



## MEMORIAL DE CÁLCULO

**Objeto:** Revitalização de Pintura Externa das UBS

**Endereço:** Diversas localidades no Município de Lajinha/MG.

Os quantitativos relacionados neste memorial de cálculo foram obtidos através de levantamento arquitetônico com auxílio de software, observando os reparos necessários a serem executados na obra de execução de pintura externa das UBS (Unidade Básica de Saúde), em diversas localidades do Município.

- UBS - Santa Terezinha, bairro Santa Terezinha – Lajinha/MG;
- UBS – Novo Horizonte, bairro Sagrada Família – Lajinha/MG;
- UBS – Areado, bairro Areado – Lajinha/MG;
- UBS – Prata, Distrito Prata – Lajinha/MG;
- UBS – Palmeiras, Comunidade Palmeiras, Zona Rural – Lajinha/MG
- UBS – Socapó, Comunidade Santo Antônio da Pedra Bonita, Zona Rural – Lajinha/MG;
- UBS – Córrego Rico, Córrego Rico, Zona Rural – Lajinha/MG;
- UBS – Aldeia, Comunidade Aldeia, Zona Rural – Lajinha/MG.

### 1.0 – PINTURA

#### 1.1 – MASSA CORRIDA ACRÍLICA

- **UBS SANTA TEREZINHA:**

$$= (2,75+1,93+1,25+0,50+1,25+0,50+1,08+2,72+2,0+7,08+4,60+2,78+0,30+4,63+0,30+1,40+2,93) = 38,0 \times 4,0 = 152,0 \text{ m}^2$$

Descontos:

$$(12,34 \times 1,10) = 13,57 \text{ m}^2$$



# PREFEITURA DE LAJINHA

$$(1,40 \times 1,20) = 1,68 \times 10 = 16,80 \text{ m}^2$$

$$(0,80 \times 2,10) = 1,68 \text{ m}^2$$

$$(0,60 \times 0,60) = 0,36 \text{ m}^2$$

$$\text{TOTAL: } (152,0 - 32,41) = 119,59 \text{ m}^2$$

- **UBS NOVO HORIZONTE:**

$$(26,68 + 3,80 + 6,65 + 4,68 + 1,53 + 9,45 + 1,53 + 16,40 + 11,86) = 82,58 \times 7,10 = 586,32 \text{ m}^2$$

$$(30,0 + 12,0 + 30,0) = 72,0 \times 2,20 = 158,40 \text{ m}^2$$

Descontos:

$$0,80 \times 2,60 = 2,08 \text{ m}^2$$

$$4,05 \times 0,70 = 2,84 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \times 5 = 12,60 \text{ m}^2$$

$$2,37 \times 1,40 = 3,32 \text{ m}^2$$

$$2,25 \times 1,40 = 3,15 \times 2 = 6,30 \text{ m}^2$$

$$2,65 \times 1,40 = 3,71 \times 3 = 11,13 \text{ m}^2$$

$$3,30 \times 1,40 = 4,62 \text{ m}^2$$

$$2,75 \times 1,40 = 3,85 \times 3 = 11,55 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$0,60 \times 70 = 0,42 \times 3 = 1,26 \text{ m}^2$$

$$0,90 \times 0,70 = 0,63 \times 6 = 3,78 \text{ m}^2$$

$$3,25 \times 1,40 = 4,55 \text{ m}^2$$

$$1,25 \times 0,70 = 0,88 \times 2 = 1,76 \text{ m}^2$$

$$0,75 \times 2,10 = 1,58 \text{ m}^2$$

$$0,90 \times 2,10 = 1,89 \text{ m}^2$$

$$0,85 \times 1,40 = 1,19 \text{ m}^2$$

$$1,85 \times 1,40 = 2,59 \text{ m}^2$$

$$1,32 \times 1,40 = 1,85 \text{ m}^2$$



# PREFEITURA DE LAJINHA

$$2,24 \times 0,70 = 1,57 \text{ m}^2$$

$$1,65 \times 0,70 = 1,16 \text{ m}^2$$

$$1,65 \times 1,40 = 2,31 \text{ m}^2$$

$$\text{TOTAL: } (744,72 - 81,61) = 663,11 \text{ m}^2$$

- **UBS AREADO:**

$$= (23,85 + 3,40 + 0,80 + 11,75 + 2,80 + 3,35 + 8,35 + 7,90 + 6,25 + 1,50 + 14,65 + 2,20 + 1,35 + 2,05 + 3,75 + 13,40) = 107,35 \times 3,90 = 418,67 \text{ m}^2$$

