

**SRK INSTITUTE OF TECHNOLOGY**  
Enikepadu, Vijayawada 521108  
Approved by AICTE, Affiliated to JNTUK, Kakinada  
(ISO 9001:2015 Certified Institution)

### 7.1.2 Sensor based energy conservation system-report- RFID Sensor

#### (a) Hardware of the implemented system



#### (b) RFID sensor Tags for ON/OFF

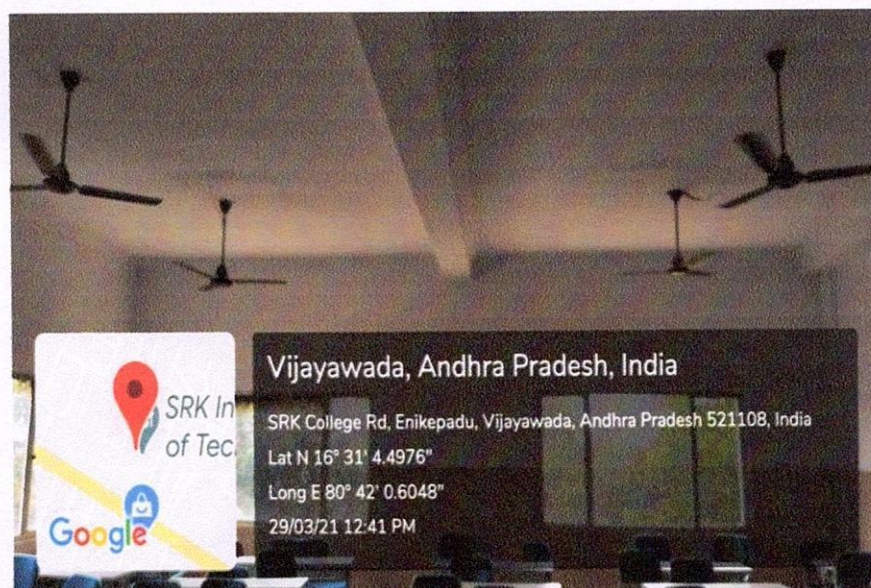
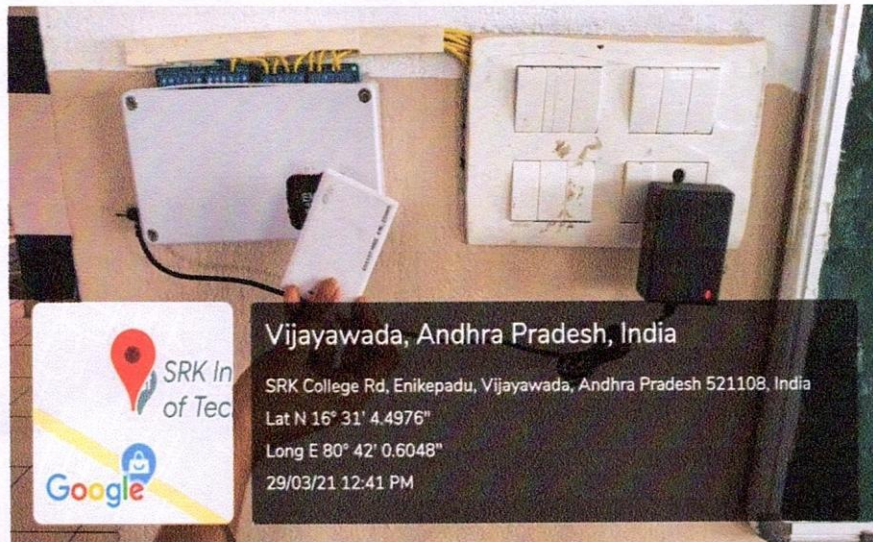


PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108



**SRK INSTITUTE OF TECHNOLOGY**  
Enikepadu, Vijayawada 521108  
Approved by AICTE, Affiliated to JNTUK, Kakinada  
(ISO 9001:2015 Certified Institution)

(c) Upon scanning the RFID sensor tag which initiates the ON operation, then electrical devices are turned ON

