

Services

General geology

Geological mapping and logging, structural analysis, construction materials survey, petrographic study.

Mineral exploration

Exploration of economic rocks and minerals (e.g. cement-grade limestone, coals, decorative stones, ore minerals etc.), quality assessment, reserve estimation

Engineering geology

Geological and geo-technical investigations of dam, tunnel, road, buildings sites, slope stability analysis

Construction supervision and project management geophysical survey

Electrical techniques (resistivity, induced polarisation), Ground Penetration Radar (GPR), seismic refraction

Earthquake seismology

Earthquake seismological investigation, design, installation, supervision and operation of seismological and accelerometer network, processing and interpretation of seismological and accelerometer data

Environment and bio-engineering

Environmental assessment (EIA, SIA and IEE), environmental monitoring, environmental auditing, bio-engineering, land resource management

Groundwater Investigation

Aquifer mapping, well development, quality tests, arsenic test and remedial measures

Geological hazard mapping and analysis

Flood, landslide, debris flow, earthquake, GLOF, seismic hazard micro-zonation

Aerial photo study, GIS and remote sensing

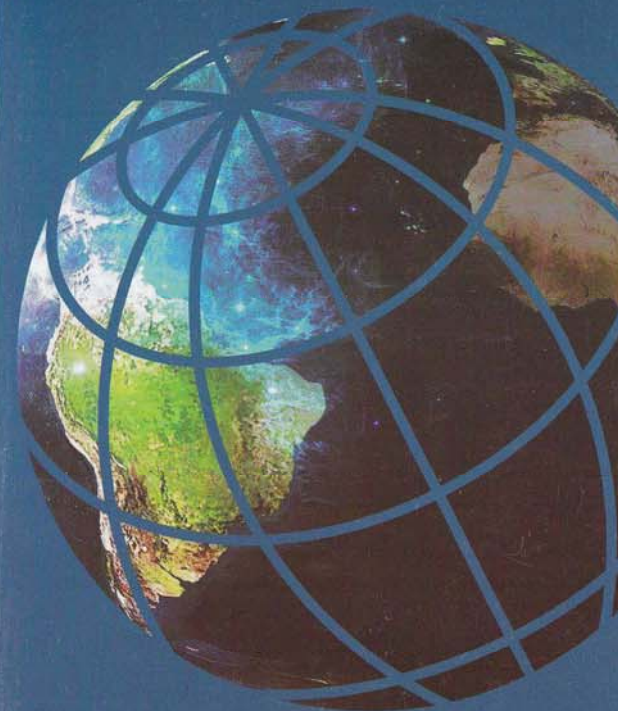
Gemstone identification and cutting training

Laboratory investigation and tests

Thin-section preparation and study, X-ray analysis, geo-technical tests of soil, rocks and construction materials

Earth science education and training

Production of educational materials, training and excursion



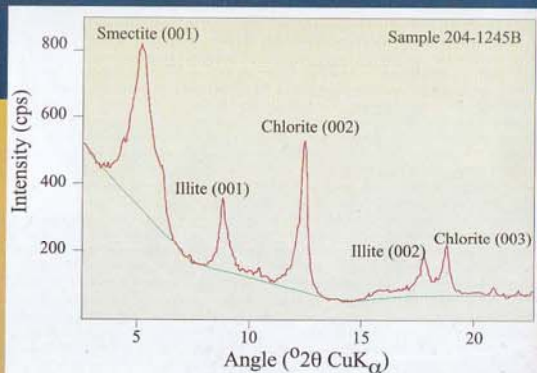
Advisers

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Background

The Himalaya is characterized by steep topography, fragile geology, intense mass-wasting, erosion, flooding, sedimentation, frequent earthquake activities and unpredictable climatic conditions etc. Infrastructure development in such an adverse geological condition is always a challenging task. Geological and geo-technical investigations and monitoring are essential at feasibility, construction and post-construction stages for successful completion, operation and maintenance of any major construction project. Besides, sustainable development of a nation depends on exploitation and proper utilization of its natural resources such as minerals, construction materials and surface and groundwaters.

Geo-scientists have important role in the identification of safe sites for construction projects as well as exploration and exploitation of natural resources for the betterment of the society and nation. It is also important to educate the society and new generation about the importance of geo-science and geological resources of the country.

Nepal is prone to many natural hazards such as earthquake, landslide, flood, GLOF and erosion. Recent research findings show that Nepal may experience strong earthquakes at any time in the future. It will have dire consequences in the densely populated cities of Nepal. Therefore, people have to be made aware of such natural calamities and proper mitigation measures should be adopted on time. Geo-scientists have greater role in identifying and managing such natural disasters.

Geo-science Innovations (P) Ltd. (GEOS) is established to provide innovative solutions for all kinds of geological and geo-technical problems faced by development and research projects. This is an organization founded and guided by well-experienced geo-scientific experts of Nepal.

Aims

The main objectives of the company are to:

- provide consulting services in the geological, geo-technical and environmental fields
- develop a professional standard in consulting services
- manage natural disasters
- carry out public awareness programmes in the field of natural disaster
- promote earth science education in school and colleges
- carry out researches in the geology of the Himalaya

Mission

Our long-term mission is to develop the company as a centre for geo-science research, training and innovative solutions for all kinds of geological and geotechnical problems.

Company Values

- Transparency
- Interdisciplinary approach
- Ethical and professional conducts
- On-time service delivery
- Quality

Consulting Experts

The company provides services through highly qualified and well-experienced scientists in their respective fields. The consultants are mainly professors from the Tribhuvan and Kathmandu Universities and retired scientists from the Department of Mines and Geology (DMG), Nepal Electricity Authority (NEA) and Groundwater Resources Development Board (GRDB). Besides, we work in collaboration with many national and international geo-science related organizations.

