



Instituto do Petróleo e Geologia – Instituto Público (IPG)

Geo-Hazard Division

Term of Reference

GIP

(Specialize in Earthquake and Seismicity)

1. Goals

- 1.1 The GIP member of the Division of Geohazard should help to maintain manage and disseminate the information regarding the geological risks, the hydrogeology and engineering geology; should help in the implementation of GIS and databases to develop the geohazard information of Timor Leste.
- 1.2 Involve in working in the field, identifying and examining geological formation, studying data, conducting geological surveys and constructing field maps related with earthquake;
- 1.3 Assist in establishment of the historical earthquakes data in computer.

2. Specific Tasks

- 2.1 Assist in monitoring earthquake event for 24/7 through the earthquake monitoring system and proceed the monitoring result base on the SOP to the National Directorate for Meteorology and Geophysics (DNMG) for further dissemination as an early warning;
- 2.2 Involve in Study earthquakes and related phenomena in Timor Leste Island;
- 2.3 Participate in Investigation and interpretation of the geological composition and the structures composition of the earth, how the earthquakes propagate related with Timor Leste Island; evaluate the potential dangers and seek to minimize their impact through the improvement of construction standards;
- 2.4 Participate and assist in Collecting and studies historical seismic data related with earthquakes and earthquakes faults;
- 2.5 Demonstrate an understanding of structural geology and tectonics in Timor Leste in particular related with earthquake occurrence;
- 2.6 Using ArcGIS or any others software to modeling the earthquake and seismicity in area of occurrence or in Timor Leste Region;
- 2.7 Participate in the process of establishment of seismometer in Timor Leste, using seismograph to collect and assess data to record the vibrations of the Earth;
- 2.8 Observe seismology and earthquake hazard in the field;

3. General Tasks

- 3.1 Participate in collecting of information on geological risk situations, emerging situations and proposed activities for the remediation of problems of engineering geology in Timor Leste;
- 3.2 Participate in the activities of geological mapping in relation to geological hazards, hydrogeology and engineering geology;
- 3.3 Maintain himself up to date through active participation in short courses, workshops and other activities of self-development;
- 3.4 Develop all activities according to the daily, weekly, monthly and annual work plans defined and ensure the regular functioning of the division;
- 3.5 Carry out any other duties as directed by the officer, manager, senior management or Head of Division.

4. Performance indicators

- 4.1 Report of all information about earthquake and seismicity around the Timor Leste Island;
- 4.2 Individual report of daily, weekly, and monthly activities with assistance of the officer t to the Manager or to the Director;
- 4.3 The performance indicators should be set semestral in agreement with the division head and aligned with the IPG internal policy.