



Instituto do Petróleo e Geologia – Instituto Público (IPG)

Geo-Hazard Division

Term of Reference

GIP

(Hydrogeology)

1. Goals

- 1.1 The GIP member of the Division of Geological Risks should help to maintain manage and disseminate the information regarding the geological risks, the hydrogeology and engineering geology; must help in the implementation of GIS and databases related to the geological areas activity.
- 1.2 Assist in establishing the hydrology map for Timor Leste territory;
- 1.3 Assist in ensuring the safe, sustainable and environmentally sound management of natural and domestic water resources

2. Tasks

- 2.1 Actively involved in applying a knowledge of fundamental geology to develop an understanding of how the rock types and structure in an area impact on groundwater occurrence and movement
- 2.2 Involve in working environment with specifically designed computer modeling packages, hydrological and statistical techniques to assess the most effective methods of managing available water in a particular area;
- 2.3 Involve in study water from lakes, streams, rivers, oceans, and other above ground water sources of national territory;
- 2.4 Participate in the investigation related with quality, and quantity of the groundwater;
- 2.5 Study the relationship between water on the earth's surface and the water in the atmosphere, including the water cycle;
- 2.6 Using the surface and underground data to make an interpretation for water resource in the area of study;
- 2.7 Participate in Investigating factors affecting acidity, nitrate levels or other diffuse pollution of surface water;
- 2.8 Actively participate in developing computer systems to improve the efficiency of data collection and analysis;

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 Participate in all activities according to the daily, weekly, monthly and annual work plans defined and ensure the regular functioning of the division;
- 3.5 Participate in carrying out any other duties as directed by Director of Division.

4. Performance indicators

- 4.1 Actively involved to report of all information about ground water and surface water around the Timor Leste Island;
- 4.2 Individual report of daily, weekly, and monthly result to the Manager or Director of Division;
- 4.3 The performance indicators should be set semester in agreement with the division head and aligned with the IPG internal policy.