

Underpass Rainwater Drainage Jakarta

Application market	Industry
Market segment	Flood Control
Pumped medium	Rainwater with Mud and Sludge
Pump product	Submersible
Country	Indonesia



Challenge

In the past, several underpasses in Indonesia's capital Jakarta were regularly flooded due to heavy rainfall. In order to solve this problem, the city built pumping stations at these locations to collect the rainwater. A reliable pump solution was required for emptying the collection basins and returning the rainwater, which is partly mixed with mud and sludge from the surrounding area, to the municipal drainage system.

Solution

For the underpasses at six different locations in the city, a total of twelve Hidrostal Screw Centrifugal Submersible Motor Pumps with large free passage and high hydraulic efficiency are used to empty the collection basins.

Benefits

The task could be solved satisfactorily:

- No more flooded underpasses since the rainwater pumping stations were put into operation
- Non-clogging and therefore reliable pump operation using the Hidrostal Screw Centrifugal Pump

Quantity of units sold	12
Pump type	E08M-SLN + EN014X4
Motor data	13 kW / 4 pole / 50 Hz / 400 V
Material combination	Cast iron pump body and wear parts with nodular iron impeller
Duty point	Flow: 100 litres per second / Head: 10 meters
In operation since	2010