	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002/FAC REV NO.00 DATE: 28.09.19

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/1036

RLY	C	R	-	Coach No.	1	9	7	2	4	9	/	C	DATE OF DISPATCH	0	9	-	1	1	-	1	9

DISPATCH TO	SSE/STOCK/CR/BB	Type	L	W	F	A	C	-	Shell No.	9	1	0	0	5	FUR.NO.	FAC-03

1. Railway Board's Order No. :2019M(C)/142/2, DATE : 03-06-2019
2. Tare Weight of Coach : Tonnes
3. Carrying Capacity : (a) Seating: 24 (b) Sleeping: 24 (c) Luggage: NIL
4. **Special feature: -** A-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
   B- 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	4039
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-ECBT	326			
			NPP END	M/s-ECBT	327			
		Complete	MCF/RBL		91005			
2.	Lav. side wall		M/S -RAIL FAB KAPURTHALA		LAV.1		LAV.2	
			M/S -RAIL FAB KAPURTHALA		LAV.3		LAV.4	
3.	Side wall	LH SIDE	MCF/RBL		03/01			
		RH SIDE	MCF/RBL		03/02			
4.	End wall	PP END	M/s-RSM MOHALI					
		NPP END	M/s-RSM MOHALI					
5.	Roof		MCF/CONT.		03			
6.	Centre Buffer Coupler		M/s-ESCORT		PP END	9007	NPP END	9396

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/cm². ➢ Max. pressure in BC ➢ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm². OK	09 sec. 3.0 kg/cm² OK
2.	Insensitivity	➢ Exhaust BP @ 0.3 kg/cm²/min.	No brake application	OK
3.	Sensitivity	➢ Exhaust BP @ 0.1 kg/cm²/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	90/88	13.05.19
2.	Insulation	Satisfactory				

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)

	MODERN COACH FACTORY, RAEBARELI आधुनिक रेल डिब्बा कारख़ाना, 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/2019-20/1036

RLY	C	R	-	Coach No.	1	9	7	2	4	9	/	C	-	DATE OF DISPATCH	0	9	1	1	2	0	1	9

DISPATCH	SSE/STOCK/CR/BB	Type	L	W	F	A	C	-	Shell No.	9	1	0	0	5	FUR .NO	FAC-03

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191130				191129			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-72				WIL-305			
Bolster no.	MCF/RBL-LS5-1204				MCF/RBL-LS5-924			
Axle No	19 S– 0845 RWF		19 S - 2399 RWF		19 S– 0485 RWF		19 S 0844 - RWF	
Wheel Dia	917.52	917.58	917.506	917.492	917.461	917.592	917.495	917.518
Wheel Disc No	TZ 06-19 60488-9QL3	TZ 07-19 65865-9RQ0	TZ 07-19 60490-9QL3	TZ 07-19 65374-9RS6	TZ 07-19 04041-9RQ8	TZ 06-19 55809-9QK0	TZ 06-19 64089-9QL3	TZ 07-19 65761-9RQ0
R.B. Nos.	08-19-23362	08-19-25958	08-19-24053	08-19-12260	06-19-12090	06-19-24279	06-19-25194	06-19-25194
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
Make & Nos.	TAYAL & CO. Sr.NO.18-11 1268	TAYAL & CO. Sr.NO.18-11 1400	TAYAL & CO. Sr.NO.18-11 1390	TAYAL & CO. Sr.NO.18-11 1424

11. TRACEABILITY 9OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	17770,17753	17750,17766
2.	Primary outer Spring	CMAFJ	04-19 7411 (7,185,179,53)	04-19 7411 (181,117,04,178)
3.	Primary Inner Spring	CMSTL	02-18 02A (5865,5901,5440,5397)	02-18 02A (5865,5901,5440,5397)
4.	Primary Damper	KNORR	07-19 (65543,65544,65667,65448)	03-19 (5701,5197,5557,5933)
5.	Secondary Damper	KNORR	07-19(19380,19374)	07-19(19520,19532)
6.	Lateral Damper	KONI	04-19 2456	04-19 2444
7.	Brake Cylinder	KBI	B(8165,7353,7350,8151)K-29	B(8826,7881,7873,8843)K-29
8.	Brake Caliper	KBI	B(5217,5411,5410,5216)K-29	B(5874,5974,5977,5877)K-29
9.	Brake Disc	FAV	06-19 (5779,5781,5780,5915)D 133561-300	06-19 (6158,6159,5914,6154)D 133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA/SF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN/GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT/KNORR	1904,1904	B 3669,B 4003
17.	Check Valve	ESCORT/KNORR	1905	05-19 18826
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT, SF/GMT,		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	260719-2,260719-2,260719-2,260719-2	310719-2,RVE,260219-3,260219-2
22.	Control Arm Lower	RVE	280619-3,280619-3,280619-3,280619-3	020819-3,RVE,RVE,RVE
23.	Phonic Wheel	KBI	K-08-19 640209	K-08-19 640209

