

Natural Hot Spring, Sungai Klah Perak

Natural hot springs are a common occurrence in Peninsular Malaysia. This phenomenon occurs when water that seeps into the Earth is heated by magma; molten rock located beneath the surface of the Earth. The Earth's pressure then causes the water to rise again above the surface, forming a natural hot spring. Sg. Klah's hot spring has been around for a long time, owned by FELDA and has always been used as hot spring facility for FELDA'S employees. In the year 2007, FELDA decided to upgrade and open this hot spring to the public. And Grundfos was a total Solution Provider for all pumping needs.

TOPIC:
Natural Hot Spring, Sungai Klah
Perak

LOCATION:
Malaysia

COMPANY:
Grundfos Pumps Sdn Bhd

PRELIMINARY STAGE

At the preliminary stage, it was decided to use 3 units of NB pumps to operate the main water feature for the cold water pool. Next was a Hydro Mini MS 2 X CH8-40 for water supply and pressure boosting for the bathrooms/changing rooms.

SECONDARY STAGE

As the daily number of visitors/tourists increases progressively, FELDA decided to build Hotels and resort facilities to accommodate those who wish to spend an extended period of time there. The 1st hotel comprise of 3 four-story blocks, each consisting of 8 rooms. 3 units of Uni-E CH12-30 were used for tank to tank water transfer, from ground floor to roof top reservoir tank. And 4 units of Uni-E CH4-50 were used for individual room pressure boosting per building. So in total 3 units of Uni-E CH12-30 and 12 units of Uni-E CH4-50 were installed as a solution for this stage.

WATER SUPPLY

Five pump rooms were built, each with an individual water storage tank to store and deliver the water from the natural hot springs to the individual units in the resort. The pump rooms are all inter-linked and each room is separately equipped with 1 unit of Compact-E 2 x CH4-50.

In total 5 units of Compact-E 2 x CH4-50 were ordered and 4 units were installed in order to implement the solution for the resort.

JACUZZI & BATHROOM PRESSURE BOOSTING

Each accommodation unit of the resort comprise of 3 bathrooms and its own Jacuzzi pool. In order to deliver the promise to all resorts guest, one unit of Swimming Pool Pump model SB30 and Wave V-Series Pool Filter model V450 were installed in respect of each Jacuzzi pool. Each unit is also equipped with 1 unit of Uni-E CH4-50 for pressure boosting.

In total 13 units of SB30, V450 and Uni-E CH4-50 were installed in order to ensure that the guests would have uninterrupted quality enjoyment of the Jacuzzi and bathing facilities.

PUMPS SUPPLIED

- 1 set Hydro Mini MS 2 x CH8-40
- 5 sets Compact E 2 X CH4-50
- 13 units WAVE pump SB30
- 13 units WAVE filter V450
- 13 units UNI E CH4-50
- 3 units UNI E CH12-30

THE OUTCOME

The management of FELDA and the Contractor are both very pleased and satisfied with the solutions proposed as well as the products recommended. In this instance, Grundfos had fulfilled and in fact surpassed all the requirements (and expectations) laid down by FELDA. This is shown both in the solution proposed, the products recommended as well as the prompt response and efficient implementation of this particular project.

The key success factor of this project is work closely with contractor and dealer and provides the right solutions.

Additional Images