Descontos:

$$2,0 \times 2,10 = 4,20 \text{ m}^2$$

$$1,20 \times 1,20 = 1,44 \times 17 = 24,48 \text{ m}^2$$

$$0,60 \times 0,60 = 0,36 \times 11 = 3,96 \text{ m}^2$$

$$4,0 \times 1,20 = 4,80 \times 3 = 14,40 \text{ m}^2$$

$$1,60 \times 2,10 = 3,36 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \times 4,0 = 6,72 \text{ m}^2$$

$$\text{TOTAL: } (418,67 - 52,92) = 365,75 \text{ m}^2$$

- **UBS PRATA:**

$$= (17,30 + 25,75 + 13,21 + 3,85 + 2,40 + 15,65 + 1,50 + 2,65 + 6,30 + 6,60) = 95,21 \times 4,26 = 405,59 \text{ m}^2$$

Descontos:

$$1,0 \times 1,20 = 1,20 \times 2 = 2,40 \text{ m}^2$$

$$1,40 \times 1,20 = 1,68 \times 8 = 13,44 \text{ m}^2$$

$$1,50 \times 1,20 = 1,80 \times 11 = 19,80 \text{ m}^2$$

$$1,0 \times 0,60 = 0,60 \times 5 = 3,0 \text{ m}^2$$

$$0,80 \times 1,40 = 1,12 \times 2 = 2,24 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \times 5 = 8,40 \text{ m}^2$$

$$1,50 \times 2,10 = 3,15 \text{ m}^2$$

$$\text{TOTAL: } (405,59 - 52,43) = 353,16 \text{ m}^2$$



# PREFEITURA DE LAJINHA

- **UBS PALMEIRAS:**

$$= (8,40+11,30+6,0+2,50+ 7,30) = 35,50 \times 3,20 = 113,60 \text{ m}^2$$

$$= (6,0+4,0+4,0) = 14,0 \times 1,0 = 14,0 \text{ m}^2$$

Descontos:

$$1,0 \times 1,0 = 1,0 \times 4,0 = 4,0 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$\textbf{TOTAL: (127,60 – 8,20) = 119,40 m}^2$$

- **UBS SOCAPÓ**

$$= (8,40+4,55+2,80+1,50+9,70+3,80+1,80+2,0+1,80+3,80+5,45+1,85+8,0+1,85+ 10,60+ 3,80+3,20+3,20+2,0+3,80+7,10) = 91,0 \times 7,05 = 641,55 \text{ m}^2$$

$$= (3,75+3,90+3,75) = 11,40 \times 1,70 = 19,38 \text{ m}^2$$

$$= (28,90+31,90+28,90) = 87,80 \times 2,0 = 175,60 \text{ m}^2$$

Descontos:

$$1,0 \times 0,40 = 0,40 \times 2 = 0,80 \text{ m}^2$$

$$1,10 \times 2,10 = 2,31 \text{ m}^2$$

$$1,0 \times 0,80 = 0,80 \times 7 = 5,60 \text{ m}^2$$

$$2,0 \times 0,80 = 1,60 \times 10 = 16,0 \text{ m}^2$$

$$2,0 \times 2,20 = 4,40 \text{ m}^2$$

$$4,25 \times 3,0 = 14,02 \text{ m}^2$$

$$0,95 \times 0,80 = 0,76 \text{ m}^2$$

$$1,20 \times 1,0 = 1,20 \text{ m}^2$$

$$1,80 \times 2,60 = 4,68 \text{ m}^2$$

$$0,55 \times 2,10 = 1,15 \times 2 = 2,30 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$\textbf{TOTAL: (836,53 – 54,59) = 781,94 m}^2$$

- **UBS CÓRREGO RICO**



## PREFEITURA DE **LAIJINHA**

$$= (5,0+9,80+3,65+3,30+5,40+1,0) = 28,15 \times 3,0 = 84,45 \text{ m}^2$$

Descontos:

$$1,50 \times 2,20 = 3,30 \text{ m}^2$$

$$1,30 \times 2,20 = 2,86 \text{ m}^2$$

$$1,40 \times 1,20 = 1,68 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$\text{TOTAL: } (84,45 - 9,52) = 74,93 \text{ m}^2$$

