

Job Title: Water Resource Engineer

Location:

Project: Revival & Restoration of Surface Water Bodies Nagpur

Reporting To: Project Team Leader

Organisation: Yuva Rural Association

Job Overview:

The Water Resource Engineer will lead efforts to restore and enhance local water bodies for ecological balance and sustainability. This role involves technical surveying, environmental analysis, construction oversight, and community collaboration to ensure effective restoration, monitoring, and preservation of water resources.

Key Responsibilities:

1. Site Assessment & Environmental Analysis

- Conduct waterbody boundary surveys and collect water samples for quality testing.
- Identify and assess agricultural and household pollutants, including impacts from solid waste, sewage, and runoff on the waterbody.
- Monitor observation wells monthly and report on waterbody condition over time.

2. Waterbody Maintenance & Structural Interventions

- Supervise the removal of silt, sludge, and debris, ensuring environmentally safe disposal practices.
- Identify and prepare silt disposal areas and repair embankments as needed.
- Rebuild and clear drainage paths (inlet/outlet) to ensure optimal water flow, cataloguing the number and type of repairs required.
- Oversee stone pitching and reinforcement of inlet and outlet structures for durability and erosion control.
- Suggest and design appropriate filtration chambers or treatment measures at water body inlets to manage pollutant levels.

3. Resource & Material Estimation

- Estimate necessary materials and resources for construction activities and develop a detailed materials and labour plan.
- Prepare design and construction plans for filtration chambers and other essential infrastructure as per project requirements.

4. Ecological Restoration & Plantation

- Design plantation layouts, assess suitable planting spaces, and select indigenous plant species aligned with local climate and soil conditions.
- Partner with local nurseries or government programs to source saplings and arrange for transportation to the planting site.
- Coordinate community-driven plantation events, involving HCL team members and organising local volunteers for planting drives.

5. Long-Term Maintenance & Community Engagement

- Assign responsibilities for regular watering and plant health monitoring to community members, fostering local stewardship.
- Conduct periodic assessments to determine maintenance needs such as de-silting frequency, embankment repair, and plant upkeep.

- Establish long-term goals to prevent siltation, support healthy vegetation, and ensure the sustainability of waterbody restoration efforts.

Qualifications:

- **Bachelor's Degree** in Civil Engineering, Environmental Engineering, Hydrology, or Water Resources Management is required.
- **Master's Degree** in Environmental Engineering, Water Resources Management, or Ecological Restoration is preferred for a more strategic, sustainability-focused approach.

Experience:

- **3-5 years** of experience in water resource management, ecological restoration, or civil/environmental engineering projects, ideally with field based work.
- Experience in **community based environmental initiatives, nature based solutions** and **rural waterbody restoration** is highly desirable.
- Candidates with hands-on experience in assessing water quality, pollutant impact analysis, construction planning, and community engagement will be prioritised.

Competencies:

- **Technical Expertise:** Proficiency in environmental assessments and construction project planning.
- **Analytical Skills:** Ability to identify pollutant sources, analyse ecological impact, and plan effective restoration interventions.
- **Leadership:** Capability to organise community-driven events.
- **Communication:** Strong interpersonal skills to engage with community members, volunteers, and stakeholders.

To

Send your resume to [piyush.kowe@yraindia.org, rpc.yra@gmail.com Keep in CC: directorprograms@yraindia.org , hr.yra2022@gmail.com].

Apply:

Salary: Salary will be given as per market standards and will commensurate with experience.