In GSM based motor controllers are specifically design to operate remote located pumps and motors for benefit of farmers, agriculture people and industries where wireless pump and motor control required.User can operate pump/motor from anywhere, from any distance via sms as well as just missed call.It connects worldwide,low reliable operation,low cost,good quality,less maintenance and robust device.Hardware requirements are SIM900A and ARDUINO.Software requirements are PUTTY terminal and USB to serial drives .  In this system, a real time data can be accessed world-wide using the GSM network. The system can also be configured to control an alarm or any other electrical device via a mobile phone using SMS text messaging. The proposed system controls the motor direction from the remote location, determines the time duration the motor is in a specified direction and whenever it crosses the Cellular Shield to the SM5100B Module. The Cellular Shield will send the signal to the output PIN's which are programmed using C language to control the motor operation. The concerned authority can control the system through his mobile phone by sending AT Commands to GSM MODEM and in turn to microcontroller. The system uses GSM technology [2] thus providing the access to the system for security and automated monitoring and control the motor operations.

Some wise scientist once said that control system is a system where we can shut down the machine whenever we want. That’s the difference between controlled and uncontrolled machine. Our project is about make this control system efficient and dynamic. As the name suggested the automatic control is for controlling the motor from remote place, look over it’s operating conditions, get feedback from the motor itself. Our target is to control the motor from distant place by mobile DTMF tone and also get feedback by SMS while it is in ON or OFF condition. We also ensure the safe operation of the motor by detecting the voltage of the source and ensure feedback from system while it is over or under voltage. Again we also get these feedbacks by SMS as well. GSM network is everywhere in our country that’s why we choose GSM network to operate our motor also transfer feedback information through it. We also use GSM network because if we use it then we don’t need to establish extra equipment for networking. To transmit feedback signals we use GSM modem at the motor end also generate control signal by mobile DTMF because it is very easy to generate DTMF by mobile station and send feedback SMS by Modem as well. In industrial sector we hope our project is become handy and cost effective to operate motor and give it’s protection