Signature of SSE/Bogie/QC

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002/FAC REV NO:00 DATE: 28.09.19

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/1036

RLY	C	R	-	Coach No.	1	9	7	2	4	9	/	C	DATE OF DISPATCH	0	9	-	1	1	-	1	9

DISPATCH TO	SSE/STOCK/CR/BB	Type	L	W	F	A	C	-	Shell No.	9	1	0	0	5	FUR.NO.	FAC-03

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3694 36/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 J 8878
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	PP-9262/29 NPP-9181/29
5.	Foot Step	M/S- CENTURY POLYMER (CP) VADODARA	
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S- CENTURY POLYMER (CP) VADODARA	
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- CENTURY POLYMER (CP) VADODARA	
14.	Emergency Window	M/S- CENTURY POLYMER (CP) VADODARA	
15.	Lavatory/hopper Window	M/S- CENTURY POLYMER (CP) VADODARA	
16.	Roof Ceiling	M/S- CENTURY POLYMER (CP) VADODARA	
17.	Door way /gang way ceiling	M/S- CENTURY POLYMER (CP) VADODARA	
18.	Supply Air Duct	M/S- CENTURY POLYMER (CP) VADODARA	
19.	Automatic fire &smoke detection system	M/s-SANROK ENTER PRISES	
20.	Odour control system	M/S- CENTURY POLYMER (CP) VADODARA	
21.	Partition panel	M/S- CENTURY POLYMER (CP) VADODARA	
22.	Partition pillar	M/S- CENTURY POLYMER (CP) VADODARA	
23.	Side Wall panel	M/S- CENTURY POLYMER (CP) VADODARA	
24.	AC Trough	M/S-BHARAT FIBER LTD LUCKNOW	
25.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
26.	RMPU	M/S -AMIT ENG. BADDI	
27.	Compartment Door (PPE)	M/S- CENTURY POLYMER (CP) VADODARA	
28.	Compartment Door (NPPE)	M/S- CENTURY POLYMER (CP) VADODARA	
29.	Vestibule Door(PPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LTD.LDH	
30.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
31.	Bio Tank with pressurized flushing	M/S - RAIL FAB. KAPURTHALA & IMI	
32.	Auxiliary Water Tank	M/s-AMIT ENG. MOHALI	
33.	Under Slung Water Tank (2X685L)	M/S -AMIT ENGG, MOHALI	
34.	Health Faucet	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
35.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
36.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
37.	Lavatory Modules	M/S- CENTURY POLYMER (CP) VADODARA	
38.	Shower room (lav-1)	M/S- CENTURY POLYMER (CP) VADODARA	
39.	Lavatory Doors	M/S- CENTURY POLYMER (CP) VADODARA	
40.	Auto janitor	M/S- CENTURY POLYMER (CP) VADODARA	
41.	Fire Extinguisher	M/S-DEVIKA FIRE SAFETY NDLS	PPE- 1081 ,NPPE-1343
42.	Seat & Berth	M/S- CENTURY POLYMER (CP) VADODARA	
43.	Light Luggage Rack	M/S- CENTURY POLYMER (CP) VADODARA	
44.	Snack table	M/S- CENTURY POLYMER (CP) VADODARA	
45.	RFID	M/s-TECH SOLUTION GURGAON	103701,103702

वरि० अनु० अभियंता
गुणवत्ता विभाग
मे०डि०का०, रायबरेली (लालगंज)

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002/FAC REV NO:00 DATE: 28.09.19

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/1036

REV	C	R	-	Coach No.	1	9	7	2	4	9	/	C	DATE OF DISPATCH	0	9	-	1	1	-	1	9

DISPATCH TO	SSE/STOCK/CR/BB	Type	L	W	F	A	C	-	Shell No.	9	1	0	0	5	FUR.NO.	FAC-03

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 qualityrcfrbl@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.