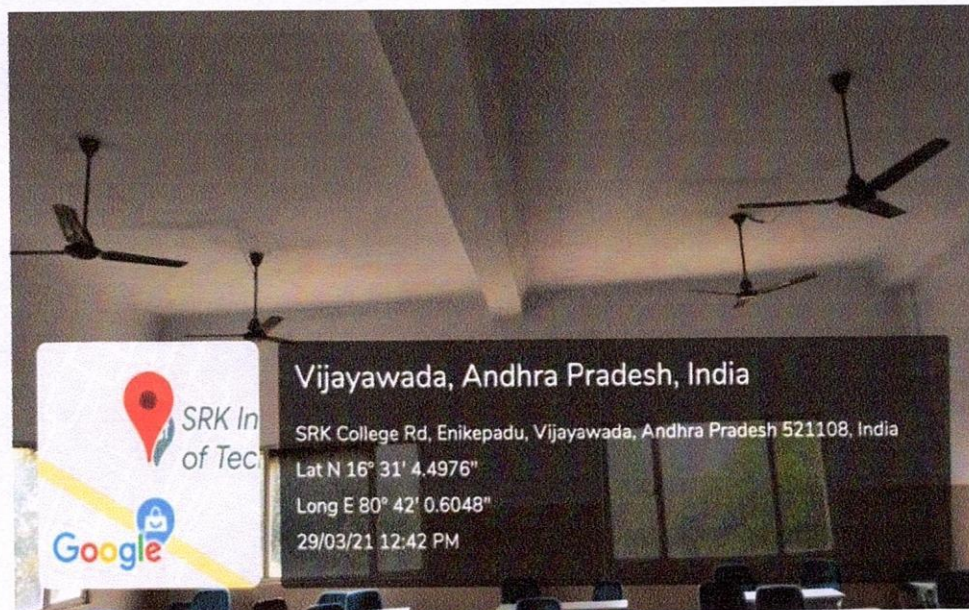


PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

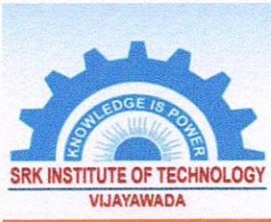


**SRK INSTITUTE OF TECHNOLOGY**  
**Enikepadu, Vijayawada 521108**  
**Approved by AICTE, Affiliated to JNTUK, Kakinada**  
**(ISO 9001:2015 Certified Institution)**

**(d) Upon scanning the RFID sensor tag which initiates the OFF operation, then electrical devices are turned OFF**



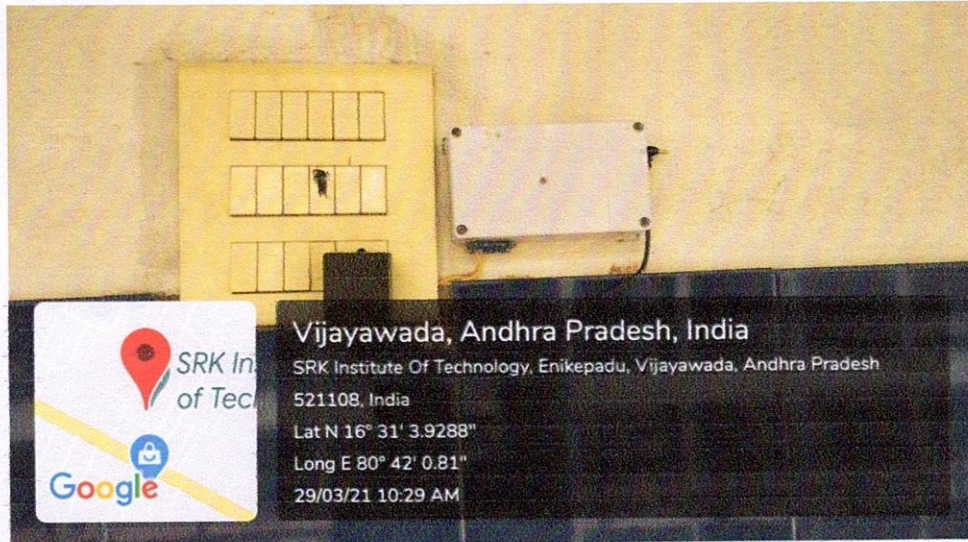
*[Handwritten Signature]*  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108**



