

## BRIEF BIO-DATA OF STAFF

**Name:** **JITENDRA KUMAR GOYAL**



**Designation :** Principal Scientist, Bridges and Structures

**Education:** B. E. (Civil Engg.), M. E. (Structures)

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### **Brief Summary of work**

**Mr. J. K. Goyal, a Civil Engineer with Post Graduation in Structural Engineering (First Class honors) from BITS Pilani** has more than 22 **years** of professional experience in R&D and in the execution of **Mega Civil Engineering Projects**.

His main area of work has been in the field of Bridge Health Monitoring Systems, Bridge Management and Rehabilitation of structures through sophisticated instrumentation and theoretical evaluations. He has installed and configured long term monitoring mechanism for number of prestigious bridge projects (long span PSC bridges) and Structures (nuclear power plants). Also, he has contributed to the evaluation of Rail bridges to study the effect of higher axle load. Shri Goyal has provided leadership to many projects in SERC/CRRI sponsored by Ministry of Road Transport and Highways, Ministry of Indian Railways, State PWDs, Public Sector Organisations and Supra Institutional Projects from CSIR under 11<sup>th</sup> Five Year Plan. Shri Goyal has been acting as Sub -Module Leader for Developing Infrastructure Information System for Maintenance of Bridges in India under Deptt. of Science and Technology and Planning Commission Sponsored Projects.

Recently, Shri Goyal has successfully completed the Advanced Training Programme on Road Sector Management (RSM-2009) conducted by Swedish International Development Corporation Agency (SIDA) in association with SWe Road (Swedish Road Authority). The completion of reform project under this programme on “Infrastructure Information System for Maintenance of Bridges in India” received a wide appreciation in the international forum.

**Shri Goyal has also hands on experience of 7 years in the execution of highways projects involving International Standards of Roads and Bridges and funded through multilateral agencies viz., Asian Development Bank, BOT and through PPP Model as well.** He has been instrumental in awarding the Golden Quadrilateral (GQ) Projects from NHAI HQ falling in the Stretches of NH-2, NH-6, NH-60 and NH-5. He is well versed with the requirements of Model Concession Agreement on PPP and FIDIC conditions of Contract.

He has handled the Golden Quadrilateral Projects in the State of Jharkhand and West Bengal worth more than Rs. 2200 Crores in the capacity of “Project Director” (Employer’s Representative). He is well aware of statutory requirements for clearance of Highway projects from various Central/State Government Departments such as Railways, Ministry of Environment and Forest, Mining etc. He has also acquired the huge quantity of land (more than 1000 Acrs.) through State Govt. Agencies under NH-Act. Under his leadership as Project Director, NHAI has been able to achieve completion of National Highway 2 and 6 in 350 km of length comprising some landmark bridges such as 2<sup>nd</sup> Vivekanada Bridge (Nivedita Setu), 30 Nos. Interchanges/flyovers and 4/6 lane Highways connecting Kolkata-Dhanbad and Kolkata- Dankuni-Kharagpur in West Bengal and Jharkhand on GQ corridor.

So far, Shri JK Goyal has published more than 18 Research papers in International and National Conferences and Journals.

#### **Number of Publication:**

#### **Publication in the last Five Years:**

1. G.K. Sahu, **J.K. Goyal** and Ram Kumar “An Approach for Characterisation of Vehicle Loading Using Bridge Weigh-in-Motion on Full Scale Bridges”, Journal of Bridge and Structures (ING-IABSE) – Vol. 2, June 2006.
2. S.K. Sharma, Ram Kumar, VVLK Rao, **J.K. Goyal** and Sukumar Saha “Operational Load Testing and Evaluation of Reinforcement Corrosion of Span P-5 of Zuari Bridge on NH-17 in Goa., Indian Highways (IRC) , April 2009.
3. **J.K. Goyal** (2010), “Fly Ash in Highway Embankments”, New Building Materials & construction World (NBM&CW), Vol. 15, No. 8, pp106-116, March 2010.
4. Rajesh Gupta, Shankadas, Devesh Tiwari and **JK Goyal**,(2010), “Low Cement concrete technology for sustainable Construction, “Indian Concrete Journal” – Vol. 84, No. 11, Nov 2010.
5. Atul Kumar, **J.K. Goyal**, Devesh Tiwari and Shankdas, (2011), “Rehabilitation and Replacement of Bearings of Balram Bridge on NH-14 of East-West Corridor, Indian Highways ,Vol. 39, N0.4, April 2011.
6. **J. K. Goyal, (2011)**, “External Prestressing: An effective Solution for Rehabilitation of Bridges, National conference organised by Indian Concrete Institute (ICI-UP- West Chapter) on Repair and Rehabilitation of Concrete Structures, NOIDA, UP in May 2011.