



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/2019-20/699

RLY	--	C	R	Coach No.	1	9	6	2	3	5	/	C	DATE OF DISPATCH	1	0	-	0	9	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	2	1	5	FUR.NO.	L3T-1253
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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) 1104 (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
	Complete	M/s-DTL	28
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)
		RH SIDE	MCF/RBL(CONTRACTOR V4U)
4.	End wall	PP END	M/s-RAIL TECH KXH
		NPP END	M/s-RAIL TECH KXH
		M/s-PIL	158
5.	Roof	M/s-SANROK ENT.	PP END 13453 NPP END 13423
6.	Centre Buffer Coupler		

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(WOW)	89/88	11.08.19
2.	Insulation			Satisfactory		

SSE/QC/MCF/RBL अभियंता
 गुणवत्ता विभाग
 रेडिको, रायबरेली (मालगंज)



MODERN COACH FACTORY, RAEBARELI

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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	197013				197014			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-123				ECBT-120			
Bolster no.	MCF/RBL-892				MCF/RBL-880			
Axle No	19 L - 6007 RWF		19 L - 6302 RWF		19 L - 5828 RWF		19 L - 5385 RWF	
Wheel Dia	917.707	917.711	917.7	917.729	917.687	917.73	917.723	917.754
Wheel Disc No	DP 06-17 32193-17-344	DP 06-17 32232-17-344	DP 06-17 32194-17-344	DP 06-17 32163-17-344	DP 06-17 32178-17-344	DP 06-17 32172-17-344	DP 06-17 32207-17-344	DP 06-17 32195-17-344
R.B. Nos.	05-18 12506	05-18 28729	05-18 11529	05-18 40642	05-18 12505	05-18 40643	05-18 39515	05-18 28722
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.19-05 0574	TAYAL & CO. Sr.NO.19-05 0658	TAYAL & CO. Sr.NO.19-05 0602	TAYAL & CO. Sr.NO.19-05 0583

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12430,14598	12945,13938
2.	Primary outer Spring	CMFSK	03-19 7411-545(1439,1562,1431,1595)	03-19 7411-545(1581,1579,1493,1396)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(294,276,36,942)	05-19 7143-559(371,163,233,670)
4.	Primary Damper	KONI	03-19 (01297,04805,02468,00977)	03-19 (00997,01428,00732,00196)
5.	Secondary Damper	IAI	01-19 (237975,237914)	01-19 (238049,237956)
6.	Lateral Damper	GABRIEL	11-18 950	11-18 951
7.	Brake Cylinder	KBI	B(6927,6115,6052,7045)K29	B(7038,5968,9774,7003)K29
8.	Brake Caliper	KBI	B(4102,4308,4214,4205)-29	B(4223,4188,4190,4222)-29
9.	Brake Disc	FAV/KBI	FAV - 03-19(1449,1450,1451,1452)D133561-300	FAV - 03-19(1454,1463,1456,1456)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR	16-19 B 5740,16-19 B 5732	16-19 B 5934,16-19B 5917
17.	Check Valve	KNORR	07-19 19520	07-19 19612
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT, SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	270519-2,RVE,024619-2,020619-2	RVE,020619-2,040619-2,RVE
22.	Control Arm Lower	RVE	020619-2,RVE,010619-3,280519-2	280519-3,024619-2,250519-2,280519-2
23.	Phonic Wheel	KBI	K-06-19 640209	K-06-19 640209

Signature of SSE/Bogie/QC





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12. TRACEABILITY OF FURNISHING ITEMS:

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S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	
2.	Distribution valve	M/S- KBI, FARIDABAD	3216 29/29
3.	Pull box	M/S- KBI, FARIDABAD	2019 G 8229
4.	FIBA	M/S- KBI, FARIDABAD	
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	PP-8059 /29
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	NPP-8017 /29
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 MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/s- SHATABDI SAFTY GLASS VADODARA	
14.	Emergency Window	M/s- SHATABDI SAFTY GLASS VADODARA	
15.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16.	Roof Ceiling	M/S-MOBILITY SOLUTION LTD MOHALI	
17.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
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-MOBILITY 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 PVT.LTD. CDG	
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 RAIL FAB. KAPURTHALA	
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-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
34.	Lotah Filler Tap	M/S-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
35.	Bib cock	M/s- KPR INDUSTRIES, MOHALI	
36.	Lavatory Modules	M/S-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
37.	Lavatory Doors	M/S-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
38.	Fire Extinguisher	M/S- SAFELY PRO	
39.	Automatic smoke & heat Detection with alarm System	M/s-SANROK ENTERPRISES	PPE-1533 ,NPPE-1537
40.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND.	
41.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGAON	
42.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
43.	RFID	M/s-TECH SOLUTION GURGAON	Sr.-104169-104170

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
70 डि० आ०, रायबरेली (लागू)



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13. MODIFICATION (IF ANY) : Nil

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL -

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL
1-	Wheels provided by M/S-Sail Durgapur and assembled by MCF/RBL.	Trial	Feed back is require to quality MCF/RBL	---

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 ०३०३०० अभियंता १०६००००, रायबरेली (लालगंज)	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy. COM/MCF/RBL Joginder Singh उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli



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3T-1253

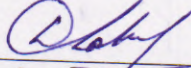
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FOR ELECTRICAL ITEMS

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	196235/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	20.26 Cub mtr/min		OK
3.2	Return Air	79.71 Cub mtr/min		OK
3.3	Exhaust Air	7.04 Cub mtr/min		OK
3.4	Conditioned Air	162.60 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.			---
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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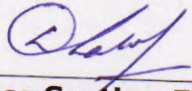
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ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

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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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): 3704 F Sr no of RMPU (PP side) : 3702 F Sr no of Microprocessor: AE 19.02.216	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 213-08-2018	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/06/071 Sr no.1 : 19050624 Sr no.2 : 19050996 Sr no.CPA : 2019/08/068-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	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 : DR AUTO	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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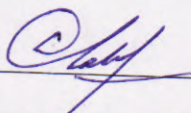
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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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 : 08/18	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 : M. B & COMPANY Sr no: 201907315	EDTS 163,Rev 'c' corg.-2&3	01
24.	Regulated battery charger Make : EEC Sr no: 11180036	RDSO/PE/SPEC/AC/0183 (REV -0)	01
25.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT5L 18395	As Per EDTS-366,REV-NIL & CC-71510	01
26.	Provision of capacitor Bank Make : KONTACT SL.no : KT-891	As per EDML-130 Rev-1,Corr-1	01
27.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1350	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
28.	Inter Vehicle (ZS)coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
29.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
30.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
31.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119141614	M/s : KNORR	01 set
32.	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	DY CEE (PLG)/MCF/RBL

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

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