**THAPAR INSTITUTE OF ENGINEERING &TECHNOLOGY, PATIALA**

**EXPERIENTIAL LEARNING CENTRE**

Coordinator - ELC Date: \_\_\_\_\_\_\_\_\_\_\_

Kindly allows the Purchase of the following item listed below out of Imprest for Project titled:

**A Peer-to-Peer Smart Agriculture**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Material Required** | **Quantity** | **Available** | **Estimated Cost**  **(in Rs.)** | **Purpose** |
| 1 | Raspberry Pi 4 Model B (4GB) kit  With SD Card (32 GB) | 1 | **No** | ₹7300 | Mini computer |
| 2 | Raspberry Pi Camera Module v2 | 1 | **No** | ₹2000 | To capture image of dataset |
| 3 | DHT22 Sensor | 1 | Yes | **---** | Measures temp & humidity |
| 4 | Rain Sensor | 1 | **No** | ₹150 | Detect rainfall patterns |
| 5 | Buzzer + LED | 1 | Yes | **---** | For local visual/audio alerts |
| 6 | Jumper Wire Pack | 1 | Yes | **---** | For connection |
| 7 | Resistors (10kΩ and 330Ω) | 2 Each | **No** | ₹50 | For dividing voltage |
| 8 | Soil moisture sensor | 1 | **No** | ₹100 | For detecting moisture |
| 9 | BreadBoard | 2 | Yes | **---** | For Connection |
| 10 | I2C module | 1 | Yes | **---** | For display of the output |
| 11 | I2C Display | 1 | Yes | **---** |  |
|  | **TOTAL** |  |  | **₹9,600** |  |

Kindly also sanction fund of Rs …………………… (Rupees in words …………….……………………………….) in the name of ……………………………………………………………… Employee code/ Reg no …………………………….

|  |  |  |
| --- | --- | --- |
|  | Recommended |  |
| Project Faculty in-charge | ELC-Department, Coordinator | Head of Department |

Sanctioned

Coordinator, ELC