

Volume 8, Number 1,  
January-June 2020

# Indian Journal of Architecture and Interior Design

*Editor-in-Chief:*

Prof. Ossama M. M. El-Shazly



**GBS**  
**PUBLISHERS & DISTRIBUTORS (I)**  
<http://www.gbspublisher.com>

# Indian Journal of Architecture and Interior Design

Volume 8, Number 1 (2020)

## Contents

- Assessment of Sorptivity and Water Absorption of Concrete with Partial Replacement of Cement by Sugarcane Bagasse Ash (SCBA) and Silica Fume** 1-14  
*T.Santhosh Kumar, K.V.G.D Balajia and K.Rajasekhar*
- Radiation Safety in Designing of Health Care Facilities** 15-23  
*<sup>1</sup>V. Telichenko and <sup>2</sup>I. Dorogan*
- Simulation of Soil Water Retention Curve using Artificial Neural Networks with Pseudocontinuous Pedotransfer Functions** 25-40  
*M. Adams Joe and Dr. P. Rajesh Prasanna*
- Study on compressive strength of mineral admixtures and fibers to develop high performance concrete** 41-53  
*Nivin Philip and Dr. Neeraja*
- Assessment of possible investments in energy efficiency increase in housing sector of Russian Federation** 55-58  
*Volkov Andrey Anatolievich, Sedov Artem Vladimirovich and Chelyshkov Pavel Dmitrievich*
- Size Effect on the Load Carrying Capacity of Normal and Lightweight Concrete Filled Square Steel Tube Composite Columns** 59-68  
*Samoel Mahdi Saleh*
- Seismic Analysis of Soil-pile Interaction under Various Soil Conditions** 69-79  
*Preeti Codoori and Jagan Mohan Kummari*