



# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF  
8002/LBAC  
REV NO: 00  
DATE: 21.02.2019

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1068

RLY	W	R	-	Coach No.	1	9	7	2	1	8	/	C	DATE OF DISPATCH	1	5	-	1	1	-	1	9
DISPATCH TO	Sr.DME/BCT			Type	L	W	C	B	A	C	Shell No.	9	5	0	3	0	FUR.NO.	LBAC-56			

1. Railway Board's Order No. : 2019/M(C)/142/2, Dated: 25-10-2019
2. Tare Weight of Coach : 39 Tonnes
3. Carrying Capacity : (a) Seating: 15 (b) Sleeping: 15 (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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1097 (NPPE) 2) 1102 (PPE)

### 6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-JBM	32
		NPP END M/S- PENNAR IND.HYD	---
2.	Lav. side wall	Complete MCF/RBL	95030
		M/s-RAIL TECH KXH	LAV.1 --- LAV.2 ---
3.	Side wall	M/s-RAIL TECH KXH	LAV.3 --- LAV.4 ---
		LH SIDE MCF/RBL	18/01
4.	End wall	RH SIDE MCF/RBL	18/02
		PP END M/s-RAIL TECH KXH	---
5.	Roof	NPP END M/s-RAIL TECH KXH	---
		M/s-MCF	18
6.	Centre Buffer Coupler	M/s- FRONTIER	PP END 01P1 NPP END 43P2

### 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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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- BERGER	(SUPPLY & APPLY)	89/89	09.09.19
2.	Insulation	Satisfactory				

वसिष्ठ/मफ/रबल

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)







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/2019-20/1068

RLY	W	R	-	Coach No.	1	9	7	2	1	8	/	C	-	DATE OF DISPATCH	1	5	1	1	2	0	1	9
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	Sr.DME/BCT	Type	L	W	C	B	A	C	Shell No.	9	5	0	3	0	FUR .NO	LBAC-56
----------	------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---------	---------

**9. DETAIL OF BOGIES:**

ITEMS	NPP Side				PP Side			
Bogie No	197008				197007			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-216				MCF/RBL-LS5-723			
Bolster no.	MCF/RBL-LS5-1103				MCF/RBL-LS5-797			
Axle No	19 P-1966 RWF		19 N - 8831 RWF		19 R-2797 RWF		19 P 2118 - RWF	
Wheel Dia	917.467	917.69	917.376	917.572	917.429	917.491	917.487	917.684
Wheel Disc No	TZ 04-19 37173-9OE5	TZ 05-19 45948-9PG4	TZ 05-19 45944-9PG4	TZ 05-19 44344-9PG5	TZ 07-18 25429-9ML7	TZ 07-18 42999-9PD6	TZ 07-18 41960-9PH9	TZ 07-18 41958-9MI9
R.B. Nos.	07-19-41527	07-18-41117	07-18-41558	07-18-42225	07-18-41337	07-18-41310	07-18-41569	07-18-41134
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 1065	TAYAL & CO. Sr.NO. 18-05 0676	TAYAL & CO. Sr.NO. 18-09 1046	TAYAL & CO. Sr.NO. 18-09 0675

**11. TRACEABILITY OF BOGIE ITEMS :-**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	21007,21002	21017,21019
2.	Primary outer Spring	CMFSK	03-19 7411-545 (1501,1369,1266,1252)	03-19 7411-545 (1288,1263,1277,1390)
3.	Primary Inner Spring	CMSTL	02-19 02A(8951,7138,8517,7280)	02-19 02A(1750,2184,1849,1795)
4.	Primary Damper	KONI	03-19 (00875,00895,01013,00881)	02-19 (00989,01657,01469,01141)
5.	Secondary Damper	IAI	01-19 (238005,238022)	01-19 (238199,238224)
6.	Lateral Damper	GABRIEL	11-18 1019	11-18 1018
7.	Brake Cylinder	KBI	B(5967,5116,5093,5971)K-29	B(5966,5090,5120,5904)K-29
8.	Brake Caliper	KBI	B(3399,34593,460,3395) -29	B(3396,346,13474,3968) -29
9.	Brake Disc	KBI	24195446 0071-30/19,24190407 0047-23/19 24195446 0069-30/19,24195448 0017-30/19	24193652 0030-28/19,24193652 0029-28/19 24195448 0029-28/19,24195448 0012-30/19
10.	Ball Joint Control Arm	BASANT		
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 3697,16-19 B 3817	16-19 B 5946,16-19 B 5918
17.	Check Valve	KNORR	05-19 18789	05-19 19617
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	100619-2,080619-2,250619-2,RVE	100619-2,080619-2,010619-2,RVE
22.	Control Arm Lower	RVE	RVE,240619-3,250619-3,010619-3	310519-3,280619-3,RVE,020619-3
23.	Phonic Wheel	FAV	FT/KEP-1	FT/KEP-1