वरि. SSE/QC/MCF/RBL गुणवत्ता विभाग रेoडिoका०, रायबरेली (लालगंज)	SME/AME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.CQM/MCF/RBL जोगिन्दर सिंह Jogindei Singh उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

FAC-03

Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
	REV NO: 00
	DATE: 28.08.2019

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

ELECTRICAL TEST CERTIFICATE FOR LHB FIRST AC COACH

TYPE COACH	**LWZFAC**	**SHELL/COACH NO**	**197249/C**
RAILWAY	**CR**	**DATE OF DESPATCH**	

Sr no	Description of tests		Remarks
1.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE	OK
1.1	Fresh Air	**19.88** Cub mtr/min	OK
1.2	Return Air	**67.29** Cub mtr/min	OK
1.3	Exhaust Air	**7.04** Cub mtr/min	OK
1.4	Conditioned Air	**128.77** Cub mtr/min	OK
2.0	**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 : **21.6 ^{0}C** NPP Side : **20.6^{0}C**		OK
3.0	**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

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

ELECTRICAL TEST CERTIFICATE FOR LHB FIRST AC COACH		
Sr no	**Description of test**	**Remarks**
4.0	HUMIDITY CONTROL	OK
5.0	PUMP EQUIPMENTS	OK
6.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
7.0	WORKING OF COMPOSITE PANTRY	OK
8.0	WORKING OF BERTH READING LIGHTS	OK
9.0	WORKING OF COMPARTMENT LIGHT	OK
10.0	WORKING OF BRACKET FAN	
11.0	WORKING OF PUBLIC ADDRESSING SYSTEM (**PAS**)	OK
12.0	WORKING OF ANNUNCIATOR SYSTEM	
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (**WSP**)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	SAFETIES :	
18.1	OHP :	OK
18.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
18.3	LP/HP GAUGE	OK
19.0	HYGROSTAT	OK
20.0	CONTROL CIRCUIT	OK
21.0	POWER CIRCUIT	OK
22.0	REFRIGERANT USED **R 407C**	OK

Senior Section Engineer
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Modern Coach Factory Raebareli

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

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 1 (NPP side) : **4146 J** Sr no of RMPU 2(PP side): **4144 J** Sr no of Microprocessor. : **AE 19.05.421**	As per rdso/pe/spes/ac/0061/rev-1/2005	**01 Set**
02.	Switch board cabinet Make : **AMIT ENGG.** Sr no : **AE/SB-918**	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0)	**01 no.**
03.	Pump equipment with PLC controller & pump box Make: **DR AUTO** PA Sr.no: **2019/06/158** Sr no.1: **19060539** Sr no.2 : **19060614** Sr.no.CPA: **2019/09/069-DR AUTO**	As per spec EDTS 186,Rev-a, Am- 2	**01 Set**
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : **ECOFIT**	EDTS331, TYPE-1 CORR.-1&2	**02 no.**
05.	Provision of Passenger area Light(Cabin/Corridor) Make: **RT VISION**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	**12 no.**
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	--
07.	Provision of Cabin/Corridor Light with Night light. Make: **RT VISION/DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M -	**12no.**
08.	Mounting of Cabin/Corridor Light with Night light	As per drg no. LW 76091.	--
09.	Provision & mounting of Doorway/ Gangway light. Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099 -	**08 no.**
10.	Provision & Mounting of PACIL Assly. Make: **KAVERI**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	**02 no.**

