

BIHAR VIKAS MISSION

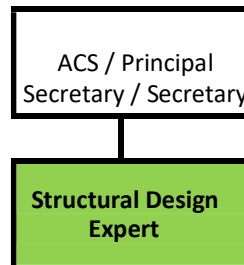
Job Description



1. General Information:

Position Title:	Structural Design Expert
Reports to:	ACS / Principal Secretary / Secretary – Building Construction Department
Department:	Bihar Vikas Mission

2. Organization Chart



3. Key Accountabilities

Strategizing and Expert Advisory

- Design a strategic plan and roadmap for execution of various construction and infrastructural development programmes to achieve the objectives under the Disaster Risk Mitigation Plan for the concerned Department
- Provide scientific knowledge and technical know-how in design and construction engineering of high-rise buildings, critical lifelines and industrial facilities etc. to increase the tenacity of these structures to withstand the impact of medium to high intensity earthquakes
- Plan and support implementation of the framework to assess the grades of damageability of the various existing buildings under different probable earthquake intensities postulated in the various seismic zones to enable informed decision making regarding the varied nature of construction works in the state
- Review and ensure that all major construction works in the state are in alignment with and duly incorporate the BIS seismic codes for construction and ensure that the plans / designs of the Government construction are in accordance with the BIS codes zone4
- Guide evaluation of the seismic and structural safety of the existing life-line buildings such as hospitals, water supply towers, fire stations, schools with a capacity of 1000 or more students, main administrative buildings etc.
- Facilitate capacity building of the Municipal bodies / Urban local bodies to ensure seismically safe construction by training of the structural Engineers in the state PWDs
- Assist in establishment of Hazard Safety Cells in each district to ensure compliance to building bye laws and safe construction practices, creation of a framework to conduct certification courses for engineers and architects
- Establish and build partnerships with important and relevant national level bodies and organizations like NDMA, NIDM, NDRF, SDMA, SDRF and SIDM, DDMA) etc. and leading private organizations to garner support for infrastructural development of disaster preparedness and risk mitigation measures.

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Job Description



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 in Civil Engineering or Structural Engineering
- Minimum 10 years of post-qualification experience in construction and / or infrastructure sector

OR

- Superannuated personnel (including VRS) from State / Central Government or any other organization under the aegis of State or Central Government with minimum 10 years of experience in construction and / or infrastructure sector (last held position should not be lower than Superintendent Engineer or equivalent level).

- Less than 65 years of age as on 1st August'2021

Preferred

- Experience in planning and implementing structural engineering programs for earthquake and disaster risk mitigation.
- Proven track record of working with State / Central Government or any other organization under the aegis of State or Central Government / bilateral / multilateral on programs of similar nature (such as IMD, NDMA, SDMA, SERC etc.)
- Master's degree or higher in Structural Engineering / Civil Engineering
- Certificates / Courses (*duration not less than 15 days*) in Seismology or Earthquake Engineering from a Government of India recognized institute
- Honors / Awards / Recognized publications in relevant area will be an added advantage

5. Knowledge and Other Skills

- In-depth knowledge of hazard environment, build environment and policy environment in terms of earthquake, its mitigation and probable impact
- Extensive field experience in disaster environments, disaster risk reduction and in-depth knowledge of related issues in the country
- High degree of technical knowledge of disaster prone developing country contexts. Knowledge of Bihar would be an advantage
- Expertise in interpreting of 2D and 3D seismic data
- Thorough knowledge of main BIS standards related to earthquake risk mitigation plans (IS 1893 (Part 1), IS 1893 (Part 4), IS 4326:1993, IS 13827:1993, IS 13828:1993, IS 13920:1993 , IS 13935:1993)
- Fluency in written and spoken English and Hindi