

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“JNANASANGAMA” BELGAUM – 590 018

KARNATAKA



## PROJECT REPORT

ON

“MILK TESTER”

SPONSORED BY ‘KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY’ (KSCST), IISc, Bangalore

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By:

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(An ISO 9001:2008 Certified Institution)



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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

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## *Abstract*

Milk is a compulsory part of daily diet for the growing children. Milk is very important due to its special nutritive value and important role for human health. Adulteration is practised either to substitute cheaper ingredients or to impress the buyer to think the product is more valuable or of better quality or to increase the shelf life of the milk. Most of the chemicals used are poisonous and cause health hazards.

Milk is most commonly diluted with water-this not only reduces its nutritional value, but contaminated water can also cause additional health problems. The other adulterants used are mainly starch, sodium hydroxide, sugar, urea, hydrated lime, sodium carbonate and formalin. To detect these adulterants chemical lab tests are being used in the milk processing industries, which is a tedious process. So here is an electronic kit which differentiates between the pure and impure milk based on voltage variation. It is a advantageous when compared to chemical tests.