	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, 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/2020-21/482

RLY	CR	COACH NO	204799/C			DATE OF DISPATCH	15-Sep-20
Type	LWACCN	Shell No.	20C072	DISPATCH TO	SSE/C&W/WB/BB	FUR.NO.	L3T-1493

1. Railway Board's Order No. : 2020/M(C)142/2, DATE-24.06.2020
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

B-Venturi arrangement in lavatory -HF VADODARA

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	1105/1099

6. TRACEABILITY OF SHELL ITEMS:

S NO		ITEM		MAKE/SUPPLIER	SERIAL NO			
1	Under frame	Front	PP END	M/S-NECHD	.			
		Part	NPP END	M/S-NECHD	.			
		Complete		MCFRBL-V4U TECHIE	20C072			
2	Lav. side wall			M/S-ATHANCY ALD	LAV.1		LAV.2	
				M/S-ATHANCY ALD	LAV.3		LAV.4	
3	Side wall	LH SIDE		MCFRBL-V4U LKO	424			
		RH SIDE		MCFRBL-V4U LKO	424			
4	End wall	PP END		M/S-DTL PUNE				
		NPP END	PP END	M/S-DTL PUNE				
5	Roof			M/S-ECBT	138			
6	Centre Buffer Coupler			M/S-FRONTIER	NPP/PP		68/P1,44/P2	

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/cm².	6 – 10 sec.	08 sec.
		Max. pressure in BC	3.0 ±0.15 kg/cm².	3.0 kg/cm²
		All Brake are applied	OK	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	GSI	M/S-GSI (S&A)	88/87	28-Jul-20
2	Insulation	Satisfactory				

25/11/2020

SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे0डि0का0, 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/**2020-21/482**

RLY	C	R	-	Coach No.	2	0	4	7	9	9	/	C	-	DATE OF DISPATCH	1	5	0	9	2	0	2	0

DISPATCH	SSE/C&W/WB/BB	Type	L	W	A	C	C	N	Shell No.	2	0	C	0	7	2	FUR .NO	L3T-1493

9. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	200936				200935			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-2334				VS-2089			
Bolster no.	AMIT-66				AMIT-49			
Axle No	20 V– 9076 RWF		20 V– 9503 RWF		20 V– 9496 RWF		20 Z – 0503 RWF	
Wheel Dia	917.415	917.546	917.391	917.585	917.403	917.582	917.427	917.572
Wheel Disc No	TZ -07-19 62220-9RL4	TZ -07-19 64821-9QH1	TZ -12-19 76815-9WG6	TZ -07-19 62222-9RL4	TZ -11-19 79200-9VG3	TZ -04-19 40722-9DJ6	TZ -11-19 80899-9VE2	TZ -11-19 82317-9VF8
R.B. Nos.	12-19 42962	11-19 32327	11-19 43607	11-19 43769	12-19 36520	11-19 45398	12-19 36504	11-19 43558
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.	CMFSK02-20 F15-176-271	CMAFJ04-19-9513-15	CMFSK01-20 F15-171-313	CMAFJ04-19-9513-43	CMFSK02-20 F16-171-257	CMAFJ04-19-9513-22	CMFSK02-20 F16-171-245	CMAFJ04-19-9513-50
Compressed Ht. at Tested Load	511	465	511	466	515	468	514.5	465
Alignment deviation (mm)	9	15	9	20	7	10	8	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	293523,294050	293900,294263
2.	Primary outer Spring	CMRSK	08-18 F03-531-03Y-(2605,2405,2188,2373)	08-18 F03-529-03Y-(1408,1961,1975,2618)
3.	Primary Inner Spring	CMAFJ	07-20 7143-(688,676,711,696)	01-20 7143--(708,698,700,683)
4.	Primary Damper	GABRIEL	01-20 (15105,15124,15136,15129)	01-20-(15002,15137,15145,15125)
5.	Secondary Damper	IAI	01-20 (295212,295275)	01-20 (295217,295159)
6.	Lateral Damper	KONI	03-19 00321	03-19 01063
7.	Brake Cylinder	KBI	C (7789,6949,6430,7810)K29	C (8283,6980,8311,)-K-29, D6998K29
8.	Brake Caliper	KBI	C-(3760,3862,3863,3761)-29	C-(4255,4346,4342,4254)-29
9.	Brake Disc	KBI	24229048 0025-27/20,24229048 0027-27/20 24229049 0016-27/20,24229049 0017-27/20	24229053 0039-28/20,24229053 0035-28/20 24229053 0047-28/20,24229053 0038-28/20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT		
15	Ball joint traction centre	GMT		
16	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SF/GMT JUR/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	KUMAR	1298,2217,2514,1594	N1527,N1528,D1652,D1181
22.	Control Arm Lower	KUMAR	N1507,02226,D2221,N2289	D3400,B2301,D2504,D2218
23.	Phonic Wheel	KBI	K 07-20	K 07-20

