SOAR

CONSULTANCY SERVICES

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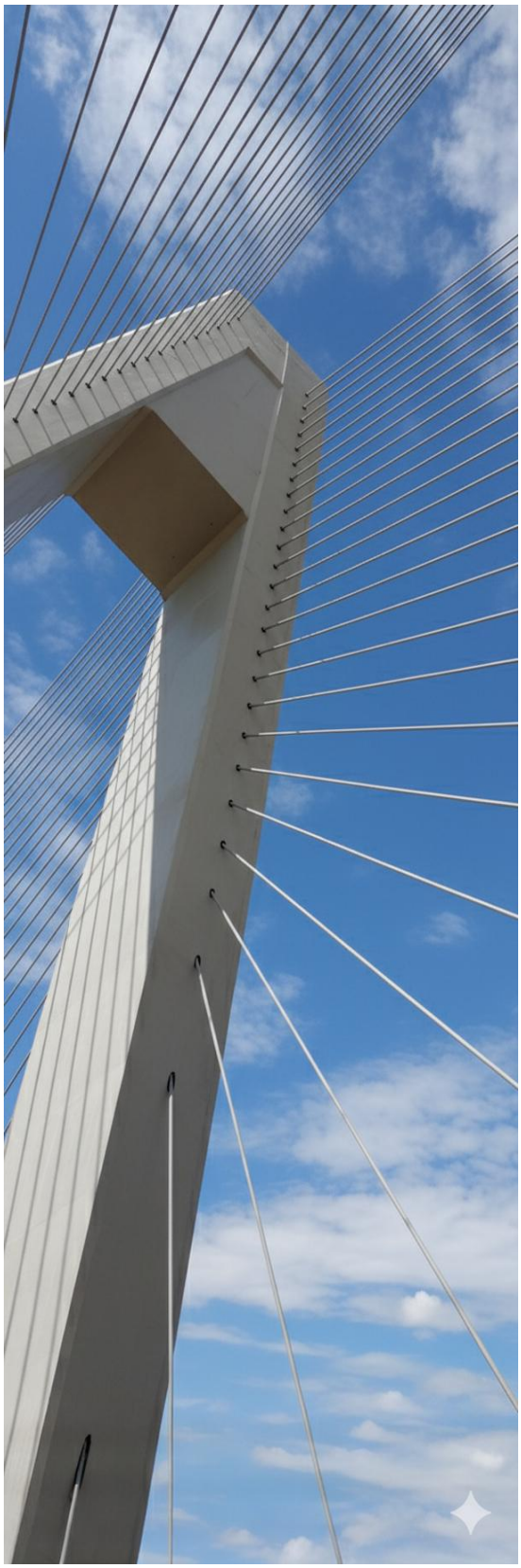


INTRODUCTION

In the context of evolving development and intelligent infrastructure, the forthcoming generation of transportation will be characterized by advanced road and bridge networks. As we analyze the trends impacting the future of our transport networks, a paradigm shift is necessary in our approach to major infrastructure projects. These trends encompass:

- Accelerated and continuous urbanization
- Technological advancements
- Resource limitations
- The expansion of emerging markets

To guarantee that the bridges/infrastructure we design today effectively address the unprecedented demands for construction speed and adaptability, a thorough understanding of future user requirements is paramount.

SOAR, established in 2024, is a premier provider of bridge and civil structures engineering services, possessing significant expertise, particularly in bridge design. The company's portfolio encompasses 60 structures, including long-span bridges, and is managed by a dedicated bridges group based in India. SOAR's experience spans all facets of bridge design, encompassing large-span, rail, road, and pedestrian bridges, in addition to specialized civil structures such as balanced cantilever bridges.

SOAR acknowledges the imperative to adapt current infrastructure through realignment, strengthening, and widening initiatives, driven by increasing traffic volumes, population growth, and the integration of new technologies. Leveraging their distinctive expertise and innovative methodologies, SOAR aims to apply novel insights throughout the project lifecycle, encompassing planning, design, construction, and maintenance phases, to maximize asset lifetime value and deliver truly transformative infrastructure solutions.

