

# BIHAR VIKAS MISSION

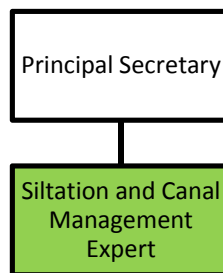
## Job Description



### 1. General Information:

<b>Position Title:</b>	<b>Siltation and Canal Management Expert</b>
<b>Reports to:</b>	<b>Principal Secretary - Water Resources 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 DPRs and manage engineering works like dams, canals, reservoirs along rivers and lakes that may be affected by erosion processes, sediment transport and deposition.
- Review existing status of siltation management in rivers/dams/canals of the State and advise the Department team on how to expedite the process of de-siltation of dams/canals for active flood protection
- Undertake field visits, site surveys, research and analysis to find innovative and sustainable solutions for minimizing the negative impacts of erosion and sedimentation on river banks, irrigation patterns, housing settlements etc.
- Strengthen the overall flood forecasting, and flood and sediment management capacity in Bihar by training concerned Department staff and enhancing their knowledge, understanding and capacity of flood, canal and sediment management
- Provide required guidance and support to concerned Department functionaries to evaluate feasibility of dams, canals and reservoirs in new geographic areas
- Conduct industry and market research and provide insights and perspective to ensure incorporation of best practices and latest trends and technologies to facilitate management decision-making
- Liaise with relevant officials in the concerned Department to develop ideas and plans to address other Departmental priorities related to canal and siltation management and undertake strategic and operational planning exercises
- Assist Department in budgeting and accounting related to canal and siltation management
- Collaborate with National and State level bodies such as National Disaster Management Authority National River Conservation Directorate, Central Water Commission etc. to facilitate appropriate siltation management, conserve water resources and prevent floods

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### 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 / Geology / Environmental Science / Environmental Engineering
- Minimum 10 years of post-qualification experience in canal and / or siltation management

### Preferred

- Less than 65 years of age as on 1st January 2020
- Experience in construction and / or retrofitting of dams / canals / reservoirs / river banks to manage the sediment they accumulate
- Proven track record of leading / managing / advising on canal and siltation management projects / programs / initiatives with state / central government / bilateral / multilateral organizations
- Master's or higher degree (full time) in Environmental Sciences / Geology / Geosciences / Earth Sciences / Water Resource Management / Civil 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 knowledge about river beds/dams/canals, erosion hazards, sediment sources and quality, stream morphology and processes, and associated habitat problems in Bihar
- Excellent knowledge of latest technologies, trends and best practices in canal and sediment management including processes such as risk assessment, numerical modelling of sedimentation and sediment sources, erosion control, sediment trapping, field construction of physical models, etc.
- Knowledge of budgeting procedures and techniques
- Fluency in written and spoken English and Hindi