



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF
8002/LDSL

REV NO: 00

DATE: 29.01.2019

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/90

RLY	W	R	-	Coach No.	1	9	3	4	3	2	/	C	DATE OF DISPATCH	2	6	-	0	4	-	1	9
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DISPATCH TO	Sr.DME/BCT	Type	L	D	S	L	R	Shell No.	8	9	0	0	2	FUR.NO.	SLR-02
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- Railway Board's Order No. : 2018/M/(C)/142/2, Date: 06.09.2018
- Tare Weight of Coach : 38.19 Tonnes
- Carrying Capacity : (a) Seating: 36 (b) Sleeping: 2 (c) Luggage: 4 tones
- Special features:-

S NO	DESCRIPTION	MAKE/SUPPLIER
A.	Provision of Dog Box-01 no.	SHOP MADE
B.	Luggage capacity-04 Tones.	M/s-JBM FARIDABAD
C.	Lavatory for Disable-01 no.	SHOP MADE
D.	Capacity of Fuel Tank-1540 Liter.	M/s-GAURAV ASSOCIATE,NDLS
E.	Seating capacity-30 nos. and 06 nos. for Disable	M/s-OVPL MUMBAI
F.	Under slung 500 KVA DG set with Alternator	M/S- GREAVES & CG(Alternator)
G.	Stretcher Room-01 no.	SHOP MADE
H.	Water capacity- for Guard Room-600 liter and for Disable passenger area-780 liter	M/s- RUBICON STEEL, MOHALI & FABRICATORS INDIA

5. SHELL LEADING DIMENSIONS:

S NO	DESCRIPTION	DIMENSION (MM)
1.	Maximum length over body	23540
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) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s- NECHD	11/18
	Complete	NPP END M/s- SANTECH INDUSTRIES	0010
		MCF/RBL	89002
2.	Lav. side wall	MCF/RBL	LAV.1 05 LAV.2 06
		MCF/RBL	LAV.3 07 LAV.4 08
3.	Side wall	LH SIDE MCF/RBL	02/01/MCF
		RH SIDE MCF/RBL	02/02/MCF
4.	End wall	PP END M/s- AMIT ENG. MOHALI	---
		NPP END M/s- RSM, MOHALI	---
5.	Roof	MCF/RBL	02
6.	Centre Buffer Coupler	M/S- SANROK ,FARIDABAD	PP END T1313 NPP END T1315
7.	Buffers	M/S- RANEKA INDS.LTD. DHAR	N.A NPP END 89002

7. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
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	06 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 @ 0.1kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK
4.	Handbrake(Parking brake)for Guard room	1.Apply hand brake 2.Release hand brake	1.Hand Bk. indicator should be red 2.Hand Bk. indicator should be green	OK 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	24.01.19
2.	Insulation			Satisfactory		

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओकार, रायबरेली (लाजगंज)



गुणवत्ता / गुणवत्ता



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

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DISPATCH	Sr.DME/BCT	Type	L	D	L	S	R	-	Shell No.	8	9	0	0	2	FUR.NO	SLR-02
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182916				182915			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5- 423 (AIR SPIRING)				MCF/RBL/LS5- 469 (AIR SPIRING)			
Bolster no.	AMIT-259				AMIT-223			
Axle No	18 H - 7163 RWF		17 W - 8277 RWF		18 J- 1238 RWF		18 J- 1189 RWF	
Wheel Dia	917.639	917.618	917.648	917.627	917.614	917.616	917.653	917.682
Wheel Disc No	TZ 05-18 22759-8PN8	TZ 05-18 22758-8PN8	TZ 07-18 37144-8RM7	TZ 07-18 37143-8RM7	TZ 05-18 22760-8PR9	TZ 07-18 37145-8RM7	TZ 07-18 40113-8RT1	TZ 07-18 37316-8RQ7
R.B. Nos.	08-18 20733	09-18 21345	07-18 19509	08-18 19509	09-18 21187	08-18 20720	08-18 20312	07-18 20940
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AVADH RAIL INFRA LTD 05-18 1591	AVADH RAIL INFRA LTD 05-18 1572	AVADH RAIL INFRA LTD 05-18 1566	AVADH RAIL INFRA LTD 05-18 1556

