

**Team BOM form - SIH2025 Hardware**

**Team Name:** ByteLords

**Team Leader:** G Rohit Sudarsen

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**Institute Name:** R M K Engineering College

Below are the lists of items/component requested by teams:

| Item Name   | HSN/Item Code/No. | Quantity needed | Estimated Cost(Approx) (Rs.) | Why is this component required?                 |
|---|-------------------|-----------------|------------------------------|---|
| Quectel 4G/GSM Module   | EC200U            | 1               | 2419                         | Sends SOS data from the gateway to the internet |
| MICROCHIP-CryptoAuthentication IC                                   | ATECC608A-SSHDA-B | 1               | 507                          | For Data Encryption                             |
| SmartElex u-blox GNSS   | MAX-M10S          | 1               | 2009                         | For GPS Acquiring Location                      |
| 9-axisGyro Accelerator Magnetometer Sensor Module                   | MPU9250           | 1               | 407                          | For fall detection                              |
| Temperature Humidity Pressure and Gas Sensor                        | BME688            | 1               | 2801                         | For Environmental Detection                     |
| LoRaE5 Mini   | STM32WLE5JC       | 3               | 6801                         | For Hop Network Creation                        |
| 698 – 960 MHz & 1710 – 2690 MHz 6/7 dBi Gain Magnetic Mount Antenna |                   | 1               | 139                          | For Receiving Network                           |
| 860–928 MHz 2.2 dBi rubber-duck                                     |                   | 3               | 653                          | For Sending Data                                |
| Grand Total (Rs.)   |                   |                 | 17321                        |   |

Any comments by teams (**if any**) :

Any comments by concerned by the nodal center:

(Not to be filled by the students, will be filled by the authorities)

  
Team Leader Signature