

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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**PROJECT REPORT
ON
“ELECTRONIC DISPLAY SYSTEM FOR BOTH BLIND
AND NORMAL PEOPLE”**

A dissertation work submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING

In

ELECTRONICS AND COMMUNICATION ENGINEERING

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2014-2015

ABSTRACT

The majority of blind people have useful vision. However, they may have to be taught to use this vision efficiently. This people may read regular or large print using Braille and may learn through visual channels in addition to tactile methods. Blind people who are unable to learn through visual channels and require teaching through sensory and tactile channels are considered blind from an educational perspective. Alternate learning media such as audio taped materials can be used but the noise and disturbance in environment acts as an interruption while listening to them and it is not useful if a person is both blind and deaf.

If a Blind person requires alternate format materials such as large print or Braille, it is essential to introduce these materials as early as possible so the person has a great deal of exposure to them. But this cannot happen because printing a Braille character takes a lot of time and is expensive. The person who will be using Braille to access the printed word needs to be exposed to Braille in books from an early age. People with decreasing vision may read printed Braille. The solution for this is using is electronic refreshable Braille display.

However today's available electronic Braille displays are expensive and can be read by only trained blind people/trained persons in Braille system. It is not understood by normal people ('Normal people' Refers to people with enough eye sight to see and sense the visible data). To overcome this drawback the Titled project proposes a model of electronic display system which is capable of displaying data which can be accessed or readout by both blind & Normal people. While designing the model we have taken cost, portability, accessibility and reliability as key designing factors. This project is intended to change the present scenario of electronic displays and will be very helpful to the society.

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