Signature of SSE/Bogie/QC







# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF  
8002/LBAC  
REV NO: 00  
DATE: 21.02.2019

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1068

Certificate No.: MCF/RBL/QC/RSC/2019-20/1068																						
RLY	W	R	-	Coach No.	1	9	7	2	1	8	/	C	DATE OF DISPATCH	1	5	-	1	1	-	1	9	
DISPATCH TO		Sr.DME/BCT				Type		L	W	C	B	A	C	Shell No.	9	5	0	3	0	FUR.NO.	LBAC-56	
12. TRACEABILITY OF FURNISHING ITEMS:																						
S NO		ITEM																				

### 12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S -FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	F 19141 B
2.	Distribution valve	M/S -FAIVELY TRANS. TECH.INDIA LTD BADDI(HP)	19015654B
3.	Pull box	M/s- KBI, FARIDABAD	
4.	Fiba Device	M/s- KBI, FARIDABAD	
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	PP-8097/29
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	NPP-8108/29
7.	Floor board	M/s- SHRI RAM PANELS, PUNJAB	
8.	PVC	M/S- HINDUSTAN FIBRE GLASS WORKS,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- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
14.	Emergency Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
15.	Lavatory/hopper Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
16.	Automatic Fire Detection System	M/S- SANROK ,FARIDABAD	
17.	Roof Ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
18.	Door way /gang way ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
19.	Supply Air Duct	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
20.	Partition panel	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
21.	Partition pillar	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
22.	Side Wall panel	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
23.	AC Trough	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
24.	Body Side Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
25.	Compartment Door	M/S- JBM INDUSTRIES, FARIDABAD	
26.	Vestibule Door(PPE)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
27.	Vestibule Door(NPPE)	M/S- HANSFAL TRADERS, KXH	
28.	Pantry sliding door	M/S- HANSFAL TRADERS, KXH	
29.	Saloon sliding door(PPE)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
30.	Saloon sliding door(NPPE)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
31.	FRP panels for pantry room	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
32.	Shutter (small)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
33.	RMPU	M/S-AMIT ENGG.PKL	
34.	Bio Tanks	M/S- JSL LIFE STYLE LTD	
35.	Auxiliary Water Tanks	M/s- AMIT ENG. MOHALI	
36.	Under Slung Water Tank ( 2X685L)	M/s- AMIT ENG. MOHALI	
37.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDHI	
38.	Flexible Faucet	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
39.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
40.	Bib cock	M/s- JAQUAR PVT. LTD. ALWAR	
41.	Lavatory Modules	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
42.	Lavatory Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
43.	Fire Extinguisher	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
44.	Seat & Berth	M/s-CAPITAL FIRE	Sr.no-09786
45.	WATER PURIFIRE	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
46.	RFID	M/S-TECH-SOLUTION PVT LTD.	Sr.105710,105709

CCF/CC/MCF/DR

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)







# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF  
8002/LBAC  
REV NO: 00

DATE: 21.02.2019

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1068

Certificate No.: MCF/RBL/QC/RSC/2019-20/1068																							
RLY	W	R	-	Coach No.		1	9	7	2	1	8	/	C	DATE OF DISPATCH		1	5	-	1	1	-	1	9
DISPATCH TO		Sr.DME/BCT				Type		L	W	C	B	A	C	Shell No.		9	5	0	3	0	FUR.NO.		LBAC-56
13. MODIFICATION (IF ANY)								:	Nil														

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:

- 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 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

मे 0डि0का0, रायबरेली (लालगंज)

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

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



MCF/RBL





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 25.01.2019

PAGE 1 OF 5

### FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG HOG AC HOT BUFFET CAR  
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG HOG AC HOT BUFFET CAR

TYPE COACH	LWCBAC	SHELL/COACH NO	197218/C
RAILWAY	WR	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	66.98 Cub mtr/min	OK
3.3	Exhaust Air	7.26 Cub mtr/min	OK
3.4	Conditioned Air	170.20 Cub mtr/min	OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition PP Side : 20.8 °C NPP Side : 22.8 °C	OK	
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  <b>Not done</b>	---	

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:25.01.2019

PAGE 2 OF 5

**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

ELECTRICAL TEST CERTIFICATE FOR LHB EOG/HOG AC HOT BUFFET CAR

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 PANTRY EQUIPMENTS	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 TRANSFORMERS	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETY :	
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**

