

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311033495 A

(19) INDIA

(22) Date of filing of Application :12/05/2023

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF SUSTAINABLE ENVIRONMENT BY UTILIZING ENERGY EFFICIENT MATERIALS

<p>(51) International classification :B01D 530400, B01D 536200, G06Q 203200, G07F 130200, H04W 520200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Sachi Singh Address of Applicant :Assistant Professor,IMS Engineering College, Ghaziabad, NH-09, Adhyatmik Nagar, Near Dasna, Ghaziabad, Uttar Pradesh, Pin Code: 201015 -----</p> <p>2)Dr. Amit Parashar 3)Dr. Surpiya Pal 4)Dr. Kaushik Shandilya 5)Dr. Chhaya Agarwal 6)Mr. Pradeep Bhati 7)Ashish Kumar 8)Dr. Soma Das 9)Humaib Nasir 10)Muksit Ahmad Qazi 11)Dr. Neha Deepak Saxena 12)Mr. Mohit Gupta Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sachi Singh Address of Applicant :Assistant Professor,IMS Engineering College, Ghaziabad, NH-09, Adhyatmik Nagar, Near Dasna, Ghaziabad, Uttar Pradesh, Pin Code: 201015 -----</p> <p>2)Dr. Amit Parashar Address of Applicant :Associate Professor, GL Bajaj Group of Institutions, Mathura Affiliated to Dr A P J Abdul Kalam Technical University, Lucknow, Uttar Pradesh, Pin Code: 281406 -----</p> <p>3)Dr. Surpiya Pal Address of Applicant :Temporary faculty, NIT Raipur, Great Eastern Rd, Amanaka, Raipur, Chhattisgarh, Pin Code: 492010 -----</p> <p>4)Dr. Kaushik Shandilya Address of Applicant :Researcher, USA -----</p> <p>5)Dr. Chhaya Agarwal Address of Applicant :Assistant Professor, Department of Biotechnology, Noida Institute of Engineering & Technology, Plot No 19 Knowledge Park II, Greater Noida, Uttar Pradesh, Pin Code: 201310 -----</p> <p>--</p> <p>6)Mr. Pradeep Bhati Address of Applicant :Assistant professor, IIMT engineering college, Civil Engineering Department, Meerut, Uttar Pradesh, Pin Code: 201310 -----</p> <p>7)Ashish Kumar Address of Applicant :Assistant Professor (Civil Engineering), IIMT Engineering College, Meerut, Uttar Pradesh, Pin Code: 201310 -----</p> <p>8)Dr. Soma Das Address of Applicant :Assistant Professor, IMS Engineering College, Ghaziabad, Uttar Pradesh, Pin Code: 201015 -----</p> <p>9)Humaib Nasir Address of Applicant :Assistant Professor, School of Civil Engineering, Lovely Professional University, Phagwara, Punjab, Pin Code: 144402 -----</p> <p>10)Muksit Ahmad Qazi Address of Applicant :M. Tech Scholar, LPU, Phagwara, Punjab, Pin Code: 144402 -----</p> <p>11)Dr. Neha Deepak Saxena Address of Applicant :Assistant professor, JSS Academy of Technical education, C-20/1, sector 62, Noida, Uttar Pradesh, Pin Code: 201309 -----</p> <p>12)Mr. Mohit Gupta Address of Applicant :Assistant Professor, Raj Kumar Goel Institute of Technology, Ghaziabad, Pin Code: 201003 -----</p>
--	---

(57) Abstract :
The present invention relates to the to the field of Environmental Science and aims to develop sustainable environments by utilizing energy-efficient materials. The invention involves a method for developing sustainable concrete that reduces carbon emissions and promotes sustainable building practices. It includes selecting sustainable raw materials based on specific sustainability criteria, testing the raw materials in laboratories, and mixing them in specific proportions to maximize energy efficiency and minimize environmental impact during the production of sustainable concrete. The use of electric-powered equipment, optimization of mix proportions, and recycled aggregates promote a circular economy and lead to improved building performance, increased energy efficiency, and reduced environmental impact.

No. of Pages : 8 No. of Claims : 7