



MEMORIAL DE CÁLCULO

OBRA: Recapeamento Asfáltico em CBUQ

LOCAL: LOCAL: Rua Teotônio Tito Teixeira, Rua Odilon Sotero de Oliveira, Rua Jair de Oliveira e Rua Prof. Samuel João de Deus – centro -Paula Cândido – MG

1- Instalações Preliminares e Canteiro:

1.1 - Placa da obra: $3,00\text{m} \times 1,50\text{m} = 4,50\text{m}^2$

1.3 – Barracão de obra: $2,00\text{m} \times 1,50\text{m} = 3,00\text{m}^2$

2 - Recapeamento Asfáltico

2.1 - Pintura de ligação $((51,00\text{M} \times 2,20\text{M}) + (96,00\text{M} \times 4,56\text{M}) + (127,00\text{M} \times 3,65\text{M}) + (80,0\text{M} \times 3,80) + (81,00\text{M} \times 4,56\text{M}) + (124,00\text{M} \times 2,83)) = 2.037,79\text{m}^2$ - CAMADA DE REGULARIZAÇÃO

2.2 - CBUQ: $2.037,79\text{m}^2 \times 0,03\text{m} = 61,13\text{m}^3$ - CAMADA DE REGULARIZAÇÃO

2.3 - Pintura de ligação: $((51,00\text{M} \times 2,20\text{M}) + (96,00\text{M} \times 4,56\text{M}) + (127,00\text{M} \times 3,65\text{M}) + (80,0\text{M} \times 3,80) + (81,00\text{M} \times 4,56\text{M}) + (124,00\text{M} \times 2,83)) = 2.037,79\text{m}^2 = 2.037,79\text{m}$ - CAPA

2.4 - CBUQ: $2.037,79\text{m}^2 \times 0,02\text{m} = 40,76\text{m}^3$ - CAPA

2.5 - Transporte do CBUQ (DMT=73,90km): $((61,13\text{M}^3 + 40,76\text{M}^3) \times 73,90\text{km}) = 7.529,670\text{m}^3 \times \text{km}$

2.6 - Transporte material betuminoso DMT= 150km

$((2.037,79\text{m}^2 \times 0,0005\text{t}/\text{m}^2) + (2.037,79\text{m}^2 \times 0,0005\text{ton}/\text{m}^2) + ((61,13\text{M}^3 + 40,76\text{M}^3) \times 0,144\text{ton}/\text{m}^3)) \times 150\text{km} = 2.506,49\text{ton} \times \text{km}$

2.7 - Transporte agregado = 30km



Prefeitura Municipal de Paula Cândido

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$$(61,13M^3 + 40,76M^3) \times 0,2328m^3/m^3 + (61,13M^3 + 40,76M^3) \times 1,3224m^3/m^3)) \times 30km = 4.753,78 \text{ m}^3 \times km$$

$$2.8 - \text{Sarjeta: } ((51,00M + 96,00M + 127,00M + 80,00M + 81,00M + 124,00M) \times \text{dois lados}) = 1.118,00m$$

Paula Cândido, 26 de Novembro de 2016.

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