

BIHAR VIKAS MISSION

Job Description



1. General Information	
Position Title:	Highway Engineering Expert
Reports to:	Principal Secretary – Road Construction Department
Department:	Bihar Vikas Mission
Job Code:	
2. Organization Chart	
<pre> graph TD PS[Principal Secretary] --- HE[Highway Engineering Expert] </pre>	
3. Key Accountabilities	
<p>Strategizing and Expert Advisory</p> <ul style="list-style-type: none"> • Design a strategic plan and roadmap for construction of modern highways 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 highway 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 highways and bridges • Support the Department in traffic forecast on the State Highways and suggest broad layout of intersections, interchanges, grade separators and safety devices • Provide the required guidance and support to Department in reviewing surveys, field investigations, technical designs, drawings and specifications and recommend any changes needed to provide more cost-effective solutions • Provide expert advice for development of proposals and plans for planning and implementation of various initiatives related to road, highways 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 	

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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

Minimum

- 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 / Defense 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 65 years of age as on 1st January 2020.
- Experience in design and construction of national highways and / or expressways
- 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 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 highway design and construction
- Excellent knowledge of latest technologies, trends and best practices in road construction
- Strong knowledge of highway design software and computer aided design and drafting
- Fluency in written and spoken English and Hindi