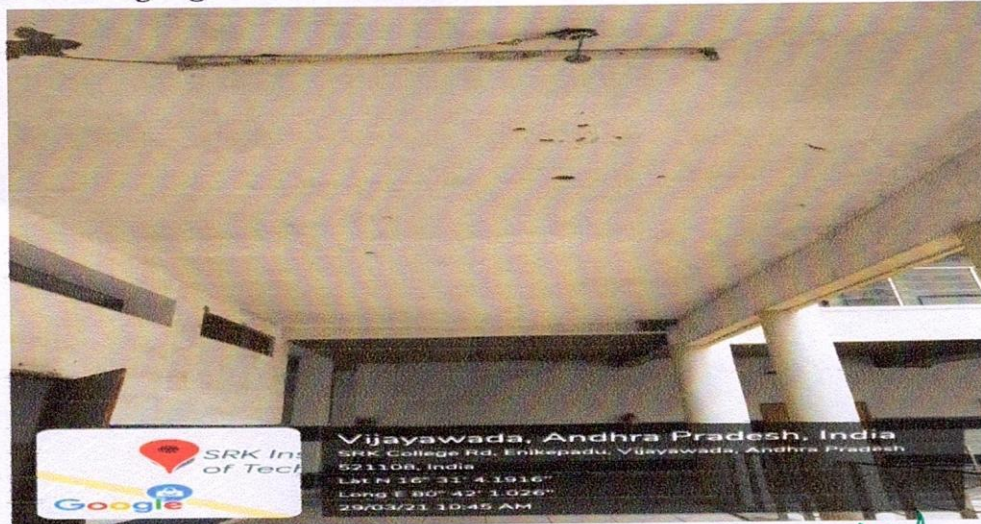
**SRK INSTITUTE OF TECHNOLOGY**  
Enikepadu, Vijayawada 521108  
Approved by AICTE, Affiliated to JNTUK, Kakinada  
(ISO 9001:2015 Certified Institution)

