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 | Soil moisture | 1 | No | 200 | For checking the amount of moisture in soil |
| 2 | Dht 22 | 1 | Yes | -- | Measuring ambient temp and humidity |
| 3 | NPK sensor | 1 | No | 4000 | To measure npk in soil |
| 4 | Pi cam | 1 | No | 400 | To capture image of dataset |
| 5 | ESP32 | 1 | Yes | -- | Provide wifi and connectivity |
| 6 | Raspberry pi kit | 1 | No | 7300 | Mini computer |
| 7 | I2C module | 2 | Yes | -- | To simplify connectivity lcd display |
| 8 | I2C display | 2 | Yes | -- | To visually present info. From a microcontroller |
| 9 | Breadboard | 2 | Yes | -- | For connection |
| 10 | Jumper wires | 3 set | Yes | -- | For connection |
| 11 | Resistors | 5 | No | 50 | Regulate the flow of current in the circuit |
| 12 | RS485 module | 1 | No | 50 | Support communication b/w multiple nodes |
|  | **TOTAL** |  |  | **12,000** |  |

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 |