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	239012,238901	239561,239168
2.	Primary outer Spring	CMGBD	10-18 1100-121(21,107,131,32)	10-18 1100-121(85,6,35,37)
3.	Primary Inner Spring	CMFSK	06-17 1101-282-476,04-18 1101-402- (715,182),02-18 1037-395-563	06-17 1101-282-61,02-18 1037-395-596,06-17 1101- 282-287,05-17 1101-282-490
4.	Primary Damper	IAI	12-18 (204960,235175,235188,235082)	12-18 (234843,234280,234264,235129)
5.	Secondary Damper	GEREP	KW16-2018 301550739	KW16-2018 301550739
6.	Lateral Damper	GEREP	KW16-2018 301550559	KW16-2018 301550559
7.	Brake Cylinder	KBI	A(1340,0180,0160,1334)K29	A(1347,0166,0167,1358)K29
8.	Brake Caliper	KBI	A(1523,0766,0765,1524)-29	A(1522,3499,3498,1521)-29
9.	Brake Disc	KBI	24167530 0021-43/18,24167530 0022-43/18 24167530 0019-43/18,24167530 0022-43/18	24167530 0023-43/18,24167529 0016-43/18 24162513 0034-41/18,24162515 0039-41/18
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction lever	PPI/AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR	06-18 A-6959,06-18 A-6902	06-18 A-6956,06-18 A 6967
17.	Check Valve	KNORR		10-2018 4767
18.	Anti roll bar Make	WOM		
19.	Roll Link make	SARITA/AR, SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	201118-4,231118-3,201118-1,211118-1	241118-1,221118-1,231118-1,231118-1
22.	Control Arm Lower	RVE	181218-2,101118-2,191118-1,181118-3	RVE,191118-3,201118-2,2118-18-3
23.	Phonic Wheel	FAV	FT/KEP/1548	FT/KEP/1548

Signature of SSE/Bogie/QC



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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	
2.	Distribution Valve	M/S- KBI, FARIDABAD	2919080026
3.	Pull Box	M/S- KBI, FARIDABAD	2019 B 6868
4.	Hand Brake Equipment	M/S-VAANI PRECISION INDS,BARWAIA	
5.	FIBA	M/S- KBI, FARIDABAD	
6.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	PP/NPP-4682/4704
7.	Floor Board	M/s- ORINTAL. MUMBAI	
8.	PVC	M/s- RESPONSIVE POLYFILM, GZB	
9.	Lavatory Inlay disable & passengers & Guard room	M/S- SEEMA IND. BHOPAL	
10.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway Bridge Mounting (PPE)	M/S- COMPETANT ENG. JUC	
12.	AL. Chequer Plate/Sheet	M/s- RAIL TECH, KXH	
13.	Body Side Window	M/S AGF PVT. LTD, KOLKATA	
14.	Emergency Window	M/S AJC, KOLKATA	
15.	Lavatory/Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling (GFRE) in disable & passengers room	M/s- MILTON, GUJRAT	
17.	Doorway/Gangway /luggage room Ceiling	M/s- MILTON, GUJRAT	
18.	FRP panel for dog box	SHPO MADE	
19.	Side Panel	M/s-SUNGLOW PUNJAB LAMINATE	
20.	Partition panel	M/s-SUNGLOW PUNJAB LAMINATE	
21.	Luggage Sliding Door	M/s- GURU NANAK IND. PVT.LTD. PB	
22.	Disable comptt.door RH & LH	M/s-MOHAN RAIL COMPONENT, HUSSANPUR,KXH	
23.	Passenger comptt.door RH& LH	M/s- JVR INDS, LUDHIYANA	
24.	Guard room door RH& LH	M/s- JVR INDS, LUDHIYANA	
25.	Control room Door	M/s- MOHAN RAIL KXH	
26.	Dog box sliding door	M/s- ICF CHENNAI	
27.	Vestibule Door	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank 1	M/s- RAIL FAB, KXH	
29.	Bio Tank 2,3	M/s- P.D. STEEL	
30.	Under Slung Water Tank (4X390L)	M/s- FABRICATOR INDIA	
31.	Fuel Tank	M/s- GAURAV ASSOCIATE, NDLS	
32.	Flexible Faucet	M/s- RAIL COACH ENG. KXH	
33.	Lotah Filler Tap	M/s- RAIL COACH ENG. KXH	
34.	Bib Cock	M/S- AGMECO INDIA LTD. U.K.	
35.	Lavatory Module	M/s-SUNGLOW PUNJAB LAMINATE (HPL SHEET)	
36.	Lavatory Doors(disable & passengers & Guard room)	M/s- MEENA FIBER GLASS IND. PUDUCHERRY (DISABLE) & KALSI FAB, LDH (PASSENGER&GUARD)	
37.	Fire Extinguisher	M/S- A.K. IND. BHAWANA,DELHI	
38.	Seat & Berth(disable & Panel & Guard room)	M/S- ORIENTAL VENEER PRODUCTS LTD,MUMBAI.	NO.01-6092,NO.02-5942
39.	Luggage Rack	M/s- RAIL TECH, KXH	
40.	Light Luggage Rack	M/s- METAFIL, GURUGRAM	

