VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM

A
PROJECT REPORT
ON

"GSM NETWORK CONTROLLED ROBOT WITH VIDEO & AUDIO COMMUNICATION"

(A BOON FOR PARALYZED, LAME & BED RIDDEN'S)

(Sponsored by KSCST 32nd series of SPP, Govt of Karnataka)

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ABSTRACT:

This project aims to operate the robot globally sitting in any corner of the world. Conventionally, wireless-controlled robots use RF circuits, which have the drawbacks of limited working range, limited frequency range and limited control. Use of GSM NETWORK can overcome these limitations. It provides the advantage of robust control, working range as large as the coverage area of the service provider almost the entire world.

Usually a paralyzed, lame or bed ridden people cannot visualize happenings at their home when they are alone or other people cannot keep track of these patients when they are left alone at home. That too now a day a family will not have more then three to four people at home and almost every one will be working. So this project aims to help out such type of a people. We are designing a robot which is totally controlled by a GSM network which can roam around & is installed with video and audio communicating devices so that a physically challenged person can visualize the happenings at their home laying on their bed or other people can keep track when these physically challenged people are left alone at home. The purpose of using GSM network to control is , mobile can be easily owned and is used for many purpose and has a large coverage area. It can also be used in military, industrial and many other applications.

Although the appearance and capabilities of robots vary vastly, all robots share the features of a mechanical, movable structure under some form of control. The control of robot involves three distinct phases: perception, processing and action. Generally, the preceptors are sensors mounted on the robot, processing is done by the on-board microcontroller or processor, and the task (action) is performed using motors or with some other actuators.