OBJECTIVE

We are not a mere Consulting company. We are team of dedicated individuals determined to bring growth to our community, working towards enhancement of the current infrastructure of the region along with assisting our clients in making their dreams become a reality.

We have always committed ourselves to deliver the highest quality work, efficiency & timely delivery, growing resources, expanding activities and increasing involvement in projects to achieve total client satisfaction through our highly qualified professionals.

MISSION

We are successful in Designing various projects in & around India with client satisfaction. we strengthen our firm by implementing modern technology and differentiate our business from our peers, as we handle the projects with augmenting technical skill sets.

VISION AND VALUES

At SOAR we intend to build best in the field of Civil construction with safety, quality commitment & entire satisfaction of our clients we look forward to build the society with worldclass, infrastructure, residential, industrial & commercial constructions and be the most trusted & preferred construction firm in years to come.

CORE TEAM

FOUNDER AND CHAIRMAN

Ph.D. (Structural Eng.)
IIT Bombay
M.E. (Structural Eng.)
IISc Bangalore

Dr. Avinash Kumar, ***Ex-IRSE***, is a passionate and seasoned structural engineer with over 20 years of experience in railway infrastructure, bridge design, and structural rehabilitation. During his career with Indian Railways, he held key leadership positions, including Deputy Chief Engineer (Design & Construction) on Western Railway, overseeing major bridge projects. As a Professor at IRICEN, Pune, he has mentored engineers and contributed to research, policy development, and technical innovations in bridge engineering.

Dr. Avinash Kumar's expertise is in bridge design, strengthening and retrofitting, structural health monitoring, and rail–structure interaction analysis. He is well conversant with both National and International design codes such as IS, IRS, IRC, Eurocode, ACI, AASHTO ACI-440, fib, TR-55 AND CSA. He Secured AIR 3rd in the UPSC Engineering Services Examination and AIR 7th in GATE. An accomplished author, he has published numerous papers and book chapters. He combines academic excellence with practical leadership, driving safer, more efficient, and sustainable solutions in bridge engineering.

GENERAL MANAGER (TECHNICAL)

ME (Geotechnical Eng.)
IIT Roorkee.

Er. Brijesh Galav, Ex. IRSE, is a seasoned civil engineering professional with over 27 years of experience in railways, highways, and major infrastructure projects. An accomplished academic, he secured AIR-8 in GATE and qualified the UPSC Engineering Services Examination twice.

He held key leadership roles in Indian Railways, delivering major bridge rehabilitation, steel girder replacement, tunnel restoration, and station development works in challenging regions. In senior roles with Tribeni Constructions, STCPL, and PNC Infratech, he led multi-crore infrastructure projects involving bridges, earthwork, and new line construction across Assam and Bihar. Known for his technical depth, execution excellence, and leadership, he is recognized for delivering complex projects with quality and reliability

GENERAL MANAGER (DESIGN)

PG IPM IIM VIZAG
M Tech (Structural Eng.)
NIT Jaipur.

Er. Ashishkumar Vishwakarma has over 12 years of experience in the field of designing various types of special bridge structures. His job profile consists of project planning, analysis & detailed design of structure with BOQ. He is well conversant with IRC, IRS and IS codes. He has done Coordination with approval agencies such as Proof Consultant, Authority Engineer, and Government Organization. His practical understanding of bridge construction, combined with advanced design capabilities, allows him to deliver technically sound and constructible solutions.

In addition to new bridge design, his expertise includes structural inspection, retrofitting strategies, and preparation of condition assessment reports.

DEPUTY MANAGER (DESIGN)

M Tech (Structural Eng.)
NIT Jaipur.

Er. Nikhil Mehta is a structural engineer with over seven years of experience in bridge engineering and structural design including tender stage design. He specializes in the design of substructure components–such as foundations, piers, abutments and superstructure of various configuration and types –for both PSC and steel bridges, with significant experience in Indian Railway bridge projects. Nikhil is well-versed in the application of Indian (IRC, IRS, IS) and international codes for design, analysis, and detailing. He is proficient in Microsoft office, STAAD Pro, AUTOCAD, MIDAS Civil 3D

BRIDGE DESIGN ENGINEER

M Tech Thapar University.

Er. Gopesh Gupta is a structural engineer with over four years of experience in bridge engineering and structural design including in on-site execution. He specializes in the design of substructure components–such as foundations, piers, and abutments–for both PSC and steel bridges, with significant experience in Indian Railway bridge projects. Gopesh is well-versed in the application of Indian (IRC, IRS, IS) and international codes for design, analysis, and detailing.

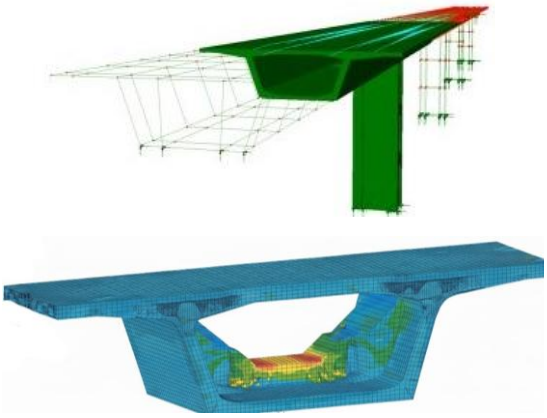
BRIDGE DESIGN ENGINEER

M Tech (Structural Eng.)
IIT Guwahati.

Er. Sumit Kumar is a Structural Design Engineer with expertise in bridge design, analysis, and structural engineering research.

At IIT Guwahati, his research focused on the fatigue assessment of bridge structures as per the Indian Steel Bridge Code and Eurocodes, along with Rail–Structure Interaction (RSI) modeling in accordance with RDSO and UIC guidelines. He is proficient in Midas Civil, STAAD.Pro, IDEA StatiCa, AutoCAD, ETABS and MATLAB.

OUR EXPERTISE



1. Detailed Engineering

We are into detailed Engineering of bridge as it is most crucial phase of the design process, where all preliminary and conceptual designs are refined into complete, practical, and constructible plans. In this phase we produce comprehensive design and drawing for fabrication, and on-site construction.

2. Bridge Inspection

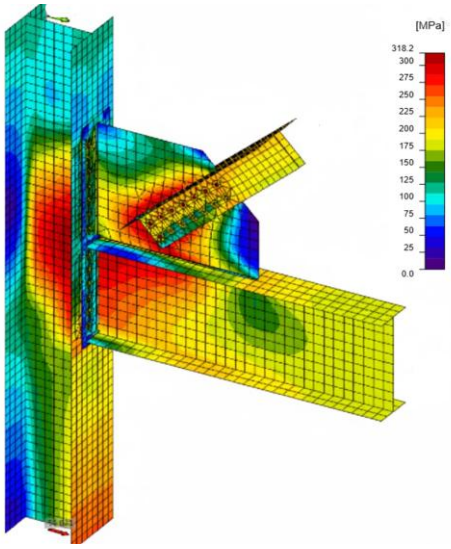
We provide bridge systematic inspection, detailed examination of a bridge structure to determine its current physical condition, identify defects and deterioration, assess its load-carrying capacity, and ensure public safety. The primary goal is to gather data necessary for timely maintenance, repair, and rehabilitation decisions, ensuring the bridge meets its required service life.

3. Instrumentation & Health Monitoring

We Provide Structural Health Monitoring (SHM), in this we integrate sensors into bridges and other civil structures to collect data on their condition, performance, and integrity in real-time or over long periods. The primary goal of an SHM system is to move from scheduled, time-based maintenance to condition-based and performance-based maintenance, allowing owners to intervene precisely when needed.

