

**Online Vendors: 1.<https://hacktronics.co.in> 2.<https://robokits.co.in> 3.<https://www.robomart.com>**

| S.no   | Heading           | Item                            | Purpose                                | Qty    | Tentative Price/unit (Rs) | Tentative Price x Quantity | Actual Price |
|--|-------------------|---------------------------------|--|--------|---------------------------|----------------------------|--------------|
| 1  | Microcontroller   | Arduino Mega 2560               | Controller Board                       | 1      | 800                       | 800                        |              |
| 2  | Modules           | Esp8266-01 (Wi-Fi)              | Server Comm.                           | 1      | 175                       | 175                        |              |
| 3  |                   | HC-05 (Bluetooth)               | Debugging                              | 1      | 275                       | 275                        |              |
| 4  |                   | DS3231 (RTC)                    | Date & Time Stamp                      | 1      | 200                       | 200                        |              |
| 5  | Sensors           | DHT22                           | Temp & Humidity Sensor                 | 1      | 250                       | 250                        |              |
| 6  |                   | BMP180                          | Atmospheric Pressure                   | 1      | 200                       | 200                        |              |
| 7  |                   | AH3144E (Hall Effect Sensor)    | Wind Vane and Rain gauge               | 10     | 30                        | 300                        |              |
| 8  |                   | IR Sensor Grove Coupler         | Wind Speed                             | 1      | 80                        | 80                         |              |
| 9  |                   | BH1750                          | Light Intensity                        | 1      | 200                       | 200                        |              |
| 10   | Power Supply      | Adapter 9v, 1A                  | Power supply for the device            | 1      | 120                       | 120                        |              |
| 11   |                   | Wire                            |  | 15 m   | 10                        | 150                        |              |
| 12   | Basic Electronics | PCB, Connectors, Components etc | Arduino Mega Shield for all Components | 1 Set  | 300                       | 300                        |              |
| 13   | 3D Printing       | 3D Printer filament             | 3D printing Structures and Bodies      | 0.5 Kg | 600                       | 600                        |              |
| 14   | Mechanical Stuff  | Ball Bearings                   | Wind Vane & Anemometer Mechanism       | 3      | 40                        | 120                        |              |
| 15   |                   | PVC Pipes and Fittings          | Weather Station Holder & Structure     | 1 Set  | 400                       | 400                        |              |
| 16   | Misc.             | Solder and Glue                 | Soldering & Gluing parts               | 1 Set  | 200                       | 200                        |              |
| 17   |                   | Other Misc.                     | Misc.                                  | 1 Set  | 200                       | 200                        |              |
| Total Tentative Cost   |                   |                                 |  |        |                           | <b>4570</b>                |              |
| <b>Note: Most of the electronics are available on <a href="https://hacktronics.co.in">https://hacktronics.co.in</a>.</b> |                   |                                 |  |        |                           |                            |              |