



## MARKET STUDY ON IMPROVEMENTS TO THE GATUN DAM

- 1) **DESCRIPTION:** The Panama Canal Authority (ACP) has identified the need to conduct improvements to the Gatun Dam, located in the province of Colon. For this, the ACP is preparing the documents related to these works. Consequently, the ACP wants to know the interest of construction companies in carrying out these works. The improvement works include the activities of unclassified excavation, grout injection to seal drilling wells, rockfill construction, filter/drain system at the base of the dam, erosion control, and installation of geotechnical instrumentation.
- 2) **SCOPE OF WORK:** As follows is a description of the activities comprising the improvements for a better understanding of the scope.
  - a) **Environmental Impact Study.** Prepare the Environmental Impact Study in its area of influence, including borrowing sites, in accordance with the Republic of Panama regulations and ACP standards.
  - b) **Dewatering System.** Includes all the work for the design and construction of a drainage and drawdown system to control the groundwater level and surface water during earthworks, including geotechnical monitoring of operations and associated temporary structures.
  - c) **Clearing UXO Areas.** The work includes site characterization and destruction of all UXOs found on the site in an area exceeding 8 hectares.
  - d) **Clearing and Grubbing.** Includes clearing and grubbing of the surface material, and preparation of the area as needed to conduct the work. Includes the hauling of the material resulting from the clearing and grubbing to the designated disposal site. The cleaning includes the removal of the top 0.75 m of the soil layer. The work covers an area exceeding 20 hectares.
  - e) **Unclassified Excavation.** It consists of all the work necessary to excavate the unclassified material and bring the area to the final required levels. It must include the hauling of excess or unsatisfactory material to the designated disposal site, dikes construction, and the corresponding drainage works. Excavation volume exceeding 350,000 m<sup>3</sup>.
  - f) **Filter and Drain System.** Supply and install a filter/drain system of granular material, including geosynthetics. Filter/drain volume exceeding 80,000 m<sup>3</sup>.
  - g) **Rockfill.** Supply and install a rockfill. The work includes the hauling from the borrowing site to the jobsite. Rockfill volume exceeding 1,000,000 m<sup>3</sup>.
  - h) **Fill Material Type 3.** Supply, install, and compact fill material to the required design levels. It includes hauling from the borrow site to the jobsite. Fill volume exceeding 10,000 m<sup>3</sup>.



- i) **Erosion Control.** Includes the supply and installation of a temporary erosion control blanket in designated areas with hydroseeding. The work includes carrying out hydroseeding maintenance for the duration of the Contract. Area to be covered exceeding 75,000 m<sup>2</sup>.
  - j) **Silt fences.** Supply and installation of silt fences (type 1 and 2). Linear meters of silt fence exceeding 3,000 m.
  - k) **Geosynthetics.** Supply and install geosynthetics (biaxial geogrid, uniaxial geogrid, woven and unwoven geotextile, and geosynthetic cementitious composite mat). Square meters of geosynthetics exceeding 1,000,000 m<sup>2</sup>.
  - l) **Drilling of grout holes.** Prepare and drill grouting holes for grout injections. Drilling work exceeding 100 linear meters.
  - m) **Grouting types 1, 2 y 3.** Grouting works of cementitious, foam-forming chemical grout, gel-forming chemical grout, and cementitious-bentonite slurries. Injection volume exceeding 2,000 kg.
  - n) **Grouted riprap.** Supply and install grouted riprap, including the rock in the specified areas of the designated disposal site. Square meters of rip rap exceeding 100 m<sup>2</sup>.
  - o) **Geotechnical Instrumentation.** Supply and install an automated geotechnical instrumentation system (piezometers and inclinometers) and settlement plates. Instrumentation comprised more than 100 settlement plates and 30 multilevel piezometers and inclinometers.
- 3) **MARKET STUDY PARTICIPATION:** Any company interested in participating in this market study must submit from the date of publication of this market study and before the closing date, see paragraph 5 (*General Terms*), a formal written notification to ACP indicating their interest, along with the documents requested in paragraph 4 (*Experience Record*).
- 4) **EXPERIENCE RECORD:** To participate in this market study, the company must submit evidence that demonstrates its experience and performance, together with the formal notification required in paragraph 3 (*Participation in the market study*):
- a) The company will present its experience in rockfill construction projects with a filter/drain system, comprising a minimum total fill volume of 500,000 m<sup>3</sup>. The company must indicate whether its participation in the project was as Main Contractor or as part of a Joint Venture, Association, or Consortium.
  - b) The experience will be presented in a list or table, including at least the following:



PROJECT No. _____					
Project's Name	Start and end dates	Project Description (including material volume)	Client name / Project's owner	Contract Value (USD)	Points of contact for the client/ project's owner (name, phone number and email)

5) **GENERAL TERMS:**

- a) **Deadline:** Due to time constraints, those interested must ensure that all the information requested through this application is delivered before May 15, 2022. The information must be sent via email to the point of contact indicated in paragraph d (*Point of Contact*).
- b) **Reserved Information:** Please note that this process is strictly confidential and the information provided by this means, as well as any other exchange of information, must be treated in the same way. For this reason, the participants must handle all the information provided in a strictly confidential manner; implement adequate security measures to prevent this information from being disclosed; do not deliver or make public the information under reserve; keep and consider all confidential information as the property of the ACP; and keep this information in a safe place. All information pertinent to the Gatun Earth dam and other complementary structures of the ACP is classified as reserved information. The availability of reserved information is subject to the signing of a confidentiality agreement.
- c) Additionally, no portion of the information contained in this document or other documents produced as a result of the exchanges between both parties should be considered as an acceptance or evaluation by the ACP of documents required for future contracts, nor should they create award expectations. Any future process that the ACP issues related to this or other studies will be formally announced at the appropriate time.
- d) **Point of Contact:** Any clarification regarding the market study should contact directly Mr. Daniel Muschett, email: [DaMuschett@pancanal.com](mailto:DaMuschett@pancanal.com).

**END OF DOCUMENT**