




**Instituto do Petróleo e Geologia – Instituto Público
(IPG)**

**REQUEST FOR QUOTATION
Supply of Module License
(Lifetime License for SIGMA Module)**

Public procurement procedure under Decree Law No.10/2005, of November 21, on the Provisioning Judicial Regime (PJR), as amended, and Decree-Law no. 12/2005, on the Legal Regime of Public Contracts, of 21 November, for the **Supply of Module License (Lifetime License SIGMA Module)** for the Institute of Petroleum and Geology, IP.

Please provide your quotation for the **Supply of Module License (Lifetime License for SIGMA Module)** should be submitted to the Instituto do Petróleo e Geologia – Instituto Público (IPG), Rua Aimutin, Dili, Timor-Leste **17:00 OTL, 14 June 2022.**

RFQ NAME	Supply of Module License (Lifetime License for SIGMA Module)	RFQ: 015/IPG/2022
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No	Description	Quantity (Unit)	Unit Price	Total Price
1	Supply of Module License (Lifetime License SIGMA Module)	1		
			TOTAL	
Delivery period <i>(to be completed by suppliers)</i>				
Final Delivery destination			Instituto do Petróleo e Geologia – Instituto Público (IPG), Rua Aimutin, Dili, Timor-Leste or outside IPG office if requested.	
Warranty Period <i>(To be completed by suppliers)</i>				
Quotation/Proposal validity period			30 days	
Manufacturers Authorization			Required	
Performance Security			Not Required	
 <p align="center">Gabriel G. A. de Oliveira President of IPG 06 June 2022</p>			<p align="center">(sign & stamp) Vendor's Authorized Officer</p> <p>Date:</p>	
We certify that we comply with eligibility requirements of instructions to vendors clauses 2ª to 2d. (Overleaf). If our offer is accepted, we undertake (a) to deliver goods & services in accordance with our offer above (b) to abide by this proposal for the Validity Period stated above.				

Rua : Delta I, Aimutin, Comoro
Dili, Timor Leste
Telp. (670) 3310-179
Website: www.ipg.tl



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The Evaluation Criteria for the Quotation will be as follows:

A. Administration Requirements

- Valid and Legalized Certificate of Debt / *Certidão Dívidas Validu no Legalizado.*
- Valid and Legalized Certificate of Commerce / *Certidão de Negócio Validu no Legalizado.*
- Legalized To Whom It May Concern / *Para Quem é Interessado Legalizado.*
- TIN;
- Bank Statement / Balance Sheet / *Extratu da Conta Bankaria;*
- Electoral ID from the company owner / *Cartão Eleitoral husi na'in ba Companhia;*

B. Analyze and Price Comparison

- Price Comparison will be based to LEAST COST SELECTION (LCS)

Please attached the factory brochure and the specification sheet.



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Instruction to Vendors

1. **Scope**
 - a. The purchaser is the Instituto do Petróleo e Geologia – Instituto Público (IPG), Rua Aimutin, Comoro, Dili, Timor-Leste.
 - b. This request for proposal applies to the **Supply of Module License (Lifetime License for SIGMA Module)**.
2. **Vendor Eligibility – The vendor's firm must**

Be a bona fide business unit known by the Purchaser to be suitably qualified, experienced and financial resourced:

 - a. Profile Company include Valid Business Registration, Valid Certificate of Debt / Dívidas, TIN, Bank Statement and copy of contract for similar work with government and agencies client).
 - b. Must be registered as Vendor in Timor-Leste Ministry of Finance free balance System.
3. **Responding to the Request for Quotation / Proposal**
 - a. The Vendor shall verify the description and specification of all items.
 - b. The vendor shall enter unit prices, extended prices and total price on the Request for Quotation / Proposal form.
 - c. The Vendor shall verify its agreement with stated provisions for proposal validity, delivery period, warranty period, manufacturer's authorization and performance security. All variations from stated conditions shall be explained in a covering letter.
4. **Quotation / Proposal Price**
 - a. All prices should be quoted in US Dollars.
 - b. Prices shall be fixed for the duration of the specified period for delivery.
 - c. Unless otherwise stated, the proposal shall be for the fully quantity stated on the Request for Proposal.
5. **Proposal Submission**
 - a. Suppliers may submit more than one proposal, provided these are for substantively different goods/services meeting the same description or specification.
 - b. Proposal should be in sealed envelope that submitted to the **Instituto do Petróleo e Geologia – Instituto Público (IPG), Procurement Unit, Rua Aimutin Comoro, Dili**, no later than the specified time and date.
 - c. The procurement service reserve the right to retain and open late proposal if the number of proposal received is less than three.
 - d. The language shall be: **English or Tetum**.
 - e. The result of the proposal evaluation shall be advised, denoting the successful vendor and unsuccessful vendors.
6. **Proposal Evaluation and Contract Award**
 - a. Proposal shall be evaluated to establish substantial responsiveness to eligibility requirements, technical description/specification, quantity and commercial conditions.
 - b. Upon performing verification and arithmetic correction, quotations which identified as responsive substantially will be re-evaluated to choose the lowest price, which will be the basis for awarding the contract.
 - c. Award notification shall be effected through the issuance of a Purchase Order by the Purchaser.
 - d. The vendor shall confirm acceptance of the Purchase Order by email or by taking the Order in Original.
 - e. Notwithstanding the above, the Purchaser reserves the right to accept or reject any proposal, or to cancel the proposal process at any time prior to award.



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7. Performance Security

- a. If a Performance Security is required, the Purchaser shall issue a Letter of Acceptance which shall serve as notification of award.
- b. The vendor shall provide a Performance Security within seven days, in the amount specified in the Request for Quotation / Proposal.

For notices the Purchaser's address shall be:

Instituto do Petróleo e Geologia – Instituto Público (IPG)

Rua. Delta 1, Aimutin, Comoro, Dili, Timor-Leste

City / Country: Dili, Timor-Leste

Electronic mail address: hfrcitas@ipg.tl

8. Payment

Payment shall be made in following manner:

- a. Payments shall be executed only if the selected supplier has fulfilled all its contractual obligations by the date on which the invoice is submitted.
- b. Payment will be made within 30 days after the completion of the service and received the invoice.
- c. The currency for payment shall be: **US Dollars only.**

9. Corrupt & Fraudulent Practices

The purchaser requires that Vendors observe the highest standards of ethics during the procurement and execution of RDTL government contracts, to the extent that corrupt, fraudulent, collusive and coercive practices and conflict of interest occurring in proposal, delivery and completion processes may result in disqualification, termination of purchase order and penal sanctions.

Specification of Lifetime License for SIGMA Module

gempa

SIGMA



SIGMA in a nutshell

The new SIGMA module provides Seismic Intensity and Ground Motion Analysis. Supporting FDSNWS it can run independent of SeisComP. PS(A) and MMI maps are generated based on ground motion prediction equations (GMPE). Finite ruptures are modeled by an interactive generator and an aftershock heat map. GMPE's can be added as C++ or Python plugins supporting OpenQuake. SIGMA considers site effects through Vs3D information. The strong motion analysis calculates engineering seismology parameters and compares them with the GMPE-based values. All information is stored in a SQL database. Strong motion parameters, event information, rupture parameters, waveform data and map plots can be exported for further processing and report generation.

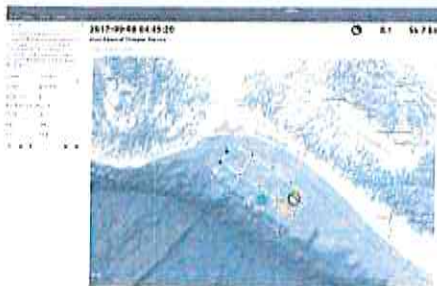
FEATURES

- Interface to SeisComP and FDSNWS
- Automatic and interactive SM data processing
- MMI and (P)SA maps
- Open source C++ and Python plugins
- Interface to the OpenQuake hazard library
- Earthquake engineering parameters:
 - PGA/PGV/PGD
 - Arias and characteristic intensities: Ia and Ic
 - Cumulative absolute velocity: CAV
 - Energy density: SED
 - Mean and dominant period: Tm, Tp



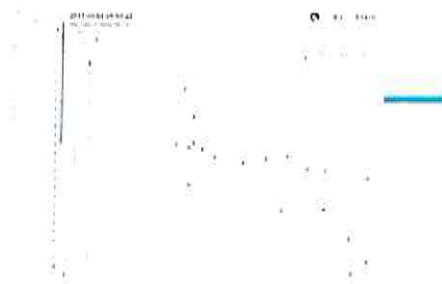
Ground Shaking Maps

SIGMA calculates peak ground acceleration (PSA) and velocity (PSV) and MMI maps applying ground motion prediction equations (GMPE). Customized GMPE's can be implemented either as C++ or Python plugins. The OpenQuake seismic hazard analysis framework is supported by a Python plugin providing GMPEs for regions world-wide. Using the global Vs30 of USGS grid and station specific information, site effects are considered.



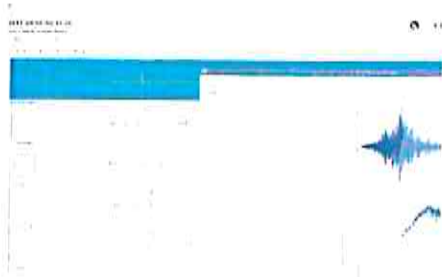
Rupture Modeling

Aftershocks occurring within the first hours after the main shock indicate the rupture area of the main shock. To visualize the aftershock distribution an aftershock heatmap can be activated. Ruptur parameters as patch length, width, number and strike, dip, rake allows an automatic rupture generation, patches can be optimized manually. The depth can be adjusted and all rupture information can be finally saved in a DB.



GMPE Comparison Plots

The plot perspective allows a comparison of PGA, PGV, PGD values of GMPE-based calculations and measurements. Multiple GMPE's can be activated as shown in colored lines and the RMS for each GMPE is calculated simplifying the selection of the best matching GMPE. The jumps in the GMPE curves are caused by simulated site effects using station specific Vs30, Z1PT0 and Z2PT5. For station sites the velocity parameters are configurable.



Strong Motion Analysis

The trace perspective provides a semi-automatic waveform processing. Waveforms are retrieved through typical SelsComP sources including FDSN web services. PGA, PGV, PGD, 5% and 95% Arias intensity values and additional common strong motion parameters are determined. Zooming, sorting and processing of individual time window can be applied. The single trace window supports processing with customized parameters.