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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-**

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**A MICRO PROJECT REPORT ON  
“INDICATION OF CONSUMPTION OF ENERGY”**

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**CERTIFICATE**

This is to certify that the Micro-Project entitled **"INDICATION OF CONSUMPTION OF ENERGY"** has been Successfully Completed by

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The bonafide students of **Department of Basic Sciences, Alva's Institute of Engineering and Technology**, affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, during the academic year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

  
**Dr. Ramaprasad A.T**  
Mini Project Guide

  
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## **ABSTRACT**

Hospital electricity demands are distinguished by the need for high-quality, guaranteed supplies. The existence of captive electricity uses, as well as the size and consistency of the electrical and heat loads required by hospitals, are factors that could support the installation of natural gas-fired cogeneration plants (CHP). The goal of this paper is to estimate the technical potential of CHP in hospitals. This potential is evaluated using a classification of hospitals based on specific energy consumption indicators, taking into account gas-fueled engines associated with absorption cooling systems. A potential figure of approximately 500 MWe was obtained, but effective implementation is hampered by the inherent challenges of the hospital sector.