### 7.1.2 Sensor based energy conservation system-report-LDR Sensor

#### (a) Hardware of the implemented system



#### (b) In the morning Lights are turned OFF

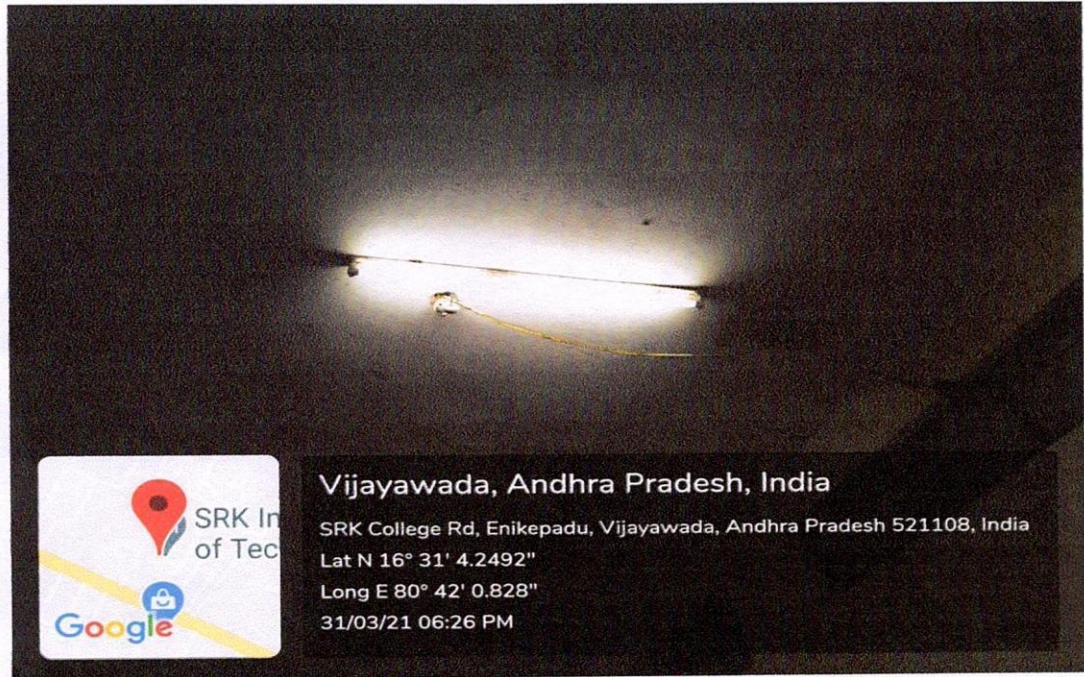



PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

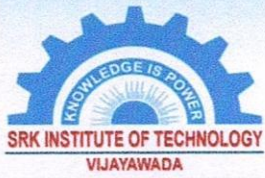


**SRK INSTITUTE OF TECHNOLOGY**  
**Enikepadu, Vijayawada 521108**  
**Approved by AICTE, Affiliated to JNTUK, Kakinada**  
**(ISO 9001:2015 Certified Institution)**