रिजिस्ट्रार अभियंता
SSE/QC/MCF/RBL
रेडिओ, रायबरेली (जालगंज)



आयुक्त / रायबरेली



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF
8002/LDSLR

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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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 qualityrcfbl@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

मुख्यवक्ता विभाग
रेडि०का०, रायबरेली (बालगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

Joginder Singh
उप मुख्य मुखवक्ता
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:07.01.2019

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FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB UNDER SLUNG POWER CAR****ELECTRICAL TEST CERTIFICATE LHB UNDER SLUNG POWER CAR**

TYPE COACH	LDSLR	SHELL/COACH NO	193432/C
RAILWAY	WR	DATE OF DESPATCH	

FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB POWER CAR****ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR**

Sr no	Description of test	Remarks
1.	LIGHTS,LAP CHARGING SOCKETS	OK
2.	RAILWAY CARRIAGE FAN	OK
3.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
4.	WORKING OF 9 KVA TRANSFORMER	OK
5.	WORKING OF 60KVA TRANSFORMERS	OK
6.	WORKING OF BRACKET FANS	OK
7.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
8.	WORKING OF REGULATED BATTERY CHARGER	OK
9.	WORKING OF STATIC BATTERY CHARGERS	OK
10.	SAFETIES :	
11.	CONTROL CIRCUIT	OK
12.	POWER CIRCUIT	OK
13.	ALTERNATER EARTH LEAKAGE RELAY	OK
14.	FEEDER EARTH LEAKAGE RELAY	OK
15.	UNDER VOLTAGE RELAY	OK
16.	OVER VOLTAGE RELAY	OK
17.	BUS COUPLER	OK
18.	FEEDER CONTACTOR	OK
19.	FUSES AND THEIR RATINGS	OK