- **UBS ALDEIA**

$$= (8,40+4,55+2,80+1,50+9,70+3,80+1,80+2,0+1,80+3,80+5,45+1,85+8,0+1,85+10,60+3,80+3,20+3,20+2,0+3,80+7,10) = 91,0 \times 7,05 = 641,55 \text{ m}^2$$

$$= (3,75+3,90+3,75) = 11,40 \times 1,70 = 19,38 \text{ m}^2$$

$$= (28,90+31,90+28,90) = 87,80 \times 2,0 = 175,60 \text{ m}^2$$

- Descontos:

$$1,0 \times 0,40 = 0,40 \times 2 = 0,80 \text{ m}^2$$

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$$4,25 \times 3,0 = 14,02 \text{ m}^2$$

$$0,95 \times 0,80 = 0,76 \text{ m}^2$$

$$1,20 \times 1,0 = 1,20 \text{ m}^2$$

$$1,80 \times 2,60 = 4,68 \text{ m}^2$$

$$0,55 \times 2,10 = 1,15 \times 2 = 2,30 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$\text{TOTAL: } (836,53 - 54,59) = 781,94 \text{ m}^2$$

### 1.2 – SELADOR

- **UBS SANTA TEREZINHA:**



## PREFEITURA DE LAJINHA

$$= (2,75+1,93+1,25+0,50+1,25+0,50+1,08+2,72+2,0+7,08+4,60+2,78+0,30+4,63+0,30+1,40+2,93) = 38,0 \times 4,0 = 152,0 \text{ m}^2$$

Descontos:

$$(12,34 \times 1,10) = 13,57 \text{ m}^2$$

$$(1,40 \times 1,20) = 1,68 \times 10 = 16,80 \text{ m}^2$$

$$(0,80 \times 2,10) = 1,68 \text{ m}^2$$

$$(0,60 \times 0,60) = 0,36 \text{ m}^2$$

$$\text{TOTAL: } (152,0 - 32,41) = 119,59 \text{ m}^2$$

- **UBS NOVO HORIZONTE:**

$$(26,68+3,80+6,65+4,68+1,53+9,45+1,53+16,40+11,86) = 82,58 \times 7,10 = 586,32 \text{ m}^2$$

$$(30,0+12,0+30,0) = 72,0 \times 2,20 = 158,40 \text{ m}^2$$

Descontos:

$$0,80 \times 2,60 = 2,08 \text{ m}^2$$

$$4,05 \times 0,70 = 2,84 \text{ m}^2$$

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$$2,65 \times 1,40 = 3,71 \times 3 = 11,13 \text{ m}^2$$

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$$0,60 \times 70 = 0,42 \times 3 = 1,26 \text{ m}^2$$

$$0,90 \times 0,70 = 0,63 \times 6 = 3,78 \text{ m}^2$$

$$3,25 \times 1,40 = 4,55 \text{ m}^2$$

$$1,25 \times 0,70 = 0,88 \times 2 = 1,76 \text{ m}^2$$

$$0,75 \times 2,10 = 1,58 \text{ m}^2$$





# PREFEITURA DE LAJINHA

$$0,90 \times 2,10 = 1,89 \text{ m}^2$$

$$0,85 \times 1,40 = 1,19 \text{ m}^2$$

$$1,85 \times 1,40 = 2,59 \text{ m}^2$$

$$1,32 \times 1,40 = 1,85 \text{ m}^2$$

$$2,24 \times 0,70 = 1,57 \text{ m}^2$$

$$1,65 \times 0,70 = 1,16 \text{ m}^2$$

$$1,65 \times 1,40 = 2,31 \text{ m}^2$$

$$\text{TOTAL: } (744,72 - 81,61) = 663,11 \text{ m}^2$$

- **UBS AREADO:**

$$= (23,85 + 3,40 + 0,80 + 11,75 + 2,80 + 3,35 + 8,35 + 7,90 + 6,25 + 1,50 + 14,65 + 2,20 + 1,35 + 2,05 + 3,75 + 13,40) = 107,35 \times 3,90 = 418,67 \text{ m}^2$$

Descontos:

$$2,0 \times 2,10 = 4,20 \text{ m}^2$$

$$1,20 \times 1,20 = 1,44 \times 17 = 24,48 \text{ m}^2$$

$$0,60 \times 0,60 = 0,36 \times 11 = 3,96 \text{ m}^2$$

$$4,0 \times 1,20 = 4,80 \times 3 = 14,40 \text{ m}^2$$

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$$0,80 \times 2,10 = 1,68 \times 4,0 = 6,72 \text{ m}^2$$

$$\text{TOTAL: } (418,67 - 52,92) = 365,75 \text{ m}^2$$

- **UBS PRATA:**

$$= (17,30 + 25,75 + 13,21 + 3,85 + 2,40 + 15,65 + 1,50 + 2,65 + 6,30 + 6,60) = 95,21 \times 4,26 = 405,59 \text{ m}^2$$

