
	Modern Coach Factory Raebareilly आधुनिक रेल डिब्बा कारखाना, रायबरेली				DOC NO.: MCF/RBL/QMF 8002			
					REV NO: 01			
					DATE: 03-03-2020			
ROLLING STOCK CERTIFICATE Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/205								
RLY	CR	COACH NO	204297/C	DATE OF DISPATCH			25-07-2020	
Type	LWSCZAC	Shell No.	94070	DISPATCH TO	Sr.DME/PUNE		FUR.NO.	SCZAC-05
1. Railway Board's Order No. : 2020/M(C)/142/2, DATED-24.06.2020								
2. Tare Weight of Coach : 40.28 Tonnes								
3. Carrying Capacity : (a) Seating: 78 (b) Sleeping: NIL (c) Luggage: NIL								
4. Special feature:								
S NO	DESCRIPTION					MAKE/SUPPLIER		
A	FRP ceiling used in non ac area					M/S-AMIRCHAND ENGG WORK JUC		
B	Honey comb pantry partition					M/S-CMT MECHANISED SYSTEM PVT LT		
C	Automatic smoke & heat Detection with alarm System					M/S-SANROK ENTERPRISES		
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					4039		
4	CBC height/Buffer height from Rail level 1105 +0/-10					NPP /PP	1105/1104	
6. TRACEABILITY OF SHELL ITEMS:								
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO					
1	Under frame	Front	PP END	M/S-NE	10/19			
		Part	NPP END	M/S-NE	10/19			
		Complete		MCFRBL-V4U TECHIE	94070			
2	Lav. side wall	M/S-COMPETENT JUC	LAV.1		LAV.2			
		M/S-COMPETENT JUC	LAV.3		LAV.4			
3	Side wall	LH SIDE		MCF/RBL	06/01			
		RH SIDE		MCF/RBL	06/02			
4	End wall	PP END		M/S-OMAX REWARI				
		NPP END		M/S-OMAX REWARI				
5	Roof	MCF/CONT	06					
6	Centre Buffer Coupler	M/S-FRONTIER LTD	PP END	33-P1	NPP END	122-P1		
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 .	6 – 10 sec.	07 Sec				
		Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²				
		All Brake are applied	OK	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	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF		
		OF PAINT		(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION		
1	Paint	PU	GSI	M/S-G.S. INDUSTRIES	87/88	04.01.2020		
2	Insulation	Satisfactory						


 SSE/QC/MCF/RBL
 वरिष्ठ अनुष्ठान अभियंता
 गुणवत्ता विभाग
 रेल डिब्बा कारखाना, रायबरेली (मालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/205

REL	C	R	-	Coach No.	2	0	4	2	9	7	/	C	-	DATE OF DISPATCH	2	5	0	7	2	0	2	0
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DISPATCH	Sr.DME/PUNE	Type	L	W	S	C	Z	AC	Shell No.	9	4	0	7	0	-	FUR .NO	SCZAC-05
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192995				192996			
Bogie Type	FIAT				FIAT			
Frame no.	RBL-1835				RBL-1840			
Bolster no.	RBL-3351				AMIT-568			
Axle No	19 N - 8918 RWF		19 T - 6908 RWF		19 T - 6821 RWF		19 N - 8587 RWF	
Wheel Dia	917.467	917.401	917.43	917.371	917.491	917.389	917.457	917.351
Wheel Disc No	TZ-06-19 48644-9PE6	TZ-07-19 69908-9RM0	TZ-07-19 69907-ORM0	TZ-07-19 48638-9PE8	TZ-06-19 58854-9QL7	TZ-05-19 49613-9PJ8	TZ-06-19 60552-9QJ8	TZ-06-19 66523-9QL3
R.B. Nos.	08-19 27812	08-19 43442	07-19 42706	11-19 40253	11-19 40713	11-19 42579	11-19 40438	11-19 42798
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.	CMFSK12-19E18-150	CMFSK05-19-9513-007-05	CMFSK12-19-E18-150-11	CMFSK05-19-9513-007-581	CMFSK12-19-518-150-3	CMFSK05-19-8513-007-255	CMFSK12-195045-112-151	CMFSK05-19-9513-007-273
Compressed Ht. at Tested Load	510	466	510	467	510.5	463.5	512	468
Alignment deviation (mm)	11	7	9	7	9	9	7	9

