

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/11/2024

(21) Application No.202441091902 A

(43) Publication Date : 09/05/2025

(54) Title of the invention : A SMART SAFETY HELMET FOR EMPLOYEE DETECTION AND ENVIRONMENTAL MONITORING

(51) International classification :A42B0003040000, H04N0019500000, G08B0021020000,  
H04W0004380000, H04W0004700000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to : NA  
Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
1)GMR INSTITUTE OF TECHNOLOGY  
Address of Applicant :GMR Nagar, Rajam, Andhra Pradesh Rajam -----  
Name of Applicant : NA  
Address of Applicant : NA  
(72)Name of Inventor :  
1)LAGUDU VENKATA SURESH KUMAR  
Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, GMR Institute of Technology, GMR Nagar, Rajam, Andhra Pradesh- 532127 Rajam -----  
2)TUMMALA S L V AYYARAO  
Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, GMR Institute of Technology, GMR Nagar, Rajam, Andhra Pradesh- 532127 Rajam -----

(57) Abstract :

ABSTRACT A SMART SAFETY HELMET FOR EMPLOYEE DETECTION AND ENVIRONMENTAL MONITORING The present invention relates to the smart safety helmet for employee detection and environmental monitoring using raspberry pi, gas sensors, gps, and gsm modules integrated with IoT. This is a smart safety helmet designed for employee detection and environmental monitoring in industrial settings, with a strong emphasis on enhancing occupational safety and preventing accidents. To be Published with Figures 1 and 2

No. of Pages : 28 No. of Claims : 4