Descontos:

$$1,0 \times 1,20 = 1,20 \times 2 = 2,40 \text{ m}^2$$

$$1,40 \times 1,20 = 1,68 \times 8 = 13,44 \text{ m}^2$$

$$1,50 \times 1,20 = 1,80 \times 11 = 19,80 \text{ m}^2$$

$$1,0 \times 0,60 = 0,60 \times 5 = 3,0 \text{ m}^2$$



# PREFEITURA DE LAJINHA

$$0,80 \times 1,40 = 1,12 \times 2 = 2,24 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \times 5 = 8,40 \text{ m}^2$$

$$1,50 \times 2,10 = 3,15 \text{ m}^2$$

$$\text{TOTAL: } (405,59 - 52,43) = 353,16 \text{ m}^2$$

- **UBS PALMEIRAS:**

$$= (8,40 + 11,30 + 6,0 + 2,50 + 7,30) = 35,50 \times 3,20 = 113,60 \text{ m}^2$$

$$= (6,0 + 4,0 + 4,0) = 14,0 \times 1,0 = 14,0 \text{ m}^2$$

Descontos:

$$1,0 \times 1,0 = 1,0 \times 4,0 = 4,0 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$\text{TOTAL: } (127,60 - 8,20) = 119,40 \text{ m}^2$$

- **UBS SOCAPÓ**

$$= (8,40 + 4,55 + 2,80 + 1,50 + 9,70 + 3,80 + 1,80 + 2,0 + 1,80 + 3,80 + 5,45 + 1,85 + 8,0 + 1,85 + 10,60 + 3,80 + 3,20 + 3,20 + 2,0 + 3,80 + 7,10) = 91,0 \times 7,05 = 641,55 \text{ m}^2$$

$$= (3,75 + 3,90 + 3,75) = 11,40 \times 1,70 = 19,38 \text{ m}^2$$

$$= (28,90 + 31,90 + 28,90) = 87,80 \times 2,0 = 175,60 \text{ m}^2$$

Descontos:

$$1,0 \times 0,40 = 0,40 \times 2 = 0,80 \text{ m}^2$$

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$$1,0 \times 0,80 = 0,80 \times 7 = 5,60 \text{ m}^2$$

$$2,0 \times 0,80 = 1,60 \times 10 = 16,0 \text{ m}^2$$

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$$4,25 \times 3,0 = 14,02 \text{ m}^2$$

$$0,95 \times 0,80 = 0,76 \text{ m}^2$$

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# PREFEITURA DE LAJINHA

$$0,55 \times 2,10 = 1,15 \times 2 = 2,30 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$\text{TOTAL: } (836,53 - 54,59) = 781,94 \text{ m}^2$$

- **UBS CÓRREGO RICO**

$$= (5,0 + 9,80 + 3,65 + 3,30 + 5,40 + 1,0) = 28,15 \times 3,0 = 84,45 \text{ m}^2$$

Descontos:

$$1,50 \times 2,20 = 3,30 \text{ m}^2$$

$$1,30 \times 2,20 = 2,86 \text{ m}^2$$

$$1,40 \times 1,20 = 1,68 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$\text{TOTAL: } (84,45 - 9,52) = 74,93 \text{ m}^2$$

- **UBS ALDEIA**

$$= (8,40 + 4,55 + 2,80 + 1,50 + 9,70 + 3,80 + 1,80 + 2,0 + 1,80 + 3,80 + 5,45 + 1,85 + 8,0 + 1,85 + 10,60 + 3,80 + 3,20 + 3,20 + 2,0 + 3,80 + 7,10) = 91,0 \times 7,05 = 641,55 \text{ m}^2$$

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# PREFEITURA DE LAJINHA

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$\text{TOTAL: } (836,53 - 54,59) = 781,94 \text{ m}^2$$

## 1.3 – PINTURA ACRÍLICA PAREDE

### • UBS SANTA TEREZINHA:

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# PREFEITURA DE LAJINHA

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$$0,85 \times 1,40 = 1,19 \text{ m}^2$$

$$1,85 \times 1,40 = 2,59 \text{ m}^2$$

$$1,32 \times 1,40 = 1,85 \text{ m}^2$$

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$$1,0 \times 0,60 = 0,60 \times 5 = 3,0 \text{ m}^2$$



# PREFEITURA DE LAJINHA

$$0,80 \times 1,40 = 1,12 \times 2 = 2,24 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \times 5 = 8,40 \text{ m}^2$$

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$$\text{TOTAL: } (405,59 - 52,43) = 353,16 \text{ m}^2$$