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Provision & Mounting of WC light. Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097. -	**02 no.**
12.	Provision & Mounting of Lavatory Light. Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092. -	**04 no.**
13.	Provision of Emergency Lighting system Make: **VGS**	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	**04 no.**
14.	PA system for LHB coaches Make: **AHUJA**	EDTS 173,Rev- a Am-1,2&3	**01 Set**
15.	Provision of terminal strip complete Make: NIL	As per EDML-033 Rev – C,Drg no. LW76054	**01 Set**
16.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	--
17.	Plug & socket distribution board 20A,240 V AC Make: **SSK**	As per Drg. No. LA 72200,Alt-A or Latest.	**01 no.**
18.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 2 no. ON_ OFF switches. Make: **SSK**	As per spec EDML-064,REV-B,Am-1 Item 11.Drg. no. LW74202 alt'c'	**04 no.**
19.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. 5-pin socket 6A,250 V AC 1 no. 1.0 Amp glass fuse. Make: **SSK**	As per spec EDML-064,REV-B,Am-1 alt 'c' Item 16,Drg. No. LW74202	**12 no.**
20.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. push bell & 2 no. ON_ OFF switches and 1 no. 5-pin socket 6A,250V AC with 1.0 Amp glass fuse. Make: **SSK**	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-9,Drg. No. LW74202	**04 no.**

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

Sr no	Description	Drg/Spec no.	Quantity per Coach
21.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plat & 2 no. ON_ OFF switches 6A,250 V AC at corridor area. Make: **SSK**	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-1,Drg. No. LW74202	**04 no.**
22.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 no. ON-OFF switches and 1 no. 5-pin socket 6A,250 V AC 1 no. 1.0 Amp glass fuse at cabin/Attendant area. Make: **SSK**	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-5,Drg. No. LW74202	**05 no.**
23.	Bracket Fan 225 MM Sweep wall bracket type,110 V AC and crash worthy features as per RCF AM-1(Type-IV) Make: **PARAS**	IS:6680-92 with RDSO Annexure-H(Dec-2005) or latest	**01 no.**
24.	Provision & Mounting of reading light for upper berth. Make : **RT VISION**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76094 -	**12 no.**
25.	Provision & Mounting of reading light for transverse berth (RHS) Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no LW 76095 -	**05 no.**
26.	Provision & Mounting of reading light for berth transverse (LHS) Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no LW 76096 -	**07 no.**
27.	Provision of Cable Jacket ,Size 06Nominal width 25mm ,Length -1000mm	As per spec no. EDTS 0138, Item 09	---
28.	Annunciator System complete Make: **V.S INSTRUMENT**	As per EDTS 117,Rev-A	**01 set**
29.	Provision of Inter Vehicle coupler Make: **PRIME ELECT.**	As per RDSO PE SPEC-0177-2013 REV-0	**01 set**
30.	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 : **08/19**	EDTS 129,Rev nil	**01 set**

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

Sr no	Description	Drg/Spec no.	Quantity per Coach
31.	Battery box for LHB coaches. Make: **HITECH**	As per drgno 1 10113 0 76 700 005,Alt C	**01 no.**
32.	Battery fuse box +ve Make : **RADIANT**	LW 71001,Alt-F	**01 no.**
33.	Battery fuse box –ve Make : **RADIANT**	LW 71002,Alt-F	**01 no.**
34.	Regulated battery charger(RBC CUM EBC) Make : **WAVES** Sr no: **W4K5H 19462**	RDSO/PE/SPEC/AC/0183 (REV '1')	**01 no.**
35.	Emergency battery charger Make : **NIL** Sr no: **NIL**	EDTS 163,Rev `c' corg.-2&3	**01 no.**
36.	Provision of 5 KVA TFR Make: **BHASIN** SL.no. **09180018**	As Per EDTS-366,REV-NIL & CC-71510	**01 no.**
37.	Provision of capacitor Bank Make: **KONTACT** SL.no.**KT-744**	As per EDML-130 Rev-1,Corr-1	**01 no.**
38.	60KVA transformer Make :**VIMAL** Sr no : **VTC-R-3089-LHB-2119**	As per rdso/pe/spec/ac/0080/rev -0 (2007)/Am-1&2/Corr. 1,2&3	**01 no.**
39.	Feeder junction boxes. Make : **SYSTEMS**	EDTS-328 REV-C	**01 set**
40.	Wheel set earthling equipment. Make : **DARSHAN ENTERPRISES**	EDTS101,REV-C,AM-1	**01 set**
41.	Wheel Slide Protection System (WSP) Make: **KNORR** Sr no : **0119040965**	M/s : **KNORR**	**01 set**
42.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : **N/F**	As per spec no EDTS 139, Rev- E ,Sec II.	**01 set**

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	**AWM(ELECT.)/MCF/RBL** for **SEE(P)/MCF/RBL** स० कार्य प्रबन्धक / विद्युत आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL