

GUIDEBOOK ON ARCHITECTURE & CONSTRUCTION WITH STEEL FOR STUDENTS

Published by

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FOREWORD

This publication is an extract of our original publication "Handbook on Architecture and Construction in Steel" and specially compiled for the students fraternity. We sincerely expect this publication would augment the basic knowledge of steel based construction in the young minds who are the backbone of our country. To INSDAG, Steel Based Construction always stands for Responsible Construction. Responsible construction to us is the self indulgence to the social responsibility while we do the construction. Right choice of materials, construction practices and sequence, aesthetics, sense of optimality and more importantly responsibly compromise with the situation are all pillars of Responsible construction. Sustainability in every phases of construction should be our responsibility. INSDAG would like to congratulate all students who aim to build the nation with such responsibility.

The original publication was prepared by an expert committee engaged by INSDAG, which includes renowned academicians from IIT Madras and Anna University, Chennai. It was prepared under the guidance of Dr. A R Santhakumar, former Dean of Civil Engineering, Anna University and former Visiting Professor, IIT Madras and the document had been reviewed by Dr. Graham Owens, former Director General, SCI, UK; reputed practicing Architects like Prof. (Dr.) Gopal Mitra; Mr. Subir Ranjan Sengupta (late); Mr. Gurunath Dalvi, former President of Indian Institute of Architects and they had made their valuable suggestions, which have enriched the quality of the publication. INSDAG had also organized two (2) seminar-cum-discussions at Chennai and Pune with the Architect fraternity on the contents of the book. The observations of the participating Architects have also been incorporated with due care. INSDAG remains grateful to the Steel Development Fund (SDF) for providing the necessary fund towards preparing and printing this publication.

It has been observed that in colleges and universities teaching of steel structural design is not being accorded due importance as compared to other conventional methods. With a view to promoting usage of Steel in the most efficient and cost effective way, INSDAG has already published a set of books on the design and construction methodologies using Steel. Since 1999-2000 during the National Competition on innovative use of Steel in Architecture for the students organized by INSDAG, the faculties, practicing Architects and the students had felt the need for bringing out one publication meant for the Architects only because such books are hardly available in India considering the constraints of workmanship and the existing quality of material available in the domestic market.

Therefore, in this publication the expert committee has given more stress on the aspects of Steel Architecture and construction applicable to the Indian scenario vis-a-vis the concepts and construction using Steel popularly followed abroad.

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