



Promotional Activities

- ❖ Shri Binoy Kumar, Secretary Designate, Ministry of Steel, Govt of India visited INSDAG Office on August 14, 2018. He reviewed the activities of INSDAG and interacted with all the INSDAG Officials. DG INSDAG delivered a presentation on INSDAG activities before Shri Kumar.
- ❖ DG INSDAG attended and conducted the seminar titled 'Metals Conclave 2018' organized by BCC&I at Kolkata on July 18, 2018. He moderated multiple sessions in the programme. He also delivered a presentation titled 'Steel Intensive Growth : Ensuring Increase in Steel Consumption and Enhancing Steel Usage' during the programme.
- ❖ Mr P L Rao & Mr M M Ghosh have inspected a proto type of the walkway for Modular Steel Bridge developed by Garden Reach ShipBuilders and Engineer's Limited, Kolkata on 2nd July 2018 at their works at Kolkata.
- ❖ Ms Nivedita Dey and Mr M M Ghosh are organising Summer Internship for 3rd-4th Year Engineering students of various Engineering Colleges. Six students from Adamas University were imparted training during 2nd to 26th July 2018.
- ❖ Mr D Datta, AGM has been invited by SPA, New Delhi to deliver total 6 lectures on 3 different dates on "Steel in Architecture" and to address their students in Design Studio on the National Architecture Award being organised by INSDAG for the 19th year. These lectures are parts of the new Elective subject of Structural Engineering introduced by them for their final year final semester students.
- ❖ DG INSDAG attended meeting of the Economic Sub-Committee of Indian Steel Association on July 24, 2018 at New Delhi. The agenda of the meeting was to discuss and finalize the Short Range Outlook on Steel Demand in India for 2018 and 2019.
- ❖ DG INSDAG attended FICCI Steel Committee meeting on July 27, 2018 at New Delhi.
- ❖ Being invited by M/s Steel Scenario Mr. D Datta has delivered a presentation on "Steel intensive Rural House" in a seminar organised by them at the India International Center, New Delhi on 31st July. INSDAG innovative design of Rural House has been quite appreciated by the elite audience representing different stake holders of Steel fraternity including SRTMI & SUFI.
- ❖ Following presentation delivered by Mr D Datta, AGM at ISP, Burnpur, CET has shown interest in constructing 105 nos. Steel intensive (G+7) storeyed buildings for the redevelopment project of Burnpur town. HOD (Civil) has had a teleconference with Mr. Datta on various aspects of Steel intensive residential buildings for preparing a budgetary proposal for this project.
- ❖ Mr M M Ghosh attended a programme organized by BIS on Fire Protection of Steel Structures based on National Building Codes 22016 on August 17, 2018 at Kolkata.
- ❖ M/s R R Agro Products of Siliguri has assigned to INSDAG a new Structural design job their proposed Cold Storage at Ambari-Falakata, Siliguri, which will be RCC foundation with Steel superstructure.
- ❖ Mr M M Ghosh delivered a presentation on "STEEL INTENSIVE GROWTH, Codal Development" in the Metal Conclave 2018 organised by BCCI at Lalit GreatEastern, Kolkata on 18th July 2018.
- ❖ Being invited by IEST Shibpur Mr. D Datta has addressed their students about the National Architecture Award Competition being organised by INSDAG for the 19th year and has delivered a presentation on "Challenges in design of Steel Structures" in a programme organised by them at their college premises on 25th July.
- ❖ Dr J K Saha, Mr M M Ghosh, Mr Shiladitya Chanda, Ms Nivedita De attended the Metals Conclave 2018 organised by BCCI at Lalit GreatEastern, Kolkata on 18th July 2018.

- ❖ INSDAG Yearbook 2017-2018 has received ISBN (International Standard Book Number) from Ministry of Higher Education & Human Resource Development. The book is under printing. Reputed organisations like TCE, L & T and many colleges have booked for copies of the book.
- ❖ Knowing that the theme problem of the National Architecture Award being organised by INSDAG for the 19th year is design of International airport in India, Ms. Kalpana Sethi, former ED, AAI has shown interest in it and has agreed to be a member of its jury in the Final Evaluation Round to be held in February 2019.

Sushim Banerjee
Director General

1.0 Project Activities

Project Scope / Objective	Publication	Codes & Standards	Survey / Study	Skill Development
	Seminar / Workshop	Implementation	Rural Promotion	Learning & Growth

1.01	Students Mentoring Programme for Final Year Engineering Students on Steel Applications		Completion Time March 01, 2019	
Project Scope / Objective		Skill Development		Learning & Growth
Milestone for the month	Achievement		Rolling Targets	
			Similar workshops will be organised	
Remarks	Three Workshops organized at IEST Shibpur for Metallurgical Engineering Students			

1.02	Performance Evaluation of Different types of Pre-coated Steel Sheets		Completion Time September 30, 2019	
Project Scope / Objective		Survey / Study	Publication	Learning & Growth
Milestone for the month	Achievement		Rolling Targets	
			Testing to continue	
Remarks	First report is under modification and review meeting with IIT (Madras) along with JSW Steel representative is due in October 2018. The methodology for exposed samples testing will be worked out during the meeting.			

1.03	Evaluation & Life Prediction of Galvanised Wires used in Farming & Fencing Applications		Completion Time October 31, 2021	
Project Scope / Objective		Survey / Study	Publication	Learning & Growth
Milestone for the month	Achievement		Rolling Targets	
Remarks	Tata Steel has to place work order in order to start the job. This project is sponsored by Tata Steel. Tata Steel (Wires Division) has changed the project profile from Farming wires to both farming and poultry wires applications. Proposal is to be submitted to Tata Steel for approval of Rs.13.56 lakhs.			

1.04	Formulation, Updation of Steel Codes through MTD 4 & CED 54		Completion Time March 31, 2019	
Project Scope / Objective		Codes & Standards		Learning & Growth
Milestone for the month	Achievement		Rolling Targets	
Remarks	IS Code harmonisation work is discontinued as there is some communication gap from BIS whether their exercise will dilute Quality Certification of IS Codes.			

	<p>Draft prepared on IS 11587 (Weathering Steel) has been discussed in last MTD 4 meeting of BIS , released for wide circulation.</p> <p>INSDAG has been made convenor for ISO TC 17/SC 3 to work on Steel for Structural purposes and to reply for ISC Code Committee.</p> <p>INSDAG, as BIS panel member as stated above reviews IS standards and provides clarification on Coverage of Structural Steel grades under Quality Control orders for import of steel products</p> <p>INSDAG participated in the meeting on 17th May 2018 at Tata Centre to discuss about wires conforming to IS 14246, IS 15965, IS 15961. BIS's involvement is required.</p>
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1.05	Training of Worksmen, Supervisors & Engineers on Steel Structure Painting	Completion Time
Project Scope / Objective		Skill Development
Learning & Growth		
Milestone for the month	Achievement	Rolling Targets
Remarks	Berger Paints is not showing any interest on this project to spare facilities. Moreover, SSSC is also conducting this type of training. Hence project may be dropped due to non-availability of sponsors.	

1.06	Guidebook on Steel Plate Shear Walls	Completion Time June 30, 2018
Project Scope / Objective		Publication
Learning & Growth		
Milestone for the month	Achievement	Rolling Targets
Remarks	Draft has been prepared. Final typing is under progress.	

1.07	Design Guidebook on Steel Connections	Completion Time October 31, 2018
Project Scope / Objective		Publication
Learning & Growth		
Milestone for the month	Achievement	Rolling Targets
Remarks	Write up of the publication is under progress.	

1.08	INSDAG Yearbook 2017		Completion Time March 31, 2018
Project Scope / Objective		Publication	Learning & Growth
Milestone for the month	Achievement	Rolling Targets	
Remarks	INSDAG has received ISBN number (from Ministry of Higher Education and Human Resources Development, GOI) of this publication for its international citation. The book is under printing. Many reputed organisations like TCE, L & T and many colleges have booked for their copies of this book.		

1.09	Preparation of Guidebook on Design of Steel-Concrete Composite Box Girder Bridges for Indian Road Congress (IRC)		Completion Time December 31, 2018
Project Scope / Objective		Codes & Standards	Skill Development
Learning & Growth			
Milestone for the month	Achievement	Rolling Targets	
Remarks	Out of the eight (8) chapters planned, one (1) chapter is pending. This chapter on Worked out example is being prepared by the sub-committee entrusted with the preparation of the guidebook. Dr Satish Kumar & Dr A Jayachandran are jointly working on that chapter on Worked out examples. The worked out example will be completed by the 3rd week of September 2018 and the entire document will be compiled for final submission. Another example based on live project is being prepared under the stewardship of Dr N Bandyopadhyay.		

1.10	Development of Explanatory Commentary on Standard Specifications and Code of Practice for Road Bridges Section IV Composite Construction Limit State Design (First Revision)		Completion Time May 31, 2018
Project Scope / Objective		Codes & Standards	Skill Development
Learning & Growth			
Milestone for the month	Achievement	Rolling Targets	
Remarks	The explanatory handbook published by a Committee where INSDAG is a member has been passed by the BSS committee of the Indian Roads Congress and then approved by the IRC Council during its council meeting at Aizawl, last month. It is under publication by IRC.		

1.11	Involvement and interaction in connection with revision of Steel and Steel-Concrete Composite Codes for Indian Road Congress		Completion Time December 31, 2020
Project Scope / Objective		Codes & Standards	Learning & Growth
Milestone for the month	Achievement	Rolling Targets	
Remarks	Revision of IRC: 24-2010 has been taken up in line with revision of IS: 800. Items of "Paints" and "New Connections" have been included. Specifications on Hybrid		

	Sections HSFG bolts, Pin Connections, Strength of fillet, butt welds and many other new introductions including paints have been taken up. Additions in Section Classifications are being worked out.
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1.12	Development of IS: 801 Code & Handbook for Design of Cold-formed Steel Members			Completion Time March 30, 2017
Project Scope / Objective		Codes & Standards	Seminar / Workshop	Skill Development
Milestone for the month		Achievement	Rolling Targets	
Remarks	BIS CED 7 Code committee meeting was held at Chennai on 21st Dec 2017. The MOM specifies draft code to be submitted by Feb 2018. However, it is still under preparation. Presently INSDAG does not have any more involvement.			

1.13	Design Manual for Designing Steel Structures according to new IS 800-2007- Modification			Completion Time May 31, 2018
Project Scope / Objective		Codes & Standards	Publication	Learning & Growth
Milestone for the month		Achievement	Rolling Targets	
Remarks	As this modification is based on IS 808 which is under revision and yet to be finalised, the manual has been modified based on draft code. The manual can be finalised only after checking with the final IS 808.			

1.14	Design Guidebook for Beams with Web Openings			Completion Time March 31, 2018
Project Scope / Objective		Publication	Learning & Growth	
Milestone for the month		Achievement	Rolling Targets	
Remarks	Write up of 4 chapters on Theory and Design of Beams with small and large opening is under preparation. Project will be completed by December 2018.			

1.15	Design Study of Residential Building (G+3) - Comparison between Steel Concrete Composite and RCC options			Completion Time March 31, 2018
Project Scope / Objective		Publication	Learning & Growth	
Milestone for the month		Achievement	Rolling Targets	
Remarks	Project scope has been changed to G+3 from G+5 as per MoS requirement. A typical plan of a structure is collected for carrying out the comparative study. STAAD Analysis of RCC & Steel module is completed. Drawings of RCC option and Steel-concrete option have been received from draftsman. Detailed estimation of the two options are being carried out.			

1.16	Manual for Erection of Steel Structures		Completion Time December 31, 2018
Project Scope / Objective		Publication	Learning & Growth
Milestone for the month	Achievement	Rolling Targets	
To compile chapter on "Inspection of Welds"	The chapter is partly completed. Need some more data to complete the chapter	All compilation should be completed by next three months	
Remarks	The project has been re-started.		

2.0 Education & Training :

2.1	Refresher Courses, Short Term Training Programme (STTP), Professional Development and Seminars	Completion Time September 30, 2019
Project Scope / Objective		Seminar / Workshop
Skill Development		
Milestone for the month	Achievement	Rolling Targets
Remarks	Suitable training Programs are being explored. However programs will be organised at opportune moments.	

2.2	Award Competition for Civil / Structural Engg. Students: 2017-18	Completion Time December 31, 2018
Project Scope / Objective		Skill Development
Milestone for the month	Achievement	Rolling Targets
Remarks	Received 80 EoI from 4 zones. Final submission date - September 28, 2018.	

2.3	National Structural Steel Design & Construction Awards Competition for Professionals 2014-2015	Completion Time
Project Scope / Objective		Skill Development
Milestone for the month	Achievement	Rolling Targets
Remarks	17 nos entries are received. The inputs have been received from jury members after their necessary studies. The first jury meeting was held on 10th March 2018. First site visit at Bangalore, Pune, Goa has been done during 16-18 May 2018. Second stage of site visit has been done at Vadodara Airport and Chandigarh Airport on 11-12 June 2018. Final result will be published soon.	

2.4	National Competition for Best Innovative Use of Steel in Architecture for the year 2018	Completion Time December 31, 2018
Project Scope / Objective		Skill Development
Milestone for the month	Achievement	Rolling Targets
Remarks	The theme problem for this year is "International Airport upgrading domestic airport / airbase in India". Following several requests from colleges the scope of the theme has been extended to both Brownfield and Greenfield international airport proposed by AAI. The Brochure of the competition for the year 2018 has been sent to about 463 Architectural colleges & to some Design colleges in India thrice. INSDAG has already received 5 EOIs (EZ - 1; WZ - 2; SZ - 2). INSDAG has been informed verbally by BIT, Mesra; IIT, Kharagpur; SPA, New Delhi; Anna University; Chitkara School of Architecture, Punjab that they have introduced the theme in their sessional project work. NID, Ahmedabad has informed verbally that their students will take part and this will be first	

	participation in this competition from any design school.Mr. D Datta has been invited by SPA, New Delhi to address their students about this competition.
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3.0 Implementation Projects :

3.1	Market Development Project. Concrete infilled Steel Hollow sections acting as Steel Hollow Columns	Completion Time
Project Scope / Objective		Publication
Implementation		Learning & Growth
Remarks	MDP proposal had been sent to MoS and call for presentation jointly by INSDAG & CSIR-CBRI from the concerned committee is being awaited.	

3.2	Designing and Development of 3 storied Quarters for Tasra Iron Ore Mines of SAIL	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	Implementation is awaited by M/s LANCO who are the concerned mines development agency of SAIL in Arenda mines area. .	

3.3	Designing for modification of 160 dwelling units for Gua Iron Ore Mines of SAIL	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	Response is awaited from SAIL.	

3.4	Design of Data Center Building at Shillong Water Resource department	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	Implementation is awaited by client.	

3.5	Construction of 3 storeyed composite residential building in Kolkata	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	RCC foundation work has been completed. Erection of Steel structures has commenced.	

3.6	Rural Housing projects as per design developed by INSDAG	Completion Time
Project Scope / Objective		Implementation
Rural Promotion		
Remarks	INSDAG has coordinated with the competent authority of Jharkhand Government for implementation of 400 nos. Rural Houses (in parts) as per the patented technology developed by INSDAG under their R & R (Relief & Rehabilitation) scheme. As per their request INSDAG has sent a detail write-up on this technology for their consideration. The authority has principally agreed to do the implementation of 25 such houses as a start-up. Final decision is awaited.	

3.7	Design of Presbyterial Church at Umlynka, Meghalaya	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	Fabrication drawings have been submitted to the client.	

3.8	Analysis and Design validation of Modular Steel Bridge for various spans	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	Quotation has been submitted against a proposal sent by a private party at Kolkata. Finalisation of order is pending.	

3.9	Design of Steel intensive Cold Storage at Siliguri	Completion Time
Project Scope / Objective		Implementation
Learning & Growth		
Remarks	Analysis of the Structure has been completed. G.A. drawings have been submitted to the client.	