4. Retrofitting and Rehabilitation of Bridges

We reevaluate the existing design of bridges using FEM model and provide bridge retrofitting scheme is a comprehensive plan of engineering measures designed to enhance the performance, safety, and longevity of an existing bridge structure. This is typically done to meet current design standards (especially for seismic resistance), increase load capacity, or mitigate deterioration.

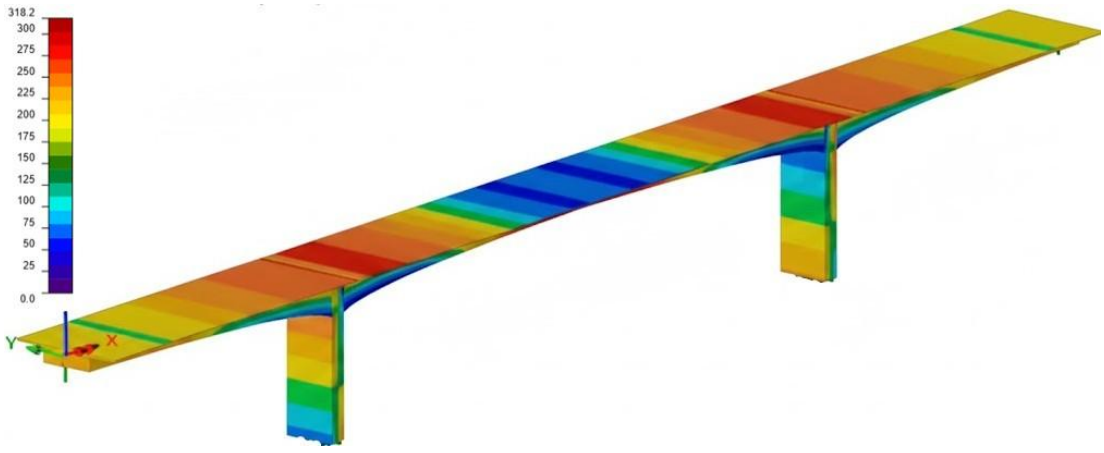


5. Proof Checking

We provide proof checking and independent review of the design calculations, drawings, and specifications. The purpose is to ensure the design is safe, compliant with codes, economical, and constructible, thereby mitigating the risk of structural failure or costly construction errors.

6. Construction Stage Analysis

We provide recommendations for how the bridge is to be built in stages, especially for complex erection sequences for example launching of steel girders, segmental construction, cantilever construction method etc. We provide construction stages analysis for cable stay and extradosed bridges.



7. Prebid Engineering

We Provide technical evaluation and design optimization for the contractor before submitting a formal tender or bid for a construction project.

CLIENT


NATIONAL HIGHWAY AUTHORITY OF INDIA
भा रा रा प्रा
NHAI


INDIAN RAILWAYS
EAST CENTRAL RAILWAY


मुंबई रेलवे विकास कॉरपोरेशन लि.


रेल विकास निगम लिमिटेड
(भारत सरकार का उपक्रम)
Rail Vikas Nigam Limited
(A Government of India Enterprises)


डेडीकेटेड फ्रेट कोरीडोर
Dedicated Freight Corridor
Corporation of India Ltd.


INDIAN RAILWAYS
SOUTH CENTRAL RAILWAY


South Eastern Railway


RITES
THE INFRASTRUCTURE PEOPLE


INDIAN RAILWAYS
NORTH CENTRAL RAILWAY


INDIAN RAILWAYS
पश्चिम रेलवे
WESTERN RAILWAY


भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Technology Guwahati


INDIAN RAILWAYS
मध्य रेल
Central Railway


SANNVERSE
Contributing to a Better World


H.G. INFRA ENGG. LTD.
WE MAKE PEOPLE MOVE