VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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A PROJECT REPORT
ON

"VEHICLE DETECTION FOR VISUALLY IMPAIRED USING RFID"

Submitted in partial fulfillment of the requirements for the Award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

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2012-2013

ABSTRACT

This project outlines a bus detection mechanism for the blind in travelling from one place to another. In order to get transportation independently, the blind use auditory touched clues like walking stick or white cane. The limitation of the walking stick is that a blind person must come into close proximity with their surroundings to determine the location of an obstacle. For that basis, various devices have been developed such as the Sonicguide, the Mowat sensor. However, these devices can only assist the blind at a pedestrian crossing. Therefore, the project is aims to develop a bus detection prototype using Radio Frequency Identification (RFID) for the blind. The project covers brief idea about the blind and RFID system.

The blind will have the RFID module which has the database about the buses stored in the memory and RFID Reader which interacts with RFID Tag placed on the bus. When the bus comes in the range of the reader, the reader reads the tag and the information about the bus is played through the speaker. The device provides some degree of independence for the blind in outdoor navigation.