- **UBS PALMEIRAS:**

$$= (8,40 + 11,30 + 6,0 + 2,50 + 7,30) = 35,50 \times 3,20 = 113,60 \text{ m}^2$$

$$= (6,0 + 4,0 + 4,0) = 14,0 \times 1,0 = 14,0 \text{ m}^2$$

Descontos:

$$1,0 \times 1,0 = 1,0 \times 4,0 = 4,0 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$\text{TOTAL: } (127,60 - 8,20) = 119,40 \text{ m}^2$$

- **UBS SOCAPÓ**

$$= (8,40 + 4,55 + 2,80 + 1,50 + 9,70 + 3,80 + 1,80 + 2,0 + 1,80 + 3,80 + 5,45 + 1,85 + 8,0 + 1,85 + 10,60 + 3,80 + 3,20 + 3,20 + 2,0 + 3,80 + 7,10) = 91,0 \times 7,05 = 641,55 \text{ m}^2$$

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$$= (28,90 + 31,90 + 28,90) = 87,80 \times 2,0 = 175,60 \text{ m}^2$$

Descontos:

$$1,0 \times 0,40 = 0,40 \times 2 = 0,80 \text{ m}^2$$

$$1,10 \times 2,10 = 2,31 \text{ m}^2$$

$$1,0 \times 0,80 = 0,80 \times 7 = 5,60 \text{ m}^2$$

$$2,0 \times 0,80 = 1,60 \times 10 = 16,0 \text{ m}^2$$

$$2,0 \times 2,20 = 4,40 \text{ m}^2$$

$$4,25 \times 3,0 = 14,02 \text{ m}^2$$

$$0,95 \times 0,80 = 0,76 \text{ m}^2$$

$$1,20 \times 1,0 = 1,20 \text{ m}^2$$

$$1,80 \times 2,60 = 4,68 \text{ m}^2$$



# PREFEITURA DE LAJINHA

$$0,55 \times 2,10 = 1,15 \times 2 = 2,30 \text{ m}^2$$

$$1,20 \times 2,10 = 2,52 \text{ m}^2$$

$$\text{TOTAL: } (836,53 - 54,59) = 781,94 \text{ m}^2$$

- **UBS CÓRREGO RICO**

$$= (5,0 + 9,80 + 3,65 + 3,30 + 5,40 + 1,0) = 28,15 \times 3,0 = 84,45 \text{ m}^2$$

Descontos:

$$1,50 \times 2,20 = 3,30 \text{ m}^2$$

$$1,30 \times 2,20 = 2,86 \text{ m}^2$$

$$1,40 \times 1,20 = 1,68 \text{ m}^2$$

$$0,80 \times 2,10 = 1,68 \text{ m}^2$$

$$\text{TOTAL: } (84,45 - 9,52) = 74,93 \text{ m}^2$$

- **UBS ALDEIA**

$$= (8,40 + 4,55 + 2,80 + 1,50 + 9,70 + 3,80 + 1,80 + 2,0 + 1,80 + 3,80 + 5,45 + 1,85 + 8,0 + 1,85 + 10,60 + 3,80 + 3,20 + 3,20 + 2,0 + 3,80 + 7,10) = 91,0 \times 7,05 = 641,55 \text{ m}^2$$

$$= (3,75 + 3,90 + 3,75) = 11,40 \times 1,70 = 19,38 \text{ m}^2$$

$$= (28,90 + 31,90 + 28,90) = 87,80 \times 2,0 = 175,60 \text{ m}^2$$

- Descontos:

$$1,0 \times 0,40 = 0,40 \times 2 = 0,80 \text{ m}^2$$

$$1,10 \times 2,10 = 2,31 \text{ m}^2$$

$$1,0 \times 0,80 = 0,80 \times 7 = 5,60 \text{ m}^2$$

$$2,0 \times 0,80 = 1,60 \times 10 = 16,0 \text{ m}^2$$

$$2,0 \times 2,20 = 4,40 \text{ m}^2$$

$$4,25 \times 3,0 = 14,02 \text{ m}^2$$

$$0,95 \times 0,80 = 0,76 \text{ m}^2$$

$$1,20 \times 1,0 = 1,20 \text{ m}^2$$

$$1,80 \times 2,60 = 4,68 \text{ m}^2$$

$$0,55 \times 2,10 = 1,15 \times 2 = 2,30 \text{ m}^2$$



# PREFEITURA DE **LAJINHA**

$1,20 \times 2,10 = 2,52 \text{ m}^2$

**TOTAL:  $(836,53 - 54,59) = 781,94 \text{ m}^2$**

Lajinha/MG, 11 de agosto de 2020.

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Thaís Boechat de Lima  
Engenheira Civil CREA MG 212.895/D