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	292042,292013	291930,292160
2.	Primary outer Spring	CMAFJ	05-19 7411---(93,6905,94,405)	05-19 7411(400,406,407,445)
3.	Primary Inner Spring	CMSTL/RKSTL	10-19 02A-- (8538,6905,8149,6820)	05-19 02Y (2193,2096,1848,7658)
4.	Primary Damper	IAI	10-19 (277415,277348,277296,27435)	09-19 (274219,274049,275876,274226)
5.	Secondary Damper	KONI/IAI	04-19 (05690,05667)	11-19 (286782,280751)
6.	Lateral Damper	IAI	05-19 251029	05-19 251291
7.	Brake Cylinder	KBI	C(1001,0041,0044,1005)-K-29	C(0639,9413,9432,0592)-K-29
8.	Brake Caliper	KBI	C(7701,7892,7891,7699)-29	C(7397,7323,7324,7398)-29
9.	Brake Disc	FAV	12-19(07633,7632,1980,8105)D133561-300	12-19(8501,8000,8503,8502)D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	ARYAN		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	KUMAR	0807,0882,0868,0887	0941,0810,0842,0587
22.	Control Arm Lower	KUMAR	D0521,N0989,N0563,D0829	N0520,Q5508,N8996,N0516
23.	Phonic Wheel	KBI	K 09-19	K 09-19

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Modern Coach Factory Raebareilly
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DOC NO.: MCF/RBL/QMF 8002

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DATE: 03-03-2020

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/205

RLY	CR	COACH NO	204297/C	DATE OF DISPATCH	25-07-2020
Type	LWSCZAC	Shell No.	94070	DISPATCH TO	Sr.DME/PUNE
				FUR.NO.	SCZAC-05

FURNISHED BY M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module/Brake Panel	M/S-KBI	4314-48/19
2	Distribution valve	M/S-KBI	2019L9652
3	Pull box	M/S-KBI	
4	FIBA	NA	
5	Foot Step	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
6	Decoupling arrangement	M/S-KOHINOOR PVT LTD MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
9	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREAST 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-CMT MECHANISED SYSTEM PVT LTD VADODRA	
14	Emergency Window	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
15	Lavatory/hopper Window	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
16	Roof Ceiling	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
17	Door way /gang way ceiling	M/S-AMIRCHAND ENGG WORK JUC	
18	Supply Air Duct	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
19	Partition panel (HONEYCOMB)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
20	Partition pillar	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
21	Side Wall panel	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
22	AC Trough	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
23	RMPU	M/S-AMIT MOHALI	
24	Body Side Doors	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
25	Saloon sliding door (PPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
26	Saloon sliding door (NPPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
27	Pocket Wall (PPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
28	Pocket Wall (NPPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
29	Vestibule Door(PPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
30	Vestibule Door(NPPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
31	Pantry partition	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
32	Pantry sliding door	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
33	Shutter Big	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
34	Shutter Small	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
35	Bio Tank	M/S-UNIFAB-02,CEMCON CASTING PVT.LTD-01 no	
36	Pressurized flushing	M/S-IMI	
37	Auxiliary Water Tank	M/S-OASIS	
38	Under Slung Water Tank (2X685L)	M/S-OASIS	
39	Health Faucet	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
40	Lotah Filler Tap	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
41	Bib cock	M/s-JAQUAR PVT LTD ALWAR	
42	Lavatory Modules	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
43	Lavatory Doors	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
44	Fire Extinguisher	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
45	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENTERPRISES	
46	Seat & Berth	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
47	Centre Table	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
48	Luggage Rack	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
49	RFID	NA	

Shema
SSE/QC/MCF/RBL

वरिष्ठ अनु अभियंता

मुणवत्ता विभाग

रेडिंक, रायबरेली (लालगंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/205

RLY	CR	COACH NO	204297/C	DATE OF DISPATCH	25-07-2020
Type	LWSCZAC	Shell No.	94070	DISPATCH TO	Sr.DME/PUNE
				FUR.NO.	SCZAC-05

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:

- 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 qualityrcfrbl@gmail.com
- 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.

