



Background

Guizhou province is located in the Southwest of China, a multinational region on the high plateau. These years the economy of Guiyang, the capital city of Guizhou province develops fast, as a result, the urban expansion is on the high way. The industry wastewater water and sewage increase remarkably, which makes the existed treating facilities impossible to meet the requirement. At present, the Guiyang Authority Bureau is trying to construct the urban Wastewater Treatment System. Guiyang Baiyun STP is designed to have the treating capacity of 80000m³/d. The client regards the WWTP as an important project which should last for one hundred years, so, they refer to the world class in the project construction, management and the key products selecting.

The General Contractor is the Degremont Co., Ltd, who is responsible for the whole project construction and products procurement. In the designing phase, the Design Institute follows the traditional mode for screen designing, in which one set of coarse screen and one set of fine screen are used to protect the pumps and the following equipments. This kind of convention needs two sets of screening transporting system and two control systems, while they need more area, inconvenient for the maintenance and management.

Customer: Guiyang Authority and Degremont





Solution

Headworks Liberator 2 in 1 Bar Screen is the breakthrough to the tradition. We put the only one set of screens before pumps. That is perfect to complete the task of the previous two. It has all stainless steel, heavy duty, roller chain, effectively removing the large debris and the logs, timber, meanwhile, it has the outstanding performance in removing the fine solid to further protect the following process and equipments. The bar spacing of MS can reach 4mm, and it can be made as long as 20-30m to fit the deep channels. The specially designed tapered bar can ameliorate the hydraulic condition to increase the water passing capacity with less head loss. Handling the same amount of wastewater we design narrower channel than others, which occupies less area. Front clean, front rotate, multi rakes, vary speed make Liberate Bar Screen capable to handle the peak flow.

After several times of technical communication with the client, design institute and Degremond, each side realized the advantages of Liberator Bar Screen and the value it brings with. Finally we installed two MS Bar Screens successfully in the STP, and with the safeguard of the 2 in 1 screen, the STP saves a lot in all kinds of equipment maintenance. The outstanding performance of the MS Bar Screen plays an important role in making whole treating process runs steadily.