

# REQUEST OF PROPOSAL FOR EXPRESSION OF INTEREST – AIR DRILLING FOR SIX (6) WELLS

## Introduction

LaGEO S.A. de C.V. (LAGEO) a power production company of El Salvador is in the final stages of negotiating a loan with the World Bank (P170089 – financial identifier of the project within the World Bank) to increase the generation of electrical energy based on the geothermal resources available in the country. The scope of the project consists of the construction and commissioning of two condensing geothermal plants, one to be installed in the Chinameca geothermal field in eastern El Salvador with a generation capacity of 25 MW and the other to be placed in the San Vicente geothermal field in central El Salvador with a generation capacity of 10 MW.

As part of the overall project, additional geothermal wells will be drilled in addition to existing ones that require air drilling services. The objective of this expression of interest request is to understand the market for the specific requirement of air drilling services and establish communication with interested companies, who will subsequently be informed about the tender process and invited to participate in it.

## Project Description

### *Chinameca Geothermal Field*

The Chinameca geothermal field is located 130 km east of San Salvador, the capital city of El Salvador, in the department of San Miguel, within the Pacayal-Limbo volcanic complex. The towns of Chinameca and Nueva Guadalupe, both located to the north of the geothermal field. The project includes drilling of six (6) production and reinjection geothermal wells in which the use of aerated fluids is required to reduce water consumption during the drilling of the final stage of the well.

### Scope of the requested service

The provision of supplies, personnel and “know-how” for drilling with aerated fluids using the “Under Balanced Drilling” method of six (6) geothermal production and reinjection wells of commercial diameter. LAGEO will supply the necessary pumping equipment.

- **Personnel availability:** Personnel must be available full time during the period drilled with aerated fluids.
- **Required supplies:** Elastomer for rotating head part, Foam barrels, Antifoam and Corrosion inhibitor (CR0-195) or similar.
- **Technical personnel for supervision:** Compressor Package Supervisor, Compressor Operator and “Under balanced drilling” Engineer.

- **Work shifts:** 12-hour shifts for the Supervisor and Operator, and 24-hour availability for the “Under Balanced Drilling” Engineer.
- **Staff experience:** 10 years for Supervisor and Engineer, 5 for Technician, in similar services.
- **Language of the personnel in charge of the work:** Spanish (desirable) or English.

The interested companies will also have to consider all logistics of personnel in charge of including bed and board, transportation, occupational safety and hygiene according to current LAGEO regulations.

LAGEO has appropriate tools, equipment and accessories for air drilling, such as: screw compressors, Triplex pump, fuel tanks, pipes and connection accessories, among others (LAGEO will share the list and details of these equipment in due course). The contractor will be responsible for diagnosing the mechanical condition of the equipment, then, and if he detects that he needs additional equipment, these must be included in the offer, providing the information of the same and the rental cost.

The international public bidding process is planned to be carried out in 2021 and that air drilling services will be required during the years 2021-2022.

#### **Reply letter content.**

When submitting your reply letter, you must also attach duly completed with the information requested in the form attached to this request for expression of interest.

#### **Interested company overview.**

The overview of the company, corporation or consortium that is sought is of a company that is a provisioner of supplies and services for aerated drilling in geothermal wells, with proven experience and technical knowledge. With an economic and financial solvency, logistics capacity in the loading, handling, and unloading of heavy equipment, as well as the safe handling of the aforementioned equipment.

#### **Additional reference information.**

The reply to this letter of expression by the interested parties can be presented in Spanish or English. The envelope must be labeled designating "Letter of Expression of Interest for Air Drilling Services in the Chinameca geothermal field – EoI (Expression of Interest)" and must be sent to the following postal address (or sent by email) no later than February 21 of 2021.

**LAGEO S.A. de C.V.**  
**Final 15 Avenida Sur y Blvd. Sur, Colonia Utila, Santa Tecla**  
**La Libertad, El Salvador.**  
**Telephone: +503-22116700**  
**e-mail: [compras@lageo.com.sv](mailto:compras@lageo.com.sv)**

<b>Company:</b>						
<b>Address:</b>						
<b>Contact:</b>						
<b>Item</b>	<b>Description</b>	<b>Company name</b>	<b>Geothermal Field</b>	<b>Country</b>	<b>Contract Amount (US\$)</b>	<b>Reference Contact</b>
<b>A</b>	<b>Air Drilling Services</b>					
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