

## **DURGAPRASAD GOLLA**

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A Bridge Engineering Scientist with 7 years of professional experience in the field of Designing and Value Engineering of Structures on National Highways as per MORT&H guidelines ,IRC Codes & BS Code.

### **Key Roles:**

Analysis and design of Bridges, flyovers and other cross drainage structures. Experience includes design of substructure like Pier, Abutments, Open-foundations, Pile foundation, Box-structures, retaining structures etc. Superstructures like RCC Voids-Slab, RCC solid slab; RCC and PSC T-Beam Bridge, Precast RCC girders etc. of Bridges, Integral Bridges, and design of substructure with limit state (IRC-112). Has the experience of working with engineering software like STAAD Pro, and fully conversant with MS-office, and also has thorough knowledge of Midas Civil, AutoCAD, and C Programming Language.

### **Education:**

- M Tech (Structural Engineering) from IIIT Hyderabad (Deemed University) - 2010 with 8.5 CGPA.
- B.Tech (Civil) from Osmania University - 2008 with 78%.
- Board of Intermediate - 2004 with 80%.
- Board of Secondary Education - 2002 with 86%.

### **Career Track:**

1. Organization : **CSIR-CRRI**(Centre for Road Research Institute-New Delhi)  
Designation : Scientist  
Department : Bridge Engineering and Structures Division.  
Tenure : July 2016 to till date

### **Research Projects**

- Utilization of Construction and Demolition waste in Structural Applications – OLP.
- Independent Review of Signature Bridge for Technical and Contractual Issues – SSP.

## Conference Papers

- “Utilization of Construction and Demolition waste in Structural Applications” at India International Science festival (IISF) on 08th Dec 2016 representing CSIR-CRRI at National Level. Under “Waste to Wealth” Theme.
- “Prospectus of Utilization of Construction and Demolition Waste in developing Structural grade Concrete - Way forward” at BITCON-2017, Bhilal Institute of Technology, Durg March 2017.

2. Organization : EGIS India Pvt Ltd. (French Consultancy)  
Designation : Bridge Engineer  
Department : Structures Department  
Tenure : Oct 2015 to July 2016

### Projects handled at EGIS India Consulting Engineers:

- DPR of Bangalore-Chennai Expressway Road project of 260 KM (4 lane)
- DPR of 4 Laning of Adilabad Road Project
- 4 Laning / 6 Laning of Aurangabad road section of NH 211 (86 Km)
- Thiruvananthapuram Flyover Detailed design.

3. Organization : **M/s L&T Engineering Design and Research Centre**  
Designation : Assistant Engineering Manager (AEM)  
Department : Transportation Infrastructure  
Tenure : Aug 2012 to Oct 2015

### Projects worked on:

- 2 Laning of Bijapur-Gulbarga-Humnabad Road project of 220 KM
- 4 Laning of Sangareddy to Maharashtra/Karnataka Border Project of 145 KM
- 4 Laning of Sambalpur Rourkela Road Project of 163 KM
- 4 Laning of Amravati Jalgoan Road Project of 495 KM.

- Worked for “Abu Dhabi international airport midfield terminal complex”. For this project, ADAC planning & development Abu Dhabi Airports Company is the client.

#### **Works Handled at L&T:**

- Designed a number of Superstructure and Sub structures of Flyover, major bridges, minor bridges, Vehicular Underpasses, Pedestrian Underpasses, it includes design of pre-stressed RCC bridges with Open & Pile type of foundations.
- Checking the designs of bridges and any other structures using latest structure design software like STAAD-Pro and MS Excel Standard Spread Sheets etc., to be constructed in the Project Highway.
- Review the working drawings prepared for the construction of various components of the bridges /structures, analysis of rates, estimates etc. and suggest modifications if any.

4. Organization : **M/s KMC Constructions. Ltd** (Through Campus Placement)

Designation : Deputy Manager (DM)

Department : Transportation IC

Tenure : May 2010 to Jul 2012

#### **Works Handled at KMC Constructions:**

As a Deputy Manager, worked on Design of Substructure and Foundations of minor bridges, Major bridges, Underpasses, Cross drainage structures etc.; with open type of foundations, earth retaining structures like retaining walls etc. for **Prebid tendering**. Involved in the estimation for the following.

- Evaluation of economic spans for bridges.
- Evaluation of foundation levels and safe bearing capacity of the soil based on the scour depth calculations and on the availability of rock strata.
- Design of minor bridges, culverts on National Highways as per IRC codal provisions and MORTH specifications.
- Preparation of Drawings.
- Quantity Estimation.

### **Lectures Delivered on:**

- “Highway Construction and Maintenance” organized by National Academy of Construction, Hyderabad and Indian Institute of Technology, Madras.
- “construction and maintenance of Bridges” organized by National Academy of Construction, Hyderabad.
- “Design of National Highway Structures” at CSIR-CRRI, New Delhi.
- “Utilization of Construction and Demolition waste in Structural Applications” at India International Science festival (IISF) New Delhi.
- “Prospectus of Utilization of Construction and Demolition Waste in developing Structural grade Concrete - Way forward” at BITCON-2017.