



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/2019-20/735

RLY	N	W	R	Coach No.	1	9	6	4	6	2	/	C	DATE OF DISPATCH	1	9	-	0	9	-	1	9
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DISPATCH TO	Sr.DME/C&W/JP	Type	L	W	A	C	C	N	Shell No.	9	3	2	0	5	FUR.NO.	L3T-1256
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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:** - 1-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

2- RFID (Radio frequency identification) fitted for traceability of coach

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) 1105 (NPPE) 2) 1103 (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
		Complete	M/S-DTL
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	M/S-E.C.BLADES & TOOL PVT. LTD CHANDIGARH
		RH SIDE	M/S-E.C.BLADES & TOOL PVT. LTD CHANDIGARH
4.	End wall	PP END	M/s-OMEX REWARI
		NPP END	M/s-OMEX REWARI
5.	Roof	M/S -PIL	152
6.	Centre Buffer Coupler	M/S- SANROK ENG.	PP END 13092 NPP END 13066

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full application brake	➤ 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- VIBGYOR	SUPPLY & APPLY	89/89	13.08.19
2.	Insulation	Satisfactory				

वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL
रेल डिब्बा कारखाना, रायबरेली (लालाबाई)



MODERN COACH FACTORY, RAEBARELI

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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	191070				191069			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-104				ECBT-103			
Bolster no.	AMIT-77				AMIT-118			
Axle No	19 P - 0917 RWF		SCI-9832 RWF		19 R - 2684 RWF		19 P - 1254 RWF	
Wheel Dia	917.506	917.481	917.498	917.521	917.409	917.622	917.463	917.618
Wheel Disc No	TZ 05-19 50626-9PE7	TZ 05-19 43879-9PG2	TZ 05-19 47577-9PH6	TZ 05-19 50281-9PI1	TZ 05-19 50549-9PE7	TZ 05-19 49805-9PG3	TZ 05-19 45458-9OJ5	TZ 05-19 43919-9PG1
R.B. Nos.	05-18-29612	05-18-13332	05-18-29605	05-18-13510	05-18-29609	05-18-13696	05-18-29475	05-18-13502
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.	TAYAL & CO. Sr.NO.18-09 1047	TAYAL & CO. Sr.NO.18-09 1067	TAYAL & CO. Sr.NO.09-18 1076	TAYAL & CO. Sr.NO.09-18 1055

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	14710,12224	14654,14714
2.	Primary outer Spring	CMFSK	05-19 7143-545(1792,1473,1502,1522)	05-19 7143-545(1521,1495,1547,1584)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(437,982,42,127)	01-19 7143-550(267,396,352,1038)
4.	Primary Damper	KONI	03-19 (4300,0916,4639,4809)	03-19 (00947,04311,04773,04206)
5.	Secondary Damper	IAI	01-19 (248273,238086)	01-19 (238144,238024)
6.	Lateral Damper	GABRIEL	11-18 1023	11-18 1021
7.	Brake Cylinder	KBI	B(5928,5130,5132,5978)K-29	B(5980,5052,5051,5991)K-29
8.	Brake Caliper	KBI	B(3419,3488,3489,3422) -29	B(3420,3487,3486,3421) -29
9.	Brake Disc	KBI	24193649 0075-28/19,24193652 0013-28/19 24193652 0014-26/19,24193652 0017-28/19	24193659 0032-30/19,24193647 0068-28/19 24193661 0074-30/19,24172298 0048-04/19
10.	Ball Joint Control Arm	BASANT/GMT		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	RCF		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BASANT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19-B-5727,16-19-B-5970	16-19-B-3814,16-19-B-3670
17.	Check Valve	KNORR	07-19 19549	07-19 18735
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SF/AR,SF/BASANT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	130619-3,100619-3,100619-3,130619-3	020619-2,250519-2,250519-2,250519-3
22.	Control Arm Lower	RVE	240619-2,280619-3,280619-3,280619-3	240619-2,300619-3,240619-2,280519-2
23.	Phonic Wheel	KNORR	K-04-19 640209	K-05-19 640209

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	3223 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 G 8244
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	PP-7965/29 NPP-7977/29
5.	Foot Step	M/S- HITECH INR.PVT LTD RBL	
6.	D-coupling 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-SUNCREST IND.KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER METAL WORKS KXH	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER METAL WORKS KXH	
13.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/S-MOBILITY SOLUTION LTD MOHALI	
17.	Automatic smoke & heat Detection with alarm System	M/S- SANROK ,FARIDABAD	
18.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS KXH	
19.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
20.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
21.	Partition pillar	M/S-JR INDS JALANDHAR & MOHAN TECH KXH	
22.	Side Wall panel	M/S-ALEX OVER SEAS PVT LTD KXH	
23.	AC Trough	M/s- FIBRO PLASTIC PVT. LTD	
24.	Body Side Doors	M/s- JVR INDS, LUDHIYANA	
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- JSL LIFE STYLE LTD. BAHADURGARH	
30.	Auxiliary Water Tank	M/S- MANOJ ENG. MOHALI	
31.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. MOHALI	
32.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
33.	Health Faucet	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
35.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
36.	Lavatory Modules 1,3	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
37.	Lavatory Modules 2,4	M/S- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
38.	Lavatory Doors	M/S- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
39.	Fire Extinguisher	M/s-SAFE PRO FIRE SERVICE	PPE-1936,NPPE-1935
40.	Seat & Berth	M/S ANANYA RAIL RCC IND LALGANJ	
41.	Light Luggage Rack	M/S- LUCKY ENTT. GURGAON	
42.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
43.	RFID	M/S-TECH SOLUTION PVT LTD	Sr.104976-104975

अभिषेक
SSE/QC/MCF/RBL
१०/०४/२०१८, रायबरेली (लालाजी)



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

गुणवत्ता विभाग
रेडिओ, रायबरेली (लालाजी)

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

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



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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	196462/C
RAILWAY		NWR	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	19.96 Cub mtr/min		OK
3.2	Return Air	57.06 Cub mtr/min		OK
3.3	Exhaust Air	7.15 Cub mtr/min		OK
3.4	Conditioned Air	164.79 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 :20.9°C NPP Side :22.8°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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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	OK

R 407C

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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): 3759 G Sr no of RMPU (PP side) : 3760 G Sr no of Microprocessor: AE 19.03.320	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-763	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/08/0008 Sr no.1 : 2842 Sr no.2 : 2894 Sr no.CPA : 2019/08/042-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: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K.LITE	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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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 SET
14.	Terminal connector Make : WAGO	EDML 037,Rev`a`	1 SET
15.	Provision of 04 switch with socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	18
16.	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.	54
17.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am-1,2&3	01 set
18.	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
19.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
20.	Battery fuse box +ve Make : RADIANT	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : ISGPL	As per LW 71002,Alt-F	01
22.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	9

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Emergency battery charger Make : M.B & COMPANY Sr no: 201908349	EDTS 163,Rev `c` corg.-2&3	01
27.	Regulated battery charger Make : EEC Sr no: 01190076	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC 3089 LHB-997	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Provision of capacitor Bank Make : KONTACT SL.no : KT-907	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1344	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
32.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
33.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
34.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119181800	M/s : KNORR	01 set
35.	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

गुणवत्ता नियंत्रण

आपरेटिंगका/ लालगंज/ रायबरेली

S.S.E/Elect-QC/M.C.F./LLJ/RBL

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

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