**Preface**

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**ABSTRACT**

‘Microcontroller Based Monitoring System’ is a simple and economical system. Intercoms or calling bells proves to be a costlier option for communication between inmates and the assisting staff. Since such a provision can be limited number of points in small hotels, small offices. The system provides an audio-visual identification of call point. This project proposes, monitoring system using Flash based microcontroller IC AT89C51. The system provides feedback to the caller in the form of busy signal. Using minimal hardware and software, it is a clean and easy way to communicate. This system can be also used in hospitals. When switch is pressed then corresponding call-point number is displayed on counter. The system is efficient, flexible and low cost. The system is advantageous in such a way that it saves time and efforts of a person.