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(71)Name of Applicant :  
**1)CMR COLLEGE OF ENGINEERING & TECHNOLOGY**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
Name of Applicant : NA  
Address of Applicant : NA

(72)Name of Inventor :  
**1)B.SURESH RAM**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**2)K.SATHISH**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**3)S.SURESH**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**4)B.KONDALU**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**5)P.TULASI**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**6)A.V.GNANESWAR REDDY**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**7)A.ANIRUDH**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**8)T.VARUN**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**9)A.HIMAJA**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**10)N.VIJAYA LAKSHMI**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**11)ABDUL SUBANI SHAIK**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----  
**12)C R Sruthi Reddy**  
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,  
501401. Hyderabad -----

(57) Abstract :  
ADAPTIVE ENVIRONMENTAL CONTROL SYSTEM FOR WINDOWS: SAFEGUARDING ASSETS IN DIVERSE OPERATIONAL SETTINGS ABSTRACT The development of a smart window system addresses the vulnerability of laboratory equipment to external elements like rain and high temperatures, extending its applicability to storage facilities and industries. By automatically closing windows, the system safeguards against water damage during rainy seasons and regulates sunlight exposure in summer, mitigating potential harm to assets. Notably, its utility extends beyond laboratories to storage facilities, where improper window closure can lead to crop yield loss due to water damage. In industrial settings, the technology protects costly machinery from adverse weather conditions. The proposed solution introduces an advanced window system that adjusts openings based on surrounding temperature, rain, and smoke conditions, aiming to create a safe and energy-efficient environment. This innovation presents a proactive measure to preserve assets and prevent potential harm across various operational domains, emphasizing its versatility and practicality in diverse settings.

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