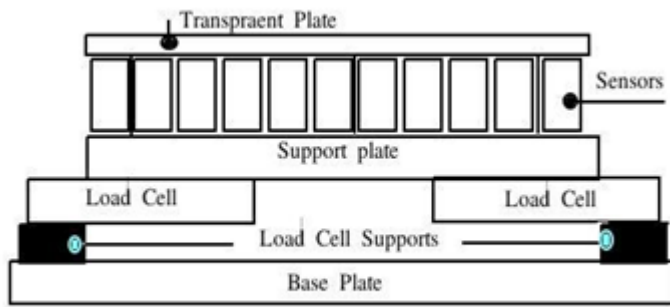








The diagram representing the structure is as given below:



The top layer is a transparent plate to protect the sensors from getting damaged. The plate has to be transparent in order to allow the light to pass through it.

The second layer consists of optacouplar units. The black dots represents a IR detecting sensor and the blank dots represents an IR LED. The third layer is a support plate made of hard metal. The support plate is followed by a set of load cells. The support plate should only partially cover the load cells. The fourth layer is the load cell support. The load cell should be only place partially on it. The last layer is the base plate. The base plate supports the land mine.

**XI. CONCLUSION**

As the famous military quote states “It’s not the Lions roar that signals the danger, it’s their silence.”, In a battlefield that is more deadly than the wild even a small information such as the cause of the land mine blast, time, temperature, pressure, etc at the time of blast can save lives of many soldiers protecting us.

**XII. DECLARATION**

All authors have disclosed no conflicts.

**XII.REFERENCES**

- 1) [https://en.wikipedia.org/wiki/Long-range\\_Wi-Fi](https://en.wikipedia.org/wiki/Long-range_Wi-Fi)
- 2) <https://en.wikipedia.org/wiki/I%C2%B2C>
- 3) [https://www.espressif.com/sites/default/files/documentation/0a-esp8266ex\\_datasheet\\_en.pdf](https://www.espressif.com/sites/default/files/documentation/0a-esp8266ex_datasheet_en.pdf)
- 4) <https://doc.qt.io/qt-5.10/qtsensors-index.html>
- 5) <https://www.mouser.com/ds/2/239/H1550-01new-1141667.pdf>
- 6) <https://www.midebien.com/LiteratureRetrieve.aspx?ID=189720>