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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ROLLING STOCK CERTIFICATE OF LHB UNDER SLUNG POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: CROMPTON	IS 6680/92, First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	12
02.	Provision of Cabin, Corridor, doorway and Gangway Lights, luggage room. Make: DR AUTO	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	21
03.	Fitment of Cabin, Corridor, doorway and Gangway Lights. DR AUTO	As per drg no CC-76453	
04.	Provision of Side Light Fitting 110V DC, 25 W. Make: KAMLESH INDUSTRIES	RDSO /SKEL/4094 with RCF alt a	02
05.	Provision & mounting of lavatory light Make: CMT	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	02
06.	Provision & Mounting of PACIL Assly. Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02
07.	Provision of Cable Jacket ,Size 06Nominal width 25mm ,Length - 1000mm	As per spec no. EDTS 0138, Item 09	
08.	Fitment of Switch Plate Assly (Cabin Side) Make: SSK	EDML 127,Rev-1 & DRG NO CC 4248 Alt-a	05
09.	Fitment of Switch Plate Assly (Corridor Side) Make: SSK	EDML 127,Rev-1 & DRG NO CC 4249 Alt-a	04
10.	Fitment of Accidental Emergency Light system (AEL) Make: V.GIESH COMPANY	EDTS 151, Rev `c`.	02
11.	Power and Control Panel for LHB Power car Make: TRINITRON Sr no : 18/08/TCS/ICF/3419/169/0001	As per spec no. Power & control SBC-S2 (FOR LSRD 1 X 500 KVA Power with HOG compliance) -01 no.	01

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
REV NO: 00

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ROLLING STOCK CERTIFICATE OF LHB UNDER SLUNG POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Switch board cabinet Make: TRINITRON Sr no : 18/11/TCS/RBL/3428/333/0004	As per spec no. EDTS-333,REV.-O,COR-1 & 2.	01
13.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make: HBL Lug date : 12/18	EDTS 129,Rev nil	01 set
14.	SET OF BATTERY FOR DA (A & B) (A)Make: MICROTEX Lug date: 07/18 (B) Make: MICROTEX Lug date: 07/18		01 sets
15.	Battery box for LHB coaches. Make: HITECH	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
18.	60KVA TFR Make: AUTOMATC ELECT. Sr no: 1/18/T510483/23	EDTS 076, Rev-0.	01
19.	Provision of 9 KVA TFR 750/415/190V, 03Ø AC. Make: PANTRONICS Sr no: PAN-18018052	RDSO/PE/SPEC/TL 0158, 2010, Rev`0`,Ty I.	01
20.	ZS coupling 500A/750V/03Ph/50hz. Make : S.INTERNATIONAL	EDTS 105,Rev`e` Am-2	01 sets
21.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	1 Set
22.	Wheel set earthling equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02


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ROLLING STOCK CERTIFICATE OF LHB POWER CAR/LDSLRL

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0118440681	MDTS 077 REV-2	01 set
24.	Provision 500KVA/336 KW,750V/03Ph UNDER SLUNG DIESEL ALTERNATOR set, complete with Power & Control panel.	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.-1)	01
24.a1	Sr no of Alternator Make: CG Sr no : RIAG 1554	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.-1)	01
24.a2	Sr no of Diesel Engine Make: GREAVES Sr no : 1309121805460	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.-1) -01 no	01
24.a3	Roof mounted Radiator assembly complete with water level indicator with tripping mechanism,radiator fans,motor frame work,fan housing,AVMs. Make: P R & OIL COOLER Sr. no.: 001	As per spec no. RDSO/PE/SPEC/AC/0103- 2008(REV.-1)	01 Set
24.a4	Monoblock pump for filling coolant in to radiator tank.		01
24.a5	CAC UNIT Make: POONA RADIATORS Sr no- 001	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.-1)	01Set
25.	24 V Starter Battery Charger Make: WAVES Sr no: WSBCH 18935	EDTS 116,Rev nil	01
26.	4.5 KW Regulated battery charger Make: SIGNOTRON Sr no: 02191243	As per RDSO spec RDSO/PE/SPEC/AC/0183	01
27.	Feeder Junction box. Make: SIDWAL	EDML 020, Rev `a'.	01 set
28.	Provision of Tail light switch 2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: SSK	As per Cat no. SG 16	01
SSE/EL/QC		AWM(ELECT.)/MCF/RBL/ SEE/P/MCF/RBL	

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
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A.W.M./Electrical/MCF/RBL