,3313)-29	B(3314,3398,3401,3311)-29
9.	Brake Disc	KBI	24185214 0017-15/19,24185215 0057-15/19 24178943 0073-14/19,24178943 0071-14/19	24173129 0079-09/19,24173129 0078-09/19 24173458 0003-09/19,24173130 0077-09/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	ARYAN/GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ/JI		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1904, 1904	1904, 1904
17.	Check Valve	ESCORT	1904	1902
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT, SARITA/BASANT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	020619-2,250619-3,250519-3,270519-3	020619-2,250519-3,270519-2,250519-3
22.	Control Arm Lower	RVE	280519-2,280519-2,270519-3,280519-2	280519-2,280519-3,270519-3,280519-2
23.	Phonic Wheel	FAV	FT/KEP/1548	FT/KEP/2019

Signature of SSE/Bogie/QC





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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3238 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 G 8258
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Fiba	M/S- KBI, FARIDABAD	PP-8022/29 NPP-7952/29
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s- SHRI RAM PANELS, PUNJAB	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
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- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/S- RELIABLE SAFETY GLASS, NOIDA	
14.	Emergency Window	M/S- RELIABLE SAFETY GLASS, NOIDA	
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- MOHAN TECH, KXH	
21.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
22.	AC Trough	M/s- MOBILY SOLUTION LTD.MOHALI	
23.	Body Side Doors 1,3	M/s- JVR INDS, LUDHIYANA	
24.	Body Side Doors 2,4	M/S- SUKATA TRACTOR PARTS LTD. PKL	
25.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
27.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29.	Bio Tank	M/s- OMAX AUTO LTD. GURGAON	
30.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. BADDI	
32.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
33.	Health Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
35.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
36.	Lavatory Modules	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
37.	Lavatory Doors	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
38.	Fire Extinguisher	M/S- SAFETY PLUS ENGG.	PPE-2094 ,NPPE-4111
39.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND. LLJ	
40.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGRAM	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेलवे, रायबरेली (लालगंज)



आधुनिक रेल डिब्बा कारखाना, रायबरेली



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DISPATCH TO	SSE/STOCK/CSTM			Type	L	W	A	C	C	N	Shell No.	9	3	2	1	1	FUR.NO.	L3T-1241			

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 Frequency	REFERENCE & PERIOD OF TRIAL

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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
6. 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 गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.CQM/MCF/RBL उप मुख्य गुणवत्ता प्रबंधक/रीड Dy. Chief Quality Manager/Shift आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

3T-1241



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES			
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES			
TYPE COACH		LWACCN	SHELL/COACH NO
RAILWAY		CR	196244/C
		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	81.57 Cub mtr/min	OK
3.3	Exhaust Air	7.15 Cub mtr/min	OK
3.4	Conditioned Air	157.66 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 :22.1°C NPP Side :21.7°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.		----

Senior Section Engineer
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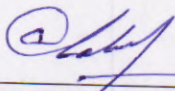
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FOR ELECTRICAL ITEMS

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 : FEEL Sr no of RMPU (NPP side): 2119001126 Sr no of RMPU (PP side) : 2119001137 Sr no of Microprocessor: 19.02.051 A PAUL	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : TRINITRON Sr no : 18/12/TCS/RBL/3423/0184/0046	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/06/0128 Sr no.1 : 19060704 Sr no.2 : 19060700 Sr no.CPA : 2019/07/018-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: DR AUTO	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

(Signature)
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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 : 09/18	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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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : EEC Sr no: 11180040 Make : BHASIN Sr no: 07194026	EDTS 163,Rev `c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : BHASIN SL.no : 09189929	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : KONTACT SL.no : KT-870	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1364	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 : SURYA	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 : 0119151722	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	AWM(ELECT.)/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आर०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LL/RBL

DY CEE (PLG)/MCF/RBL
सं० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL