

## **SURGICAL ROBOTIC ARM HELPING IN MEDICAL SURGERY**

*Robotically assisted surgeries developed to overcome the limitations of minimally invasive surgery and to enhance the capabilities of surgeons performing open surgery. The approach of DTMF technology using mobile phones has the ability to control the surgeries. In this project the robot is controlled by mobile phone. Keypad tone corresponding to the button pressed is heard at the other end of the call. This tone is called Dual Tone Multiple Frequency Tone. The robot receives these tones via the receiver mobile phone which is on board. The received tone is processed by the microcontroller with the help of DTMF decoder IC CM8870DE. The microcontroller is preprogrammed to take a decision for any given input and outputs its decision to the motor drivers in order to drive the motors. Also for the controlling or for varying the blade speeds there will be a voltage divider network and related motor driver and motor.*