


<b>Community Self Reliance Centre</b>		
<b>Job Description</b>		
<b>Position:</b> Engineer (Geotechnical)	<b>Supervisor/Principal Evaluator:</b> Project Coordinator	
<b>Location:</b> Kathmandu	<b>Period:</b> November- December 2022	
<p><b>1. Purpose of the Position:</b> The position's main purpose is to support the flood-resilient housing design solution work of the organization and Durable Solutions (DS III) project by leading all the technical aspects.</p>		
<p>The Community Self-Reliance Centre (CSRC) has been campaigning for comprehensive agrarian reform and the land rights of working farmers and tillers for almost three decades. Through this time, CSRC has worked to organize and raise consciousness amongst those deprived of land rights, build public opinion in favour of progressive land reform, and conduct action research related to land and agrarian issues. It has also engaged itself in disaster governance through policy advocacy, guideline formulation and implementation of DRR projects after 2015.</p>		
<p>CSRC &amp; PIN consortium has been implementing FCDO funded pilot project <b>Durable Solutions III (DS III)</b> in Saptakoshi, Saptari and Katakariya, Rautahat district of Madhesh province from July to December 2022. The project has envisioned that landless households at risk of flood in the pilot areas will have access to government grants before, during, and after the flood (as stipulated in Land Act and DRM Act, and SSA), and the LG will have a proven tested model for facilitating durable solutions for increased resilience of at-risk landless households.</p>		
<p>The Engineer (Geotechnical) will be responsible for the flood-resilient housing design solution work in consultation with NDRRMA and Flood Resilient Housing Solution Working Group. c Support the Project Coordinator for reporting under the DS III Project and work closely with the Architect Engineer and other DS III teams of CSRC/PIN..</p>		
<p><b>A. Major Responsibilities:</b></p> <ul style="list-style-type: none"> <li>• Lead the geotechnical work for flood resilient housing design activities i.e., design, details cost estimation, geotechnical investigation, quality assurance etc.</li> <li>• Undertake desk study of locations to be assessed to gather the necessary background prior to undertaking the fieldwork before geohazard assessment.</li> <li>• Developing a strategic geotechnical site investigation plan.</li> <li>• Inspect high-risk locations to define potential engineering solutions.</li> <li>• Identity the risk type through study and find the cause of the risk, its indicators like crack, bulge and nearby stream, and its characteristics and include the appropriate mitigation measures according to the nature of the damage and location.</li> <li>• Suggest mitigation measures and identify its civil engineering prospects with proper geotechnical analysis.</li> <li>• Taking care of geological hazards while planning flood/climate resilient housing solutions.</li> <li>• Undertake identification of river training and several other control measures of the study areas.</li> <li>• Present the results of the investigations and reports to project team members in an organized, professional, and understandable format.</li> <li>• Perform work using Standard Application Programs and appropriate computer-aided design and engineering (CAD) tools</li> <li>• Prepare technical documents, including technical specifications, geotechnical data reports, and design reports following applicable design codes and other technical requirements.</li> </ul>		

- Prepare and design the structure of mitigation measures along with cost estimation to secure the settlement to better condition
- Transfer the technical knowledge to the local government technical person regarding flood management and mitigation.

### **B. Reporting and Monitoring**

- Prepare the geohazard assessment report with technical recommendations and submit it to the line manager on time. The report should be developed on a per-site basis. The summary report should generate in both English and Nepali languages.
- Sharing the field observation and final geohazard assessment report (geotechnical part) to the project team, local government, NDRRMA and Province and collecting the feedback and recommendations
- Finalize the report as per the recommendation and feedback of concerned stakeholders.
- Assist the final report preparation with technical inputs and submit it to the CSRC in English. Also, submit a summary report in the Nepali Language as per the approved geological assessment guideline of NDRRMA.
- Assist the team to share the final geo-hazard assessment presentation with the project team, local government, NDRRMA and Province.

### **C. Maintain Cross-Cutting Issues**

- Ensure the cross-cutting issues GEDSI, Good Governance, RBA, Anti-corruption, conflict transformation and others in project implementation and personal life.
- Carry out other tasks as assigned by the line manager as relevant to subjective matters.
- As a member of CSRC, contribute to overall organizational goals, objectives, and compliance standards.

### **2. Preferred Qualifications and Experiences**

- Master's Degree in Geotechnical engineering and 3 years of specific work experience in geohazard and disaster studies, or bachelor's degree in civil engineering and 5 years of specific work experience in geohazard and disaster studies in the climate resilient housing design projects will be preferred. He/she should have good knowledge of ArcGIS, python, and CAD.
- Good Knowledge of hazard/flood investigation, government guidelines, and land use map which is shared by the survey department to the local government.
- Good knowledge of Building codes for the construction of private houses
- Sound knowledge of reporting, presentation, and documentation process.