

# BIHAR VIKAS MISSION

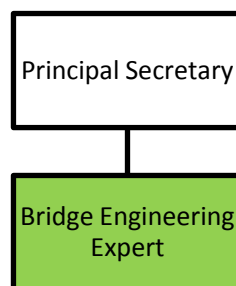
## Job Description



### 1. General Information

|                        |   |
|------------------------|---|
| <b>Position Title:</b> | <b>Bridge Engineering Expert</b>                          |
| <b>Reports to:</b>     | <b>Principal Secretary – Road Construction Department</b> |
| <b>Department:</b>     | <b>Bihar Vikas Mission</b>                                |
| <b>Job Code:</b>       |   |

### 2. Organization Chart



### 3. Key Accountabilities

#### Strategizing and Expert Advisory

- Design a strategic plan and roadmap for construction of modern bridges and their maintenance in the State of Bihar, in conjunction with relevant stakeholders in the Department (Principal Secretary, Secretaries etc.) and related functionaries
- Contribute to Department's work plan related to development of complete road construction or reconstruction plans and specifications, including recommended route locations, minimum design standards, laying grades and computing quantities of materials, through insightful analysis and innovative solutions
- Conduct sector research and provide insights and perspective to ensure incorporation of best practices and latest trends & technologies in bridge engineering from across different states and facilitate management decision-making
- Assist the Department in formulating new policies and reforming existing policies in order to remove procedural delays and expedite the construction of bridges
- Provide the required guidance and support to Department in design review and construction supervision of relevant project structural elements, including temporary works, earthworks, bridges, retaining walls, drainage culverts and any other structures including the management of the engineering team
- Assist the Department in establishment of effective systems and procedures for the construction supervision of earthworks and structural elements
- Provide expert advice for development of proposals and plans for planning and implementation of various initiatives related to bridges and other related infrastructure construction in the State and assist the Department to obtain and meet necessary compliances and regulations, as required
- Assess how the training facilities for engineers in the Department needs to be strengthened and updated and provide recommendations to senior Department officials (Principal Secretary, Secretaries etc.)
- Liaise with relevant officials in the concerned Department to develop ideas and plans to address other priorities related to the Department and undertake strategic and operational planning

# BIHAR VIKAS MISSION

## Job Description



exercises

- Establish and build partnerships with important and relevant national and international level bodies and organizations like Construction Federation of India, World Road Association, Engineering Council of India, IRCON Indian Association of Structural Engineers etc. Research and Training institutes including Central Road Research Institute (CRRI), Engineering Staff College of India etc., and leading private organizations to garner support for building of new infrastructure and upgrading highways and other transport facilities in the State

### Continuous Improvement

- Identify opportunities for continuous improvement of systems, processes and practices taking into account international and national best practices, in order to facilitate cost optimization and productivity improvement

### Policies, Systems, Processes & Procedures

- Recommend improvements to functional procedures and follow all relevant departmental policies, processes, standard operating procedures and instructions so that work is carried out in a controlled and consistent manner

### Related Assignments

- Perform other related duties or assignments as and when required

## 4. Qualifications and Experience

### Essential

- Bachelor's degree or higher (full time) in Civil Engineering
- Minimum 10 years of post-qualification experience in construction / infrastructure sector

### OR

- Retired personnel from Government / Defence Services / Paramilitary with minimum 10 years of experience in construction / infrastructure sector (last held position should not be lower than Superintendent Engineer or equivalent level)

### Preferred

- Less than 70 years of age as on 1st January 2019
- Experience in construction of bridges and / or flyovers including overseeing design, supervision of field teams and ensuring compliance with applicable standards
- Proven track record of working with state / central government organizations / bilateral / multilateral organizations on programs of similar nature and size
- Master's degree or higher (full time) in Civil Engineering / Structural Engineering
- Certificates / Courses in relevant areas will add weight to the candidature
- Honors / Awards / recognized publications in relevant area will be an added advantage

## 5. Knowledge and Other Skills

- Strong interpersonal and networking skills
- Experience of policy and process design, operations development and management in the domain of bridge design / engineering
- Excellent knowledge of latest technologies, trends & best practices in bridge engineering
- Fluency in written and spoken English and Hindi