**(c) In the evening Lights are turned ON**



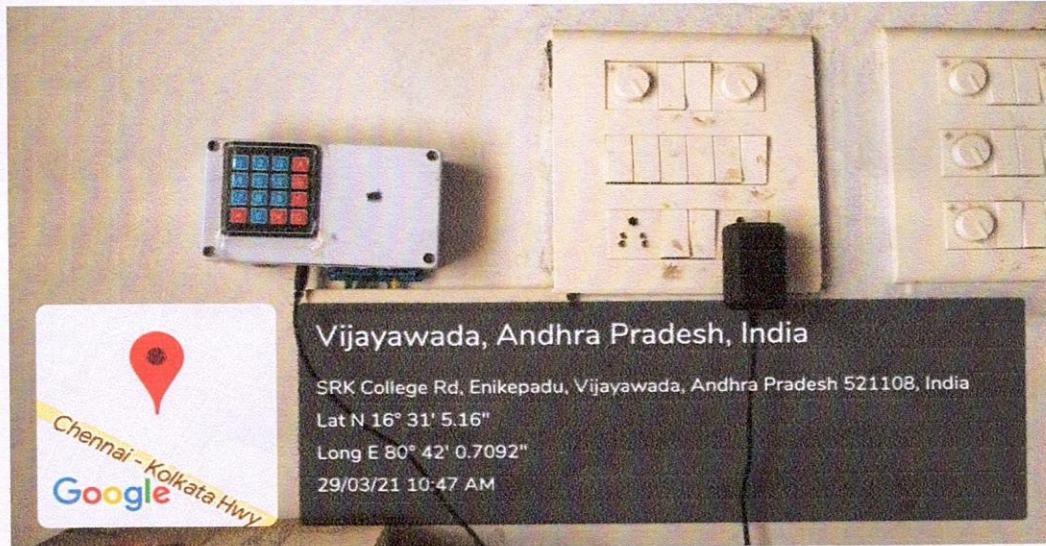
  
**PRINCIPAL**  
**SRK Institute of Technology**  
**ENIKEPADU, VIJAYAWADA-521 108**



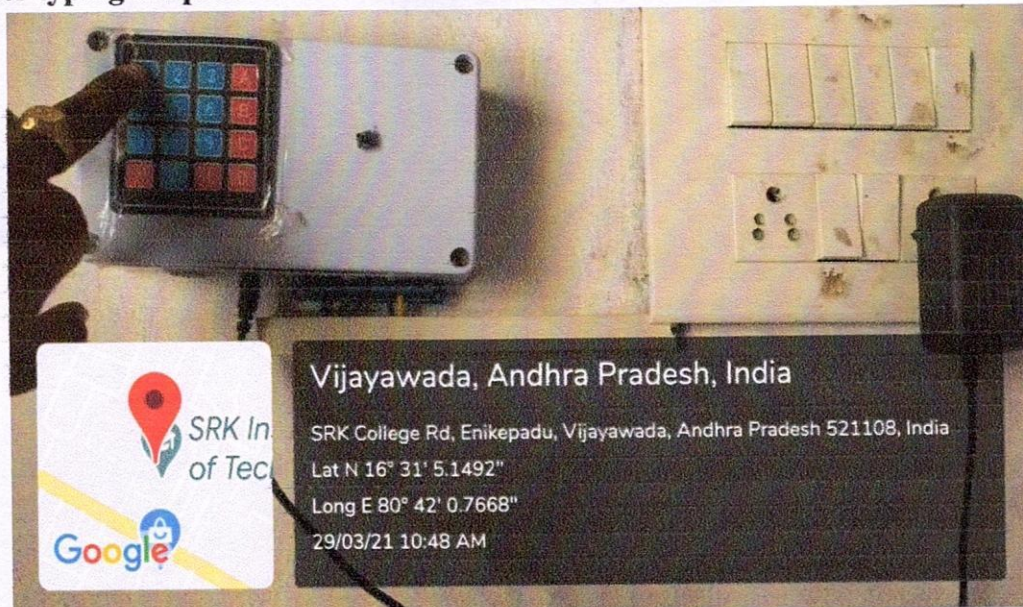
**SRK INSTITUTE OF TECHNOLOGY**  
Enikepadu, Vijayawada 521108  
Approved by AICTE, Affiliated to JNTUK, Kakinada  
(ISO 9001:2015 Certified Institution)

### 7.1.2 Sensor based energy conservation system- ultra sonic sensor

#### (a) Hardware of the implemented system



#### (b) User typing the password to enable the ultrasonic sensor



*[Handwritten Signature]*

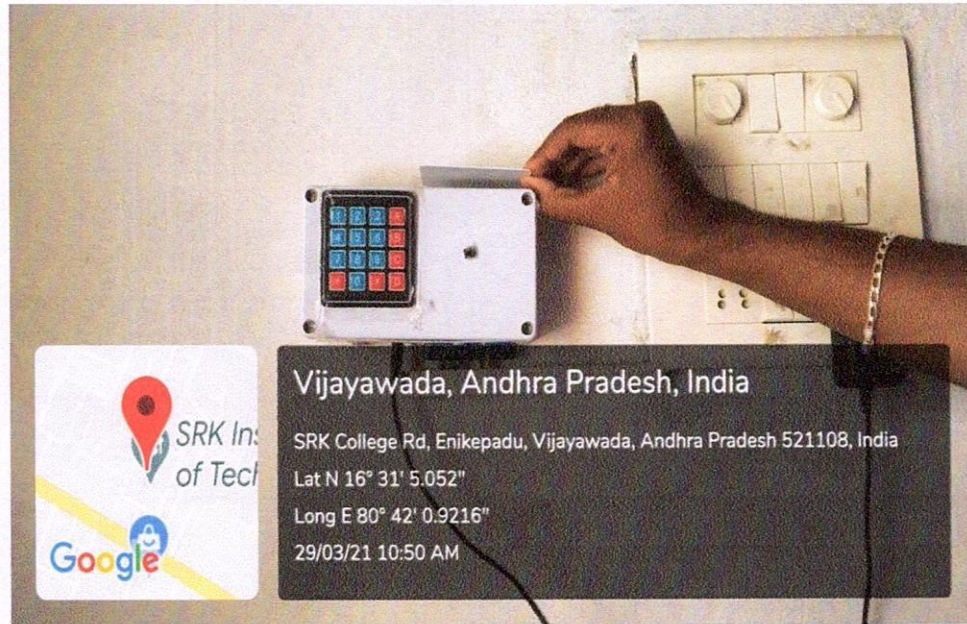
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108

