

# Mini Project - I Report

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# 1 Description

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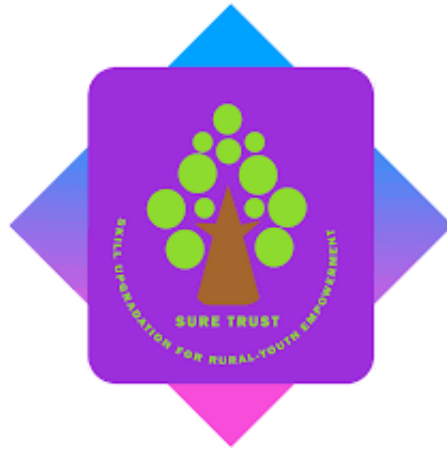


Figure 1: SURE Trust Logo

## 1.1 Key Points

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## 1.2 Key Points

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### **1.3 Key Points**

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## **2 Block Diagram**

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## **3 Inputs and Outputs**

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## 4 Mathematical Equations

The Pythagorean theorem states that for any right triangle with legs of length  $a$  and  $b$  and hypotenuse of length  $c$ , we have:

$$a^2 + b^2 = c^2$$

The quadratic formula can be used to solve any quadratic equation of the form  $ax^2 + bx + c = 0$ :

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

The Taylor series expansion of the exponential function is:

$$e^x = \sum_{n=0}^{\infty} \frac{x^n}{n!}$$

The Fourier series expansion of a periodic function  $f(x)$  with period  $2L$  is:

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left( a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$$