Signature of SSE/Bogie/QC

Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारख़ाना, 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/2020-21/482

RLY	CR	COACH NO	204799/C			DATE OF DISPATCH	15-Sep-20
Type	LWACCN	Shell No.	20C072	DISPATCH TO	SSE/C&W/WB/BB	FUR.NO.	L3T-1493

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-KBI	4705 02/20
2	Distribution valve	M/S-KBI	2019M10082
3	Pull box	M/S-KBI	
4	FIBA	NIL	
5	Foot Step	M/S-FABRICON KOLKATA	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S -GREENPLY LTD GUJRAT	
8	PVC	M/S -PREMIER POLY FILM GZB	
9	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREAST KOLKATA	
11	Gangway bridge mounting (PPE)	M/s-MMW KXH	
12	Gangway bridge mounting (NPPE)	M/s-MMW KXH	
13	Body Side Window	M/s- SHATABDI SAFTEY GLASS VADODARA	
14	Emergency Window	M/s- SHATABDI SAFTEY GLASS VADODARA	
15	Lavatory/hopper Window	M/s- BIRCON ENGG.GZB	
16	Roof Ceiling	M/S-MSL CDG	
17	Door way /gang way ceiling	M/S-RADISH ALIGERH	
18	Supply Air Duct	M/s-HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-HF VADODARA	
20	Partition panel	M/S-UNIVERSAL NOIDA	
21	Partition pillar	M/S-NAGINA KXH	
22	AC Trough	M/S-MEENA FIBRE	
23	Body Side Doors-2,4	M/S-SVARN INFRATEL	
	Body Side Doors-1,3	M/S-JVR LDH	
24	Compartment Door (PPE)	M/s- HANSPAL COACH KXH	
25	Compartment Door (NPPE)	M/s- HANSPAL COACH KXH	
26	Vestibule Door(PPE)	M/S-KALSI LDH	
27	Vestibule Door(NPPE)	M/S-KALSI LDH	
28	RMPU	M/S-SIDWAL	
29	Bio Tank	M/S-OMAX AUTOS	
30	Pressurized flushing (ele. Pneu.)	M/S-SPAC	
31	Auxiliary Water Tank	M/S-OASIS	
32	Under Slung Water Tank (2X685L)	M/S-OASIS	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG.BADDI	
34	Health Faucet	M/S-HF VADODARA	
35	Lotah Filler Tap	M/S-HF VADODARA	
36	Bib cock	M/S-JAQUAR ALWAR	
37	Lavatory Modules	M/S-HF VADODARA	
38	Lavatory Doors	M/S-HF VADODARA	
39	Fire Extinguisher	M/S-SAFTEY PLUS	6183/6171
40	Automatic smoke & heat Detection with alarm System	NIL	
41	Seat & Berth	M/S-OVPL MUMBAI	
42	Light Luggage Rack	M/S-TECHNO ALD	
43	Snack Table	M/S-DLJM NOIDA	
44	Venturi grill	M/S-HF VADODARA	
45	RFID	NIL	

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25/11/2020

SSE/QC/MCF/RBL

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	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, 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/2020-21/482

RLY	CR	COACH NO	204799/C			DATE OF DISPATCH	15-Sep-20
Type	LWACCN	Shell No.	20C072	DISPATCH TO	SSE/C&W/WB/BB	FUR.NO.	L3T-1493

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 caseextend 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 Applicationfor 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 60º)	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.

Verma 25/11/2020	26/11	Sudhir
SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

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Assistant Mechanical Engineer / Quality-I आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T COACH.

TYPE COACH	**LWACCN**		**SHELL/COACH NO**	**204799/C**	
RAILWAY	**CR**	**ELECT. FIT DATE**	**11-09-2020**	**MCF FUR. NO.**	**3T-1493**

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 .55** Cub mtr/min	OK
3.2	Return Air	**55.93** Cub mtr/min	OK
3.3	Exhaust Air	**6.05** Cub mtr/min	OK
3.4	Conditioned Air	**159.65** 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 :**20.5 ^{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
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Modern Coach Factory Raebareli

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T 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 BERTH READING LIGHTS	OK
10.0	WORKING OF COMPARTMENT LIGHTS	OK
11.0	WORKING OF MOBILE CHARGING SOCKETS	OK
12.0	WORKING OF PUBLIC ADDRESSING SYSTEM (**PAS**)	OK
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (**WSP**)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	OK
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	WORKING OF COMPOSITE PANTRY(**ONLY FOR RAJDHANI COACH)**	N/A
19.0	SAFETY :	---
19.1	OHP :	OK
19.1	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
19.2	LP/HP GAUGE	OK
19.3	HYGROSTAT	OK
19.4	CONTROL CIRCUIT	OK
19.5	POWER CIRCUIT	OK
20.0	REFRIGERANT USED **R 407C**	OK

