

ISBN	978-93-88122-14-6
Website	www.veltech.edu.in
Received	03-May-2020
Article ID	NISDCE136

VOL	01
eMail	nisdce@veltech.edu.in
Accepted	18-May-2020
eAID	2020.nisdce.136

## A REVIEW OF APPLICATIONS OF 3D PRINTING IN CONSTRUCTION INDUSTRY

Anirudha Anil Desai<sup>1</sup> Mayur Madhukar Maske<sup>2</sup>

<sup>1</sup> UG Student, Rajarambapu Institute of Technology, Maharashtra.

<sup>2</sup> Assistant Professor, Rajarambapu Institute of Technology, Maharashtra.

**ABSTRACT:** The construction industry is constantly looking for new ways to improve project efficiency and profitability. Many new technologies such as Business Information Modeling (BIM), and project management software have been introduced to aid in preconstruction and on site coordination. However, traditional building methods have remained relatively unchanged for decades. 3D printing is a promising new technology that has the potential to not only be an effective means of increasing project efficiency, profitability, reduce time required, labor cost and wastage of materials in the field, but also have positive environmental impacts. However, as it exists today, this technology is highly limited by size, material, skilled labor, and industry reluctance. In this paper we have focused on introduction, applications, material used, advantages and disadvantages of 3D printing technology.

**Keywords:** BIM, Project Management, 3D Printing Technology

This paper is prepared exclusively for International E-Conference on Novel Innovations and Sustainable Development in Civil Engineering 2020 which is published by ASDF International, registered in London, United Kingdom under the directions of the Editor-in-Chief Dr E B Perumal Pillai and Editors Dr. M Vinod Kumar and Mr. R. Saravana Kumar. Permission to make digital or hard copies of part or all of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage, and that copies bear this notice and the full citation on the first page. Copyrights for third-party components of this work must be honored. For all other uses, contact the owner/author(s). Copyright Holder can be reached at copy@asdf.international for distribution.

2020 © Reserved by Association of Scientists, Developers and Faculties [www.ASDF.international]