**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**





# Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:25.01.2019

PAGE 3 OF 5

## ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : <b>AMIT ENGG.</b> Sr no of RMPU (NPP side): <b>3737 G</b> Sr no of RMPU (PP side) : <b>4131 J</b> Sr no of Microprocessor: <b>AE 19.06.506</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>ABROL</b> Sr no : <b>011-08/2019</b>	As per Spec no.EDTS134,REV.D,AM-5	<b>01</b>
03.	Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b> Sr no PA : <b>2019/09/0094</b> Sr no.1 : <b>19080486</b> Sr no.2 : <b>19080421</b> Sr no.CPA : <b>2019/09/093-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>ECOFIT</b>	EDTS331, TYPE-1 CORR.-1&2	<b>01</b>
05.	Provision & mounting of Passenger area light(Cabin) Make : <b>RT VISION</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L & Drg no LW76090	<b>09</b>
06.	Provision & mounting of Corridor Light with Night light Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M & Drg no LW76091	<b>09</b>
07.	Provision & mounting of Doorway/ Gangway light Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	<b>06</b>
08.	Provision & Mounting of PACIL Assly. Make : <b>KAVERI</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	<b>02</b>
09.	Provision & Mounting of Toilet indication light, Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097.	<b>01</b>
10.	Provision & Mounting of Lavatory Light Make : <b>K.LITE</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	<b>02</b>
11.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
12.	Provision of terminal strip with flanges Make : <b>WAGO</b>	As per EDML-034 Rev -A	<b>01SET</b>

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:25.01.2019

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

PAGE 4 OF 5

Sr no	Description	Drg/Spec no.	Quantity per Coach
13.	Provision of Four Switch 6A/250V AC Complete With Steel Plate & Cover Frame. Make: <b>SSK</b>	As per Spec no.EDML043,CORR-1	<b>04 nos</b>
14.	Provision of Twin Switch 6A/250V,Complete With Steel Plate & Cover Frame. Make: <b>SSK</b>	As per Spec no.EDML044,REVNIL,CORR-1	<b>03 nos</b>
15.	Provision of Single Switch 16A,250V & 6/16A,250V.AC 6-Pin Shuttered Socket Compl. With Steel Plate & Cover Frame, Make: <b>SSK</b>	As per Spec no.EDML045,CORR-1	<b>06 nos</b>
16.	Provision of PA System for LHB EOG Rajdhani Rake . Make:- <b>PANJAB RADIO(AHUJA)</b> Call box Make: <b>BOSCH</b>	As per Spec no.EDTS173,REV.A,AM-3	<b>01 set</b>
17.	Jumper Cable with Connector for PA System. Make:- <b>MV</b>	As per drg no.LW75206,Alt' c	<b>01 set</b>
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 : <b>AMARA RAJA</b> Lug date : <b>8/19</b>	EDTS 129,Rev nil	<b>01 set</b>
19.	Battery box for LHB coaches. Make : <b>HITECH</b>	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	<b>01</b>
20.	Battery fuse box +ve Make : <b>AECO</b>	As per LW 71001,Alt-F	<b>01</b>
21.	Battery fuse box -ve Make : <b>ISGPL</b>	As per LW 71002,Alt-F	<b>01</b>
22.	Emergency battery charger Make : <b>BHASIN</b> Sr no: <b>08198944</b> Make : <b>BHASIN</b> Sr no: <b>08198981</b>	EDTS 163,Rev 'c' corg.-2&3	<b>02</b>
23.	Provision of capacitor Bank Make : <b>KONTACT</b> SL.no: <b>KT-875</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
24.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-R-3089-LHB-2139</b> Make: <b>VIMAL</b> Sr no : <b>VTC-R-3089-LHB-2128</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>02</b>

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli



MCF/RBL





# Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 25.01.2019

## ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

PAGE 5 OF 5

Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105, Rev 'e' Am-2	<b>01 set</b>
26.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>01 set</b>
27.	Wheel set earthing equipment. Make : <b>PRIME ELECT.</b>	EDTS101, REV-C, AM-1	<b>02 sets</b>
28.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>14/19/564</b>	As per M/s Sab Webco, M/s Knorr Bremse, M/s Escorts.	<b>01 Set</b>
29.	Provision of fitment of modular Integrated Pantry unit.	As per spec no EDTS 118, REV-E, AM-2	<b>01 Set</b>
30.	Hot Plate:		
(a)	Make:- <b>VISHAL</b>		<b>03</b>
(b)	Geysers Make: <b>VISHAL</b>		<b>01</b>
(c)	Hot Water Boilers, Make: <b>VISHAL</b>		<b>02</b>
(d)	Bottle Coolers, Make: <b>VISHAL</b>		<b>01 set</b>
(e)	Deep Freezers Make: <b>VISHAL</b>		<b>01 set</b>
(f)	Hot Case, Make: <b>VISHAL</b>		<b>01 set</b>
(g)	Chimneys, Make: <b>VISHAL</b>		<b>03</b>
h)	Oven Toaster Griller Make: <b>VISHAL</b>		<b>01</b>
(i)	Refrigerator Make: <b>SUMSUNG</b>		<b>01</b>
(j)	Insect Killer Make: <b>NIL</b>		<b>02</b>

<b>SSE/EL/QC</b>	<b>AWM(ELECT.)/MCF/RBL</b>
<b>वरिष्ठ अनुभाग अभियन्ता</b>	<b>SEE(P)/MCF/RBL</b>

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

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