



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/2019-20/1278

RLY	NWR	COACH NO	197785/C		DATE OF DISPATCH	18/12/2019
Type	LWACCN	Shell No.	93299	DISPATCH TO	Sr.DME/C&W/AII	FUR.NO. L3T-1358

1. Railway Board's Order No. : 2019/M@142/2, DATE-21-11-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. Special feature:

A- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

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	NPP/PP 1100/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-SFPL Part NPP END M/S-SFPL Complete MCF/RBL(V4U TECHIE)	93299
2	Lav. side wall	M/S-R.TECH KXH M/S-R.TECH KXH	LAV.1 LAV.2 LAV.3 LAV.4
3	Side wall	LH SIDE MCF/RBL(V4U) LKO RH SIDE MCF/RBL(V4U) LKO	202/01 202/02
4	End wall	PP END M/S-RAILTECH KXH NPP END M/S-RAILTECH KXH	
5	Roof	M/S-RAILTECH KXH	20
6	Centre Buffer Coupler	M/S-FRONTIER LTD.	PP/NPP 30P1/142P2

7. AIR BRAKE 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	09 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	EMPRISE	M/S-IMPRISE MARKETING	95/95	19/11/2019
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

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MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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RLY	N	W	R	Coach No.	1	9	7	7	8	5	/	C	-	DATE OF DISPATCH	1	8	1	2	2	0	1	9
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DISPATCH	Sr.DME/C&W/All	Type	L	W	A	C	C	N	Shell No.	9	3	2	9	9	FUR.NO	L3T-1358
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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	192225				192226			
Bogie Type	FIAT				FIAT			
Frame no.	RBL-1704				RBL-1706			
Bolster no.	RBL-2938				RBL-2814			
Axle No	19 L - 5139 RWF		19 L - 4982 RWF		19 L - 5084 RWF		19 L - 5252 RWF	
Wheel Dia	917.521	917.528	917.409	917.466	917.423	917.442	917.391	917.415
Wheel Disc No	TZ-07-19 67863-9RN6	TZ-07-19 67867-9RQ9	TZ-08-19 74226-9SL3	TZ-07-19 70617-9RR9	TZ-07-19 69068-9RL7	TZ-07-19 61886-9RP7	TZ-07-19 69067-9RL7	TZ-07-19 68832-9RH5
R.B. Nos.	09-18-22260	09-18-22187	09-18-22242	09-18-22594	09-18-21871	09-18-22148	09-18-22257	09-18-23290
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMFSK10-19-8835-091-39	CMAFJ01-19-9513-96	CMFSK10-19-8835-091-35	CMAFJ01-19-9513	CMFSK10-19-8835-091-83	CMAFJ01-19-9513-54	CMFSK10-19-8835-091-245	CMAFJ01-19-9513-55
Compressed Ht. at Tested Load	514	470	514	467	514	468	514.5	468
Alignment deviation (mm)	13	10	12	10	12	5	13	5

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	16903,16901	16902,16895
2.	Primary outer Spring	CMGBD	08-19-411-98 (832,792,823,613)	08-19-411-110 (785,729,554,552)
3.	Primary Inner Spring	CMAFJ	05-19 7143 (267,151,144,269)	05-19 7143 (158,266,146,148)
4.	Primary Damper	KONI	03-19 (06503,06670,06406,06438)	03-19 (07886,06593,06701,06481)
5.	Secondary Damper	KONI	04-19 (05605,04316)	04-19 (04157,05631)
6.	Lateral Damper	IAI	09-19 251274	09-19 251345
7.	Brake Cylinder	ESCORT	(48916,49042,49035,49334)	(47681,47480,49039,48914)
8.	Brake Caliper	ESCORT	(28272,28380,28376,28530)	(27283,27082,28377,28270)
9.	Brake Disc	KBI	24203752 0026-42/19,24203752 0027-42/19 24203752 0027-42/19,24375100 0052-41/19	24203753 0073-42/19,24203753 0072-42/19 24203752 0014-42/19,24203754 0032-42/19
10.	Ball Joint Control Arm	ARYAN/AR		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	ARYAN		
16.	SEC. Rubber pad	PRAG		
17.	Rubber spring Make	AR		
18.	Anti roli bar Make	EMSON		
19.	Roll Link make	SARITA/ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE/SF	280819-2,260819-2,260819-2,RVE	48,49,98,162
22.	Control Arm Lower	RVE/SF	RVE,210819-2,170819-3,170819-2	102,148,36,57
23.	Phonic Wheel	KBI	K 05-19	K 08-19

Signature of SSE/Bogie/QC

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RLY	NWR	COACH NO	197785/C			DATE OF DISPATCH	18/12/2019
Type	LWACCN	Shell No.	93299	DISPATCH TO	Sr.DME/C&W/AII	FUR.NO.	L3T-1358

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-ESCORT	
2	Distribution valve	M/S-ESCORT	2018110135
3	Pull box	M/S-FAIVELY	1811A135
4	FIBA	NA	
5	Foot Step	M/s-HITECH INCREAVENTURE PVT LTD RBL	
6	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8	PVC	M/S PREMIER POLYFILM, GZB	
9	UIC Vestibule (PPE)	M/S-SUNCREST INDS.KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREST INDS.KOLKATA	
11	Gangway bridge mounting (PPE)	M/S-HARE KRISHNA COACH PRODUCT KXH	
12	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA COACH PRODUCT KXH	
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-ALEX OVERSEAS PVT LTD KXH	
17	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JUC	
18	Supply Air Duct	M/S-HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-ALEX OVERSEAS PVT LTD KXH	
20	Partition panel (HONEY COMB)	M/S-RAIL TECH KXH	
21	Partition pillar	M/S- NAGINA & SIDHU INTERNATIONAL KXH	
22	AC Trough	M/S-MEENA FIBRE PUDUCHERY	
23	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
24	Compartment Door (PPE)	M/S-HANSPAL TRADERS KXH	
25	Compartment Door (NPPE)	M/S-HANSPAL TRADERS KXH	
26	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28	RMPU	M/S-SSK ENG KXH	
29	Bio Tank	M/S-JSL LIFESTYLE LTD GURGAON	
30	Auxiliary Water Tank	M/S-AMIT ENG,MOHALI	
31	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST. MOHALI	
32	Under Slung Water Tank (1x450 L)	M/S-AMIT ENG,BADDI	
33	Health Faucet	M/S-ARHAM HI-TECH DEG.SOLUTION MUMBAI	
34	Lotah Filler Tap	M/S-ARHAM HI-TECH DEG. SOLUTION MUMBAI	
35	Bib cock	M/S-KPR INDS MOHALI	
36	Lavatory Modules	M/S-ARHAM HI-TECH DEG. SOLUTION MUMBAI	
37	Lavatory Doors	M/S-ARHAM HI-TECH DEG. SOLUTION MUMBAI	
38	Fire Extinguisher	M/S-SAFE PRO FIRE SERVICE	3360,3370
39	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
40	Seat & Berth	M/S-TAWAKAL PVT MUMBAI	
41	Light Luggage Rack	M/S-RAIL FAB KXH	
42	Snack Table	M/S-DLJM NOIDE	
43	RFID	NA	

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Drawing Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1278							
RLY	NWR	COACH NO	197785/C			DATE OF DISPATCH	18/12/2019
Type	LWACCN	Shell No.	93299	DISPATCH TO	Sr.DME/C&W/AII	FUR.NO.	L3T-1358

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 30months 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 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.

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रे०डि०का०, रायबरेली (लालगंज)

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG AC COACHES

TYPE COACH	LWACCN	SHELL/COACH NO	197785/C
RAILWAY	NWR	ELECT.FIT DATE	17-12-2019
FUR.NO	3T-1358		
Sr no	Description of tests	Remarks	
1.0	REFERENCE SPECIFICATION : L 446		
1.1	AIR CONDITIONING TEST : ELPS/TP/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	19.87 Cub mtr/min	OK
3.2	Return Air	72.90 Cub mtr/min	OK
3.3	Exhaust Air	6.49 Cub mtr/min	OK
3.4	Conditioned Air	163.74 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	----	
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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG HOG 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/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : SSK Sr no of RMPU (NPP side): 1222/19 Sr no of RMPU (PP side) : 1223/19 Sr no of Microprocessor: AE 19.10.900	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-608	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/11/0063 Sr no.1 : 19100128 Sr no.2 : 19100077 Sr no.CPA : 2019/10/09-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 : ECOFIT	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: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : INTEG ELECT.	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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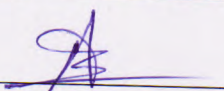
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

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 : RECORD	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 : 07/19	EDTS 129,Rev nil	01 set
19.	Battery box for LHB coaches. Make : ANKUR	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
20.	Battery fuse box +ve Make : SSK	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : SSK	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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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DEVITEC ELECTRICAL	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.	Regulated battery charger(RBC CUM EBC) Make : WAVES Sr no: W4K5K 19979	RDSO/PE/SPEC/AC/0183 (REV '1')	01
27.	Provision of 5KVA TFR Make : BHASIN SL.no : 09189986	As Per EDTS-366,REV-NIL & CC-71510	01
28.	Provision of capacitor Bank Make : RICHMOND ENTERPRISES SL.no : 341698	As per EDML-130 Rev-1,Corr-1	01
29.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-2264	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
30.	Inter Vehicle (ZS)coupler Make: S.INTERNATIONAL	As per RDSO PE SPEC-0177-2013 REV-0	01 set
31.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
32.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
33.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180370-59826-0107	M/s : ESCORT	01 set
34.	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
आधुनिक रेल डिब्बा कारखाना / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली,
Sr. Electrical Engineer / RCF / RBL