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| <b>ORGANIZATION</b>     | National Institute of Urban Affairs (NIUA) |
| <b>FUNCTIONAL TITLE</b> | <b>Tester</b>                              |
| <b>LOCATION</b>         | New Delhi                                  |

### **Swachh Bharat Mission-Urban (SBM-U):**

Swachh Bharat Mission-Urban (SBM-U) 2.0 aims to achieve:

- Garbage-Free cities through Sustainable Solid Waste Management
- Sustainable Sanitation and treatment of used Water
- Awareness creation and,
- Creation of institutional capacity

Building on the success of the first phase, Swachh Bharat Mission 2.0 aims to expand the efforts on several aspects related to sanitation and public health. In the past seven years of Swachh Bharat Mission, around 63 lakh individual household latrines (IHHLs) and over 6.3 lakh community toilets (CTs) and public toilets (PTs) have been built across India.

In order to sustain the Open Defecation Free (ODF) status and ensure that no slippage occurs, the Ministry of Housing and Urban Affairs (MoHUA) has introduced the ODF+ and ODF++ protocols and Water+ protocols. ODF++ protocol focuses on addressing safe containment, evacuation, transportation and processing of fecal sludge from toilets and ensuring that no untreated sludge is discharged into open drains, water bodies or open fields. Water+ protocol helps ensure that no untreated waste (used) water is discharged into the open environment or water bodies.

### **About the National Institute of Urban Affairs (NIUA):**

Established in 1976, the National Institute of Urban Affairs (NIUA) is a premier institute of the Ministry of Housing and Urban Affairs, Government of India, for research and capacity building for the urban sector in India. NIUA's broad objective is to bridge the gap between research and practice on issues related to urbanization. For more than 40 years now, NIUA has been the vanguard for contributing to and building the urban narrative for a fast-evolving urban India. The Institute has been actively working on bringing forth key areas of concern for urban India in order to build the urban discourse at various urban scales. It has utilized its competencies in research, knowledge management, policy advocacy and capacity building to address urban challenges and

continuously striving to develop sustainable, inclusive and productive urban ecosystems in the country. It has emerged as a thought leader and knowledge hub for urban development in India and is sought after by both Indian and international organizations for collaborations and partnerships in India's urban transformation journey. NIUA is committed towards aligning its efforts towards achieving Sustainable Development Goals (SDGs) through all its initiatives and programmes.

### **National Urban Digital Mission (NUDM):**

In this context, it may be noted that MoHUA has launched the National Urban Digital Mission (NUDM) in February 2021 to digitalize the urban citizen services in the country with the intent of improving transparency, governance, Ease of Living (EoL) and Ease of Doing Business (EoDB). National Institute of Urban Affairs (NIUA) has been nominated as the anchor institution for implementation of NUDM and works closely with all the States / UTs for Mission implementation. The NUDM currently anchored by the Centre for Digital Governance (CDG) Team at NIUA shall become the vehicle for activating the proposed initiative under Swachh Bharat Mission, ensuring necessary convergence of the programs/schemes for achieving positive transformation in delivery of citizen services.

To facilitate the online delivery of urban services in the States / UTs, a shared Digital Public infrastructure in the form of Urban Platform for Delivery of Online Governance - UPYOG has already been developed with ready-to-use 18 reference applications for providing Government to Citizens (G2C), Government to Business (G2B) and Government to Government (G2G) services for improving Ease of Living, Ease of Doing Business and internal efficiencies of ULBs. These 18 reference applications include Property Tax Assessment and Payment, Online Building Plan Approval System, Public Grievance Redressal, Trade License Issuance and Payment, No-Objection Certificate Issuance, Water and Sewerage Connection Management, NMAM-Compliant Municipal Accounting and Finance, Birth and Death Certificates, Miscellaneous Collections and Desludging Service, Pet Registration, Community Hall Booking, Advertisement/Hoardings, Asset Management, E-waste Management, Street Vendors Management.

The development and rollout of the proposed Integrated Service and Information Management Infrastructure for Desludging shall therefore leverage the UPYOG platform, owing to the availability of existing infrastructure.

## **Responsibilities:**

- **Test Planning & Strategy:**
  - Understand requirements, functional specifications, and business use cases.
  - Develop comprehensive test plans, test cases, and test scripts.
- **Test Execution:**
  - Perform functional, regression, integration, system, and user acceptance testing (UAT).
  - Conduct manual and/or automated testing as per project requirements.
- **Defect Management:**
  - Identify, document, and track defects using bug-tracking tools (e.g., JIRA, Bugzilla).
  - Collaborate with developers and business analysts to ensure timely resolution.
- **Automation & Tools:**
  - Design and maintain automated test scripts using tools like Selenium, TestNG, JUnit, or similar.
  - Execute automated test suites and report on results.
- **Performance & Security Testing:**
  - Conduct performance, load, and stress testing as required.
  - Support basic security testing in alignment with standards and compliance guidelines.
- **Collaboration & Reporting:**
  - Work closely with developers, business analysts, and product owners to ensure high-quality deliverables.
  - Provide regular status reports, test metrics, and risk assessments to project stakeholders.
- **Continuous Improvement:**
  - Contribute to process improvements in QA methodology.
  - Keep up-to-date with the latest testing tools, techniques, and best practices.

## **Skills, Qualifications & Experience:**

- Bachelor's degree in Computer Science, Software Engineering, or a related field (or equivalent experience).
- 3–8 years of hands-on experience in software testing (manual and automation).
- ISTQB/Certified Software Tester certification preferred (but not mandatory).
- Experience in Agile/Scrum development environments.

- Hands-on experience with test automation tools (e.g., Selenium, QTP, JMeter, Postman).

**Desired Skills:**

- Strong knowledge of software testing methodologies, SDLC, and STLC.
- Hands-on experience with test automation tools (e.g., Selenium, QTP, JMeter, Postman).
- Proficiency in writing SQL queries for data validation.
- Familiarity with API testing (REST/SOAP) using tools like Postman or SOAP UI.
- Good understanding of version control systems (Git, SVN).
- Experience in preparing test documentation (test cases, test plans, RTM, defect logs).
- Exposure to CI/CD pipelines and tools (Jenkins, GitLab CI, etc.) is a plus.
- Ability to work independently as well as in cross-functional teams
- Strong time management and multitasking abilities.
- Adaptability to work in fast-paced and dynamic environments.

**Remuneration:** Upto INR 90,000/- (approx)

**Last Date to Apply:** 13 November, 2025

**Application process:** Submit your application through the NIUA Job Portal.

***\*Note:** The final offer may vary based on the candidate's profile and performance during the selection process, subject to approval by the competent authority.*