Date: 18-02-2020

To,

SSIP Convener

SSIP Cell, ADIT

**Subject: Requesting permission to use/purchase components of FAB Lab for SSIP Hackathon 2019-20**

Respected Sir,

We, the students of 2nd Year (with Team id: SGH001547), have participated in SSIP Hackathon 2019-20 and our team has been selected for Regional round of it. Our problem statement is to build a “HVAC system” based on cloud and AI, for which we require components from the FAB lab of SSIP Cell, ADIT which are mentioned in *Table-I*. It is our kind request to grant us permission to use above mentioned component.

Additionally, we request you to permit us to purchase the below mentioned components which are not available with the FAB lab and are needed for the project. The details regarding the components to be purchased are as mentioned in *Table-II*.

***1. Table-I: Components required from FAB Lab***

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Component Name** | **Quantity** |
| 1. | Digital Thermometer | 01 |
| 2. | Arduino Mega 2560 Board With Usb Cable | 01 |
| 3. | GM320 Non-Contact Laser LCD Display Digital Infrared(IR) Thermometer Temperature Meter Gun -50°C to 330°C | 01 |

***2. Table-II: Components to be purchased***

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Component Name** | **Quantity** | **Approx. Price (in INR)** |
| 1 | Platinum RTD Sensor - PT100 - 3 Wire 1 meter long | 01 | 1300/- |
| 2 | BMP180 Barometric Pressure Sensor Module | 01 | 200/- |
| 3 | HS1101 HS1101LF - Capacitive Humidity Sensor | 01 | 200/- |
| 4 | Combustible gas + CO Gas Sensor MQ9 | 01 | 500/- |
| 5 | Liquid Flow Sensor | 01 | 700/- |
| 6 | SHT31-D Temperature & Humidity Sensor | 01 | 1500/- |
| **Total** | | **4400/-** | |

Kindly permit for the aforementioned entreaties.

Thanking you.

Yours Faithfully,

Meet Thakor (Team Leader)

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|  |  |  |
| --- | --- | --- |
| Forwarded Through,  **Head, IT** | **Prof. Nayan Mali**  **(mentor)** | **Prof. Jitiksha Patel** |