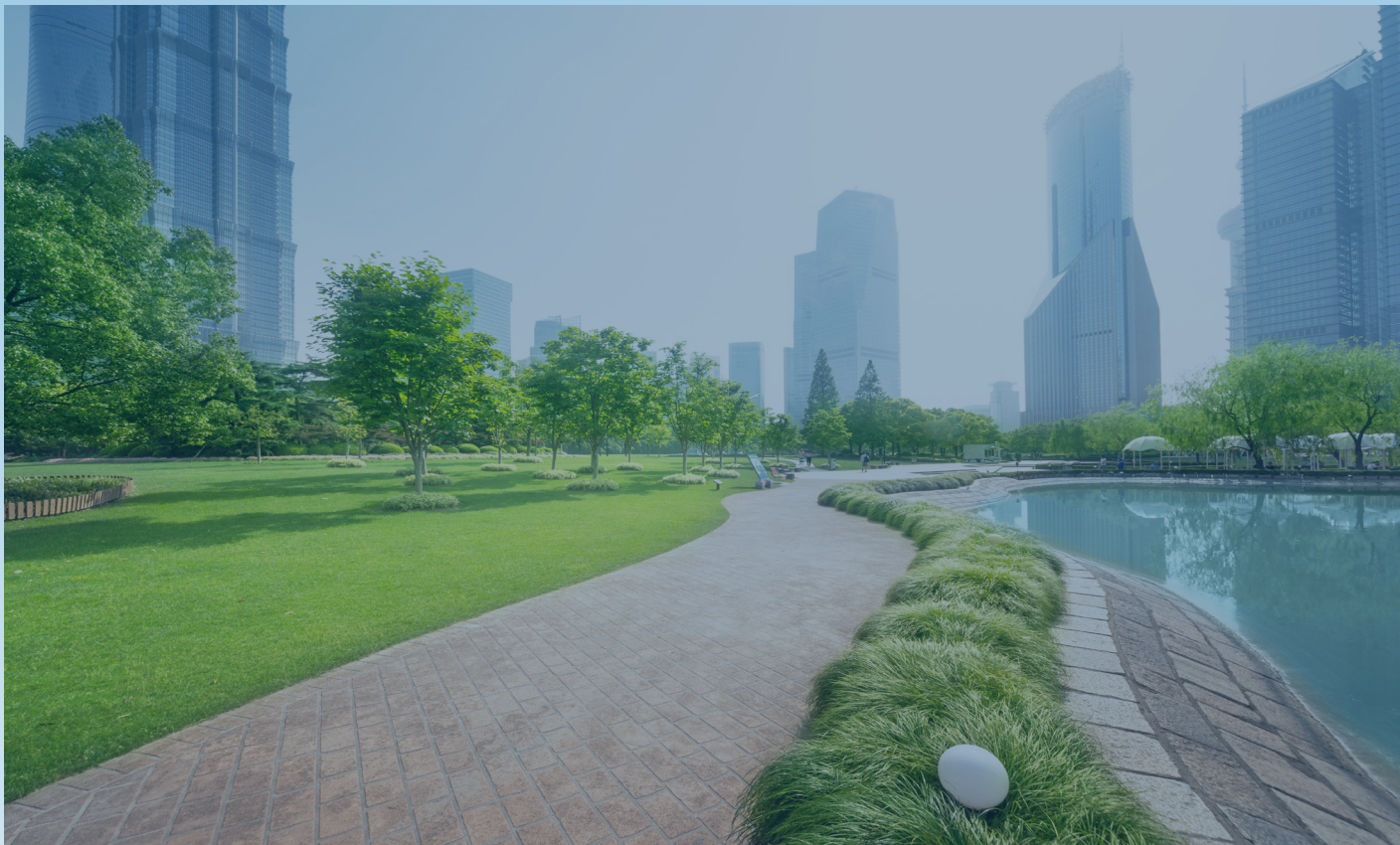


# GRUNDFOS PUMPS MANAGE FLOODING IN TECH PARKS



## THE SITUATION

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Global warming has increased the occurrences of natural calamities, adversely affecting the life of mankind in recent years. Urban flooding, a new acronym is taking shape due to rapid urbanisation in metro cities resulting in inundation of commercial buildings, which in turn is bringing businesses to a standstill whenever it rains!

An IT park in the southern part of Chennai was built on a terrain surrounded by marshlands making it vulnerable to flooding and water-logging during the southern monsoons. The campus had a well laid off network of trenches or canals to carry the run-off to the nearest waterbody. But that was not enough. During the period of severe inundation, the campus required a new design of a comprehensive run-off management plan.

## THE SOLUTION

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A detailed analysis of site topography was made by Grundfos technical support team to locate the dewatering pumping stations. As a result of the study, 5 vantage points were chosen within the campus for installing dewatering pumps to pump out floodwater and ensure that the building's inundation is under control.

The topography of open land in the campus posed a huge challenge, as it allowed all the construction debris and waste of all types to get mixed with floodwater. This site constraint necessitated the need for pumps, that can accommodate large particles to pass through without clogging.

Grundfos S-pump with channel impeller was the right choice. With a particle size of 145 mm, the pump can take any debris at ease without choking while pumping.

### PUMP SPECIFICATIONS:

**Flow** : Upto 92 litres/sec  
**Head** : 7 to 12 meters  
**kW** : 17 kW

#### Unique Features

- Particle handling size: Upto 145mm
- SmartTrim Impeller

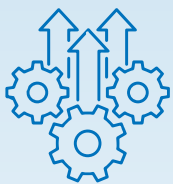


Note: This is a typical installation.

### THE OUTCOME

Grundfos submersible S-range with unique design and features is a perfect fit for run-off management. The pumps with over 3 lakh litres per hour pumping capacity which could easily handle particles upto 145mm without clogging, made life easy for the IT park and thus saving the assets from inundation during monsoons.

### BENEFITS OF GRUNDFOS SUBMERSIBLE S-PUMPS



#### MAXIMUM EFFICIENCY

Advanced technology makes the Grundfos pumps extremely efficient and highly dependable. Innovative features, one such as SmartTrim adjustment of the impeller clearance ensures long-term high pump efficiency and low life-cycle costs.



#### LESS DOWNTIME

The inherent non-clogging design of Grundfos channel impeller and its excellent solids handling capability guarantees maximum uptime and substantial reduction in service costs.



#### MAXIMUM RELIABILITY

The Grundfos wastewater pumps are of a well proven design that ensures life-long reliability even under the most difficult operation conditions.

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