**DESIGN OF BORDER ALERT SYSTEM FOR FISHERMEN USING GPS**

**ABSTRACT:**

In day-to- day life we hear about many tamil fishermen being caught and put under srilankan custody and even killed. The sea border between the countries is not easily identifiable, which is the main reason for this cross border cruelty. Here we have designed a system using embedded system and IOT which protects the fishermen by notifying the country border to them by using Global Positioning System (GPS) and Global system for mobile communication (GSM). We use GPS receiver to find the current location of the fishing boat or vessel. Using GPS, we can find the current latitude and longitude values and is sent to the microcontroller unit. Then the controller unit finds the current location by comparing the present latitude and longitudinal values with the predefined value. Then from the result of the comparison, this system aware the fishermen that they are about to reach the nautical border.If the fisherman did not take any reaction about the alarm and move further, then the boat will enter into the restricted zone, the alarm continues to beep as before, and once it touches the restricted zone, the boat engine gets off by the control of fuel supply to engine.These positions are sent periodically to the computer server present in the shore using IOT modem.Thus position of the boat can be monitored from the shore.Also orientation of the boat is estimated using accelerometer sensor and it fed into the IOT modem where these data’s are sent to server wirelessly.