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

वरिष्ठ अनुसंधान विभाग
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

सहायक अभियंता/गुणवत्ता-1
Assistant Mechanical Engineer / Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

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

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 00
		DATE: 23.12.2019

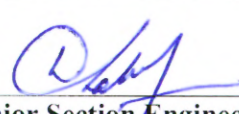
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR

ELECTRICAL TEST CERTIFICATE FOR LHB AC CHAIR CAR

ELECTRICAL TEST CERTIFICATE FOR LHB AC CHAIR CAR						
TYPE COACH		LWSCZAC		SHELL/COACH NO		204297/C
RAILWAY		CR	ELECT.FIT DATE	23-07-2020	MCF FUR.NO	SCZAC-05
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			27.11 Cub mtr/min		OK
3.2	Return Air			57.38 Cub mtr/min		OK
3.3	Exhaust Air			25.72 Cub mtr/min		OK
3.4	Conditioned Air			173.56 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 :21.3 ⁰ C NPP Side :20.7 ⁰ 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
 Quality control / Electrical
 Modern Coach Factory Raebareli





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

ELECTRICAL TEST CERTIFICATE FOR LHB AC CHAIR CAR COACH

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	WORKING OF READING LIGHTS	OK
11.0	WORKING OF COMPARTMENT LIGHT	OK
12.0	WORKING OF PANTRY EXHAUST FAN	OK
13.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
14.0	WORKING OF ANNUNCIATOR SYSTEM	OK
15.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
16.0	WORKING OF 60KVA TRANSFORMER	OK
17.0	WORKING OF 5 KVA TRANSFORMER	OK
18.0	WORKING OF REGULATED BATTERY CHARGER	OK
19.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
20.0	SAFETY :	
20.1	OHP :	OK
20.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
20.3	LP/HP GAUGE	OK
20.4	HYGROSTAT	OK
20.5	CONTROL CIRCUIT	OK
20.6	POWER CIRCUIT	OK
20.7	REFRIGERANT USED R 407C	OK

(Signature)
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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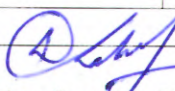
REV NO: 00

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ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC Package unit Make : AMIT ENGG. Sr no :- (NPP Side): 4382 L (PP Side): 4381 L CPU No: AE-19.08.775	RDSO/PE/SPEC/AC/0061 2005,REV-1,TYPE-1with RDSO/PE/MS/AC/077-2018 (rev-0) or Latest.	02
02.	Provision of Switch Board Cabinet (Power Panel) Make : NEC Sr no.: 2020034919	As per spec no. RDSO/PE/SPEC/AC/0184- 2015(REV.0)	01
03.	Provision of 4.5 Kw Under Slung type Constant Voltage Regulated battery charger cum Emergency Charger unit. Make : N/A Sr no: N/A	RDSO/PE/SPEC/AC/0183 (REV '1')	N/A
04.	Provision of 60KVA TFR 750/415 V,3-Phase,4- Wire,Vector configuration-STAR-STAR. Make: VIMAL Sr. No.: VTC-R-3089-LHB-3618	As per spec no. RDSO/PE/SPEC/AC/0080- 2007,Rev.-1 with RDSO letter no. EL/7/1/108/Transformer, dated 31/03/15 or Latest.	01
05.	Provision of 5 KVA Transformer. Make: WAVES Sr. no.: WLDT5L 19667	As per EDTS-366 ,Rev-Nil or Latest.	01
06.	Provision of Capacitor Bank. Make : KONTACT Sr no : KT-350	As Per EDML 130,Type- II,Rev.-1,Cor-3	01
07.	Provision of Pump equipment with PLC controller & pump box Make: KIND Sr no: KIND/ASY/0045 Pump 1: 20050159 Pump 2: 20050160 P/Cntrl: 20050005-KIND	As per spec no. EDTS 186 Rev.-A,AM-2,Corr-2 or latest.	01 Set
08.	Provision of Single Inlet Radial Blower, 415V/03Ph/185W/ 1045 Cub mtr/hr discharge from Pantry room. Make: INTEG	As per EDTS 331,Corr- 3,Type-II. Cat. no. 64D180BD,Rev nil.	01
09.	Provision of Double inlet centrifugal blower assembly complete with mounting bracket. Make: EYYANI	As per EDTS-331,Cor-1,2 & 3,Type-1 or Latest.	02
10.	Provision of Composite Pantry for LHB EOG AC chair car(Hot case, Deep freezer & water Boiler) Make: SPECTRUM Sr. no.: SSFT-CMT-2T-008	As per EDTS-331,Rev- B,Cor-2 or Latest	01 Set


