

## DEVELOP THE WEB APPLICATION USING NODE-RED

TEAM ID  
PROJECT NAME

PNT2022TMID31175  
SMART SOLUTION FOR RAILWAYS

Using Node-RED:

The screenshot shows the Node-RED interface and a corresponding web application interface.

**Node-RED Flow:**

- Flow 1:** An "IBM IoT" node (with "connected" status) is connected to a "msg payload" node. This flow also connects to a "temperature Node" and a "humidity Node".
- Flow 2:** A "humidity Node" is connected to a "Humidity" node.
- Flow 3:** A "[get] /sensor" node is connected to an "httpfunctionnode", which then connects to an "http" node.
- Flow 4:** A "Temperature" node is connected to the "Humidity" node.
- Common Nodes:** The sidebar lists various common nodes including Inject, debug, complete, catch, status, link in, link call, link out, and comment.
- Function Nodes:** The sidebar lists function nodes including function, switch, change, range, template, delay, trigger, filter, and OpenWhisk.

**Web Application Interface:**

The web application has a header titled "weather monitoring". It displays two gauges:

- Humidity:** The gauge shows a value of 14%.
- Temperature:** The gauge shows a value of 84 °C.

Below the gauges is a control panel with two buttons:  
LIGHT ON (top button)  
LIGHT OFF (bottom button)