

9. List of Tools used for prototyping

| S.No | Component Name | Qty |
|------|-----------------------------------|----------|
| 1. | IC SG3525A | 1 |
| 2. | IRF 840 MOSFET | 2 |
| 3. | 24SWG Copper wire | 20metres |
| 4. | EC28 Ferrite Core Transformer 12V | 1 |
| 5. | Printed PCB | 1 |
| 6. | 100nF Capacitor | 2 |
| 7. | 10nF Capacitor | 2 |
| 8. | 1nF Capacitor | 1 |
| 9. | 1000uF Capacitor | 2 |
| 10. | 4700uF Capacitor | 1 |
| 11. | 220uF Capacitor | 1 |
| 12. | 1uF Capacitor | 1 |
| 13. | 12K Variable Resistors | 1 |
| 14. | 2.2k resistor | 1 |
| 15. | 470ohm resistor | 2 |
| 16. | 1K resistor | 5 |
| 17. | 12K resistor | 2 |
| 18. | 5Amps Bridge Rectifier | 1 |
| 19. | 1N5408 Diode | 4 |
| 20. | 1N4007 Diode | 5 |
| 21. | 4.7nF Capacitor | 2 |
| 22. | Power Supply Cable | 1 |
| 23. | 12V DC Socket | 1 |
| 24. | 16-Pin IC Base | 1 |
| 25. | On-Off Switch | 1 |
| 26. | 5mm Red LEDs | 5 |
| 27. | 0.5A Fuse | 1 |
| 28. | PCB Mount Fuse Holder | 1 |
| 29. | BA159 Diode | 4 |
| 30. | Power supply Rectifier PCB | 1 |
| 31. | 100uF 50V Capacitor | 1 |
| 32. | TO-220 Heat Sink | 2 |
| 33. | Mounting Screws | 12 |
| 34. | Spacers | 12 |