

Medellín, January 16, 2015

## **TICSA, a subsidiary of EPM, will carry out in Mexico a water reuse project for PEMEX and COMAPA worth USD 45 million**

- **This cooperation project between PEMEX, COMAPA and TICSA represents a valuable milestone in environmental care and water reuse**
  - **TICSA is the leading company in water treatment solutions in Mexico**

Through agreement subscribed between PEMEX Madero Refinery and COMAPA (Tampico's Water Management Entity), TICSA, a subsidiary of EPM, will be in charge of building and operating the works to provide treated waste water to PEMEX Refinación in Ciudad Madero, a project worth USD 45 million.

In this regard, EPM's Chief Executive Officer and leader of EPM Group, Juan Esteban Calle Restrepo, indicated that "besides being a big contribution to EPM Group by subsidiary TICSA, this is the first cooperation project between the economic group and Petróleos Mexicanos, a goal that has been sought for a long time given the leading position occupied by Petróleos Mexicanos in Latin America.

Mr. Calle Restrepo added that "it is one of the most important water reuse projects both for Mexico and for EPM Group; it will permit the conglomerate to keep on working in benefit of sustainability through the generation of new reuse projects".

In the refining and petro-chemical industry, the separation of the components of oil is carried out through several processes at high temperatures. Cooling towers that are continuously supplied with quality water are used to decrease stream temperatures.

Accordingly, PEMEX Refinación proposed to consider the waste water of the cities of Tampico and Madero as potential water-supply source, which adequately treated could be reused to mitigate the primary-use water demands in the refinery's cooling towers.

The project to be carried out by TICSA consists of taking 600 liters of additional waste water per second from the Guatemala emissary to the Tierra Negra Waste Water Treatment Plant (PTAR for its Spanish initials).

As explained by TICSA's President, Federico Jaramillo Londoño, waste water will be initially biologically treated; subsequently, filtered water will be sent to PEMEX through a 12-km duct.



According to Mr. Jaramillo Londoño another treatment plant will be built inside PEMEX's facilities where the ultra-filtration and reverse osmosis processes will be carried out. This will permit delivery to PEMEX of 400 liters per second of filtered water to be used in the cooling towers and 200 liters per second of reverse-osmosis water for the boilers.

The Francisco I Madero refinery is located on the left bank of the Panuco River, close to the river's mouth in the Gulf of Mexico, in Ciudad Madero municipality, Tamaulipas, from where it derives its name.

With this project PEMEX seeks to prevent and control environmental pollution, to preserve natural resources and to rationalize the use of water ever more.

## About TICSA

Tecnología Intercontinental (TICSA) is a company engaged in the design, construction, operation and commissioning of waste water treatment plants.

With more than 20 years of experience, TICSA, a subsidiary of EPM Group, has developed more than 200 residential, industrial and municipal waste water treatment plants.

It currently operates ten municipal PTARs and is building three more projects to achieve total treatment capacity of over ten cubic meters per second (i.e., 10,000 liters per second) of served water.

---

## Information for journalists EPM Group's Corporate Communications

Vice Presidency of Communications and Corporate Relations

Juan José García Villegas | (574) 380 65 62 | 301 733 71 24

[juan.garcia.villegas@epm.com.co](mailto:juan.garcia.villegas@epm.com.co)

## Visit our Press Room

Historic register of newsletters, news, audios, videos, and image and document bank in our website: <http://www.epm.com.co/site/Home/Saladeprensa.aspx>