

## **PROPOSED FIELD SEASON PROGRAMME 2022-23**

### **MINERAL EXPLORATION:**

1. Mapping of magnetite between Mollen Peak and Molhe Peak in Reguri-Akhen areas, Phek district.
2. G4 investigation of Limestone deposits along Lachem-Laruri road section, Phek district.
3. Identification of Coal deposits in rice field area of Upper Tiru, Mon district and geological exploration of coal deposits in western side of Molungyimsen village, Mokokchung district.

### **GEOTECHNICAL/GEO-ENGINEERING:**

1. Lithological and structural mapping of Mokokchung town and adjoining areas for geotechnical, geo-hazardous and hydrological application.
2. Installation of vertical drains at Paramedical landslides as remedial measure to assess its effectiveness in stabilizing the landslide movement.
3. Mapping and analysis of geological features and geo-engineering characteristics of rocks along NH-29 from Patkai bridge to Kukidolong bridge with reference to application of suitable techniques for mitigation.
4. Investigation of soil and rock beddings for stability test for urban development and township extension in Peren town.

### **GROUNDWATER**

1. Delineation of potential geo-structures for exploratory drilling and construction of observation wells/exploratory wells in gap areas of Phek, Wokha, Peren.
2. Identification and construction of artificial recharge structures through roof-top rain water harvesting and injection to sick wells in Dimapur.
3. Groundwater quality assessment studies and Installation of Iron removal plant in high Fe contaminated groundwater areas.
4. Construction & development of 8 nos of exploratory wells in gap areas of Dimapur, Kohima, Zunheboto.
5. Awareness campaign on artificial recharge and judicious use of groundwater
6. Monitoring of wells under NHNS
7. Feasibility studies for construction of tube wells.

**GEOTOURISM:**

1. Geological study and identification of important sites for geotourism and its prospects in Mokokchung and Tuensang districts.

**MINOR MINERAL:**

1. Identification and data collection of all illegal mining of minor minerals being carried out along the N.H + S.H and other mining areas in Dimapur, Kohima, Wokha, Mokokchung and Mon Districts.
2. To undertake geomorphological studies such as; place of origin, catchment area, general profile of river, stream, annual deposition and replenishments of sand and gravels.
3. Conduct of public awareness campaign on scientific and systematic mining under statutory provisions of NMMCR, 2004 and good environment management practices.
4. Survey and mapping of Chathe and Dhansiri rivers for identification of areas suitable for mining and area to be prohibited for mining.
5. Investigation of clay deposit in Dimapur and find out its uses for commercial viability.
6. Grant of mining leases and preparation of scientific mining plan based on geological investigation report for those registered mining Leases/Licenses.
7. To conduct survey and undertake regulation of all quarries, mining, brick earth extractions, stone crushers, etc., in Dimapur and Kohima Districts.
8. G4 assessment of sand, gravel and boulder deposits from Lephi to Koru sectors at stretch of about 28 kms along Doyang river course in Wokha district.