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : **SIDWAL** Sr no of RMPU 1(NPP side) : **19K 3067** Sr no of RMPU 2(PP side): **19K 3061** Sr no of Microprocessor. : **19102872-SIDWAL**	As per RDSO/PE/SPES/AC/0061/REV-1/2005	**01 Set**
02.	Switch board cabinet Make : **TRINITRON** Sr no : **20/03/TCS/MCF/3423/0184/0095**	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0) **MEDTS-0004,Rev.-1 for Smart SBC**	**01 no.**
03.	Pump equipment with PLC controller & pump box Make: **DR AUTO** PA Sr.no: **20/08/0163** Sr no.1: **3620** Sr no.2 : **3606** Sr.no.CPA: **KIND 20070078**	As per spec EDTS 186,Rev-a, Am-2. As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	**01 Set**
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : **EYYANI**	EDTS331, TYPE-1 CORR.-1&2	**02 no.**
05.	Provision of Passenger area LED Light(Cabin) Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	**09 no.**
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	OK
07.	Provision of Cabin/Corridor Light with Night light. Make: **D R AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	**09 no.**
08.	Mounting of Cabin/Corridor Light with Night light	As per drg no. LW 76091.	OK
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 -	**07 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.**
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: **K.LITE**	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: **INTEG**	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	**04 no.**
14.	Provision of razor socket for WC for 110/240V Make: **SSK**	. EDML047,ITEM-4	**04 no.**

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
15.	PA system for LHB coaches Make: **AHUJA**	EDTS 173,Rev- B,Cor-1.	**01 Set**
16.	Provision of terminal strip complete	EDML 034,Rev-C,DRG NO.LW76054	**01 Set**
17.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	ok
18.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate & 2 no. ON_ OFF switches 6A,250 V AC 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-4 ,Drg. No. LW74202	**09 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 :**SALZER**	As per spec EDML-064,REV-B,Am-1 alt 'c' Item 16,Drg. No. LW74202	**54 no.**
20.	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. Make : **SSK**	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-5, Drg. No. LW74202	**09 no.**
21.	Provision & Mounting of reading light for upper berth Make : **DEVINTEC**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2 & Drg no LW 76094	**27 no.**
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: **IMT**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no. LW 76095 v	**18 no.**
23.	Provision & Mounting of reading light for berth transverse (LHS) Make: **IMT**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no. LW 76096 -	**18 no.**
24.	Provision & Mounting of reading light for berth Longitudinal. Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76096 -	**09 no.**
25.	Provision of High Capacity Inter –Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make:- 1.(NPP): **MAA LAXMI INDUSTREIES** 2.(PP): **MAA LAXMI INDUSTREIES**	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	**01 set**
26.	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 : **11/19**	EDTS 129,Rev nil	**01 set**

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
27.	Provision of Cable Jacket, Size 75, 50, 20 mtr.	As per spec no. EDTS 0138, Item 5,8,11	ok
28.	Provision of cable binder.	As per Drg. No. cc76129 ,Item 2,4.	ok
29.	Battery box for LHB coaches. Make: **HITECH**	As per drgno 1 10113 0 76 700 005,Alt C	**01 no.**
30.	Battery fuse box +ve Make : **RICHMOND**	LW 71001,Alt-H	**01 no.**
31.	Battery fuse box –ve Make : **RICHMOND**	LW 71002,Alt-I	**01 no.**
32.	Provision of Regulated Battery Charger Make: **HITACHI** Sr. no.: **19011983**	As per spec no. RDSO/PE/SPEC/AC/0183-(REV.-0) . Or RDSO/PE/SPEC/AC/0183-2015(REV.-1)-**For Under slung RBC cum EBC.**	**01 no.**
33.	Emergency battery charger Make : **WAVES** Sr.no.: **WEBCK 195681**	EDTS163,REV-C,COR-2&3	**01 no**
34.	Provision of 5 KVA TFR Make : **VIMAL** Sr no : **VTC-3089-LHB-1330**	As Per EDTS-366,REV-NIL & CC-71510	**01 no.**
35.	Provision of capacitor Bank Make: **KONTACT** SL.no.: **KT-1330**	As per EDML-130 Rev-1,Corr-1	**01 no.**
36.	60KVA transformer Make : **VIMAL** Sr no : **VTC-R-3089-LHB-4567**	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	**01 no.**
37.	Feeder junction boxes. Make : **RSI**	EDTS-328 REV-C	**01 set**
38.	Wheel set earthling equipment. Make : **DARSHAN ENTERPRISES**	EDTS101,REV-C,AM-1	**01 set**
39.	Wheel Slide Protection System (WSP) Make : **KNORR** Sr. no : **0119412964**	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	**01 set**
40.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: **MV ELECTRO.**	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	**02**
41.	PANTRY EQUIPMENTS(**ONLY FOR RAJDHANI COACH**). Hot Case, Bottle cooler cum deep freezer Make : N/A	As per spec no EDTS 139, Rev-E, Sec II.	**N/A**

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