

Figure 4: Output of Astable Multivibrator

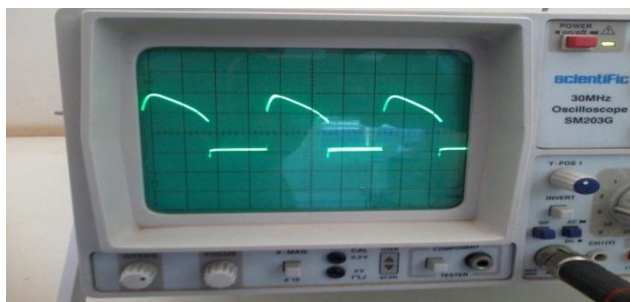


Figure 5: Output across power MOSFET

## 6. Conclusion

From this project we are able to design inverter of capacity 500W to supply load of 200W lighting and 300W fan load using solar energy. Hence after carrying out this project, we conclude that using solar energy with proper battery and inverter circuit one can easily, continuously supply the lighting and fan loads.

## 7. Future Work

This project can be extended to supply entire light and fan loads of the dept. and college. Can be extended to supply other types of loads such as Computer, Projector, laptops, Solder gun etc. Can be effectively implemented in each and every house in rural areas.

## References

- [1] Nonconventional energy sources by G.D.Rai
- [2] Analog electronic circuits by Devid Bell.
- [3] Modern Power electronics by Chitthod.
- [4] Butti, Ken; Perlin, John (1981). A Golden Thread (2500 Years of Solar Architecture and Technology). Van Nostrand Reinhold.
- [5] Carr, Donald E. (1976). Energy & the Earth Machine. W. W. Norton & Company.
- [6] Halacy, Daniel (1973). The Coming Age of Solar Energy. Harper and Row.
- [7] Martin, Christopher L.; Goswami, D. Yogi (2005). Solar Energy Pocket Reference. International Solar Energy Society.
- [8] Mills, David (2004). "Advances in solar thermal electricity technology".
- [9] Perlin, John (1999). From Space to Earth (The Story of Solar Electricity). Harvard University Press.