| **Category** | **Sensor/Components Used** |  | | **Dynamic Parameters** | | | | **Static**  **Parameters** | **Locations deployed** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **Names** | | **Units** | **Resolution** | **Relative Error/Accuracy** |  |  |
| **Water Supply/**  **quality** | 1. **DfRobot pH sensor pro: Measures pH of the solution** 2. **Turbidity sensor SKU:SEN0189: Measures Total suspended solids(TSS)** 3. **TDS Sensor SKU: SEN0244: Measures Total dissolved solids (TDS)** 4. **HC-SR04**   **Ultrasonic**  **sensor**   1. **Waterflow**   **Sensors**   1. **Waterproof DS18B20 Sensor** 2. **Timestamp** | 1. **pH value (0-7 -> Acidic ,7-14pH->alkaline)** 2. **Total suspended solids(TSS)(organic and inorganic)** 3. **Total dissolved solids (TDS )(principally ca,Mg,k,Na,cl-,sulphates)** 4. **Depth** 5. **Water flow rate** 6. **Temperature** 7. **Timestamp** | 1. **pH** 2. **Tss** 3. **Tds** 4. **depth** 5. **flowrate** 6. **Temp** | | 1. **\_** 2. **NTU** 3. **ppm** 4. **cm** 5. **L/hr** 6. ℃ | 1. **0.1** 2. **1NTU** 3. **0ppm** 4. **0.1cm** 5. **0.1lit/min** 6. **-55** ℃ | 1. **±0.1@250C for signal conversion board**   **±0.5 for pH probe.**  **c)** **± 10% F.S. (25 degree Celsius)**  **d)3mm**  **e)\*\***  **f)** **±0.5°C** | 1. **Device ID** 2. **Device Names** 3. **Device Status** 4. **Latitude &Longitude information** 5. **Data descriptors** 6. **Node creation time** | **TDS**  **● Vindhya - 5**  **● Nilgiri - 1**  **● \* - 1**  **● Anand Nivas (Faculty &amp; staff quarters) - 1**  **● Budha Nivas (Faculty &amp; staff quarters) - 1**  **● Palash Nivas (Boys Hostel) - 2**  **● \*\* - 2**  **● New women&#39;s Hostel-&#39;A&#39;, &#39;B&#39; &amp; &#39;C&#39; blocks - 2**  **● Bakul Nivas (Boys Hostel) - 2**  **● Pump room-1 (at Main gate) – 1**  **pH, Turbidity, Water level**  **● Anand Nivas (Faculty &amp; staff quarters) - 1**  **● Palash Nivas (Boys Hostel) - 1**  **● Parijath Nivas (Girls Hostel) - 1**  **● Bakul Nivas (Boys Hostel) – 1**  **Water Flow**  **● Vindhya - 1**  **Nivas (Guest House) - 1**  **● Old Faculty Quarters - 1**  **● Pump room-1 (at Main gate) - 1**  **● Pump room-2 (at Sreenu canteen)-1**  **● Pump room-3 (at Bakul Nivas) - 1**  **● From Himalaya &amp; Parijath to guest house - 1**  **● From Himalaya &amp; Parijath to OFSQ - 1**  **● to FSQ - 1**  **● to vindhya - 1**  **● to Himalaya - 1**  **● to FSQ -1**  **● to pumphouse2 near vindhya canteen - 1**  **● to pumphouse4 near bakul Nivas - 1** |