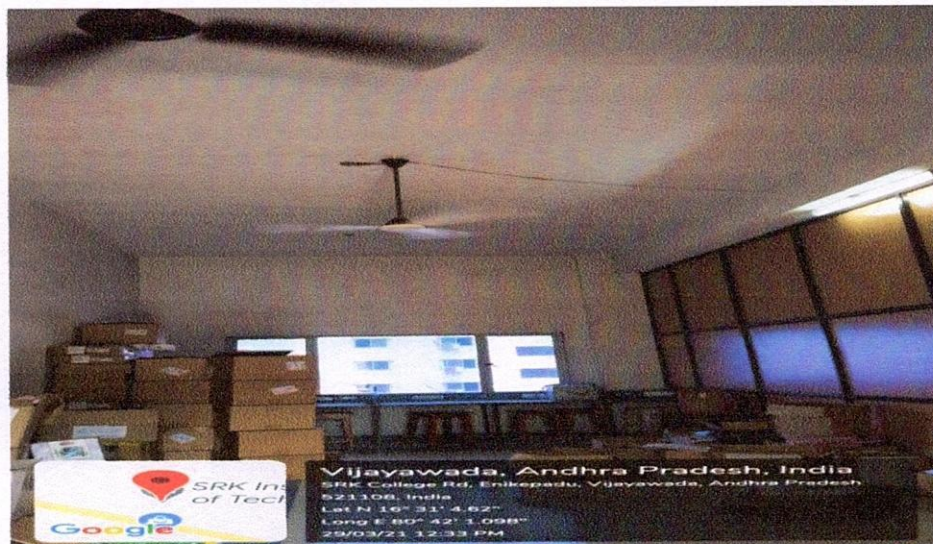


**SRK INSTITUTE OF TECHNOLOGY**  
Enikepadu, Vijayawada 521108  
Approved by AICTE, Affiliated to JNTUK, Kakinada  
(ISO 9001:2015 Certified Institution)

**(c) User placing an obstacle before the ultrasonic sensor**



**(d) Ultrasonic sensor upon detecting the obstacle turns ON fans and Light**



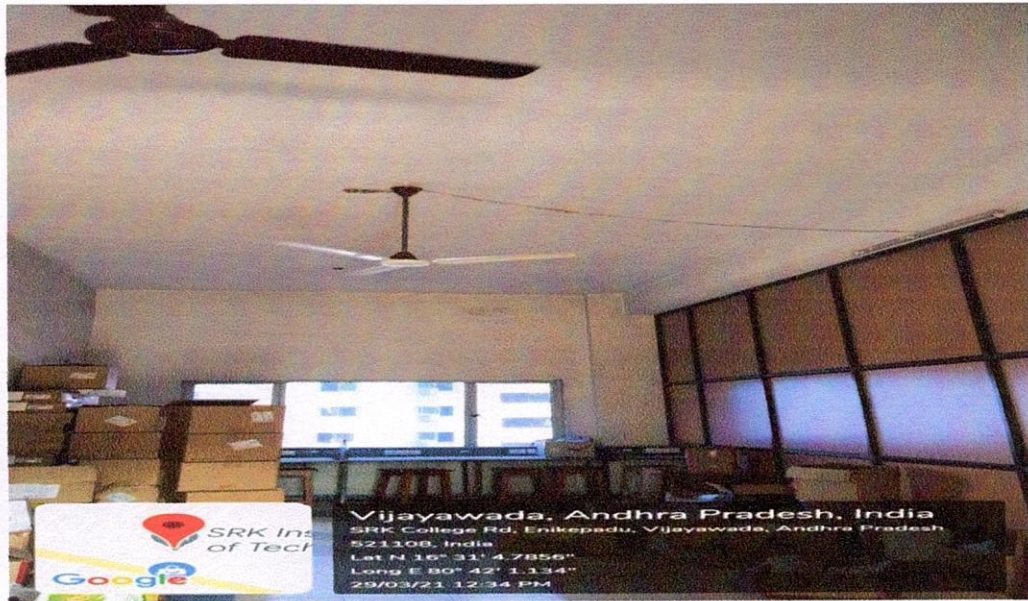
PRINCIPAL

SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108



**SRK INSTITUTE OF TECHNOLOGY**  
Enikepadu, Vijayawada 521108  
Approved by AICTE, Affiliated to JNTUK, Kakinada  
(ISO 9001:2015 Certified Institution)

(e) Ultrasonic sensor does not detect the obstacle, it turns OFF fans and Light



*[Handwritten Signature]*  
PRINCIPAL  
SRK Institute of Technology  
ENIKEPADU, VIJAYAWADA-521 108