**SRI VENKATESWARAA COLLEGE OF TECHNOLOGY**

**Department Of Computer Science And Engineering**

**IBM NALAIYA THIRAN**

**IDEATION PROCESS**

**TITLE :** Smart solution for railways- IoT Enabled Smart solution for railways

**DOMAIN NAME :** Internet of Things

**LEADER NAME :** MOHAMMED SAMEER

**TEAM MEMBER NAME:** SARAVANAN.D

SAKTHI KUMAR.R

SANTHOSH.S

SNEKA CATHERIN.V

**MENTOR NAME :** PREETHI C

**IDEATION PROCESS**

**Smart solution for railways-IoT Enabled Smart solution railways**

**1.Irrigating Plants on a scheduled basis**

**2.Irrigating plants by sensing the temperature of location**

**3.Irrigating plants. based on Soil moisture level**

**4.Irrigating plants. based on Soil moisture level**

**Moisture level Based**

**We will use Capacitive Soil Moisture Sensor to measure moisture content present in the soil. Similarly to measure Air Temperature and Humidity, we prefer DHT11 Humidity Temperature Sensor. Using a 5V Power relay we will control the Water Pump. Whenever the sensor detects a low quantity of moisture in the soil, the motor turns on automatically. Hence, will automatically irrigate the field. Once the soil becomes wet, the motor turns off. You can monitor all this happening remotely via a Server online from any part of the world.**

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**Irrigating Plants on a scheduled basis**

**Irrigating plants by sensing the temperature of location** Irrigating plants based on water availability

Irrigating plants. based on Soil moisture level