Senior Section Engineer
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ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
11.	Provision of LED Light fitting for Passenger area. Make: DR AUTO	As per Drg. No. LW76100(Type"O") (18 Watt) Spec no. RDSO/PE/SPEC/TL/0091-2016,Rev-1	11
12.	Provision & mounting of Doorway/ Gangway light Make: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099(9 Watt)	07
13.	Provision of LED Light fitting with Night Light.(Pantry Room). Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016 Rev-1. Drg. No. LW76091 Type'M'.(9 Watt+ 1 Watt)	01
14.	Provision of Lavatory Light Fitting assembly. Make: K.LITE	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D As per drg no. LW 76001,Alt nil.	03
15.	Provision of Cable Jacket ,Size Nominal width 25mm ,Length -1000 mm	As per drg no. EDTS 0138,Rev-nil,Corr.-1 Item 9	01 Set
16.	Provision of PACIL Assly. Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1.Drg no. LW 76098 Type-I (3 Watt)	02
17.	Provision of WC Light Make: DHINGRA	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1.Drg. no. LW76097 Type-III (1Watt)	02 Set
18.	Provision of Cable Binders.	As per CC76129 or as approved of OEM by MCF/RCF.	01 Set
19.	Provision of Razor socket. Make: N/A	As per cat no EDML 047, Rev nil.	N/A
20.	Provision of Accidental Emergency Light. Make: INTEG ELECT.	As per RDSO/PE/SPEC/AC/0180-2016(Rev-0),Type-II.Drg. no. RDSO/PE/SK/TL/0181-2016(Rev-0) Sheet no. 1 & 2 or Latest.	01
21.	Provision of Call Bell/Annunciator. Make: V.S.INSTRUMENT.	As per EDTS-370, Rev-0, AM-1 or Latest.	01 Set
22.	Switch Socket Combined 5 Pin,6A,110VAC plate assembly Make: SSK	As per EDML-064, Rev-B, Table-7 or Latest.	18
23.	Provision of LED Reading light for Three seater. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091,Rev-1.Drg. no. LW76103,Type-Q2 (2Watt)	14
24.	Provision of LED Reading light for Two seater. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091,Rev-1.Drg. no. LW76103,Type-Q1 (2Watt)	18

[Signature]

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



MCF/RBL



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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	Plug & socket distribution board 20A,240 V AC With MCB for water Boiler and soup warmer. Make: SSK	As per Drg. No. LA 72200,Alt-A or Latest.	02
26.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: MV	As per 1948036 /UIV4125-6.	02
27.	Provision of High Capacity Inter-Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make: 1.(NPP): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	02
28.	Provision of Wheel Set Earthing Equipment. Make- NPP: PRIME ELECT. PP: PRIME ELECT.	As per spec no. EDTS 101 ,Rev.-C,AM-1,Corr-	2
29.	Provision of Terminal connector complete.	As per EDML-033, Rev.-D,MCF/RBL-Corr-2 or latest.	01
30.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01
31.	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 : 11/18	EDTS 129,Rev nil	01 Set
32.	Battery fuse box +ve Make : RICHMOND	As per LW 71001,Alt-G	01
33.	Battery fuse box -ve Make : AECO	As per LW 71002,Alt-G	01
34.	Provision of IVC dummy Socket assembly	As per Drg. No. LW71302,Alt-nil	02
35.	Provision of Feeder Junction Box. Make: MAA LAXMI INDUSTRIES	As per EDTS-328,Rev-C,AM-4,TYPE-II,COR-2.	04
36.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0119453166	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 Set
37.	Public addressing System Make: AHUJA	As per EDTS-173,TYPE-V,CORR-2,REV-A,AM-3 or Latest.	01 set

SSE/EL/QC आरंभ अनुमान अनियन्ता गुणवत्ता नियंत्रण आरंभ डिब्बा / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL आरंभ डिब्बा / लालगंज / रायबरेली A.W.M./Electrical/MCF/RBL

