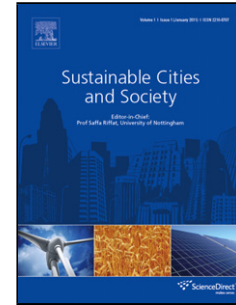


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## **Sustainability Assessment of Brick Work for Low-Cost Housing: A Comparison between waste based bricks and burnt clay Bricks**

Saurabh N. Joglekar<sup>1</sup>, Rhushikesh A. Kharkar<sup>1</sup>, Sachin A. Mandavgane<sup>1,\*</sup>, Bhaskar D. Kulkarni<sup>2</sup>

<sup>1</sup> Chemical Engineering Department, Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur 440010, India.

<sup>2</sup>National Chemical Laboratory, Pune.

\*Email: mandavgane1@gmail.com (S.A. Mandavgane)

### **Highlights:**

- Authors have developed alternative construction materials using wastes
- The work aims at sustainability assessment of waste based bricks & burnt clay brick
- Economic, environmental, social & technical parameters are accounted for assessment
- Life cycle assessment is performed for all the alternatives for the first time

### **Abstract**

Manufacturing of bricks, using clay or fly ash, is one of the major contributors to greenhouse gas emissions as their manufacturing involves utilization of coal and cement. To overcome this limitation, alternative construction materials are developed by author using industrial and agro wastes like cotton mill waste, recycled paper mill waste, and rice husk ash. This work aims at performing a sustainability assessment of burnt clay bricks and bricks made of industrial and

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