

The CSE building: its green attributes

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Green/cool roofs

The building employs a combination of 'green roof' and 'cool roof' techniques. Green roof or vegetative roof gardens serve several purposes, such as absorbing rainwater, providing insulation, creating a habitat for wildlife, decreasing stress of the people around by providing a more aesthetically pleasing landscape, and helping lower urban air temperatures and mitigate the heat island effect. A cool roof or white-washed roof reflects off the sun, thereby reducing indoor temperatures and energy demand for cooling.

Solid waste composting

Food waste from the canteen along with other organic waste from the campus is composted on-site. Leftover cooked food is used to make effective micro-organism (EM) solution for composting, which is in turn used to compost the kitchen waste (raw/uncooked vegetables). Manure thus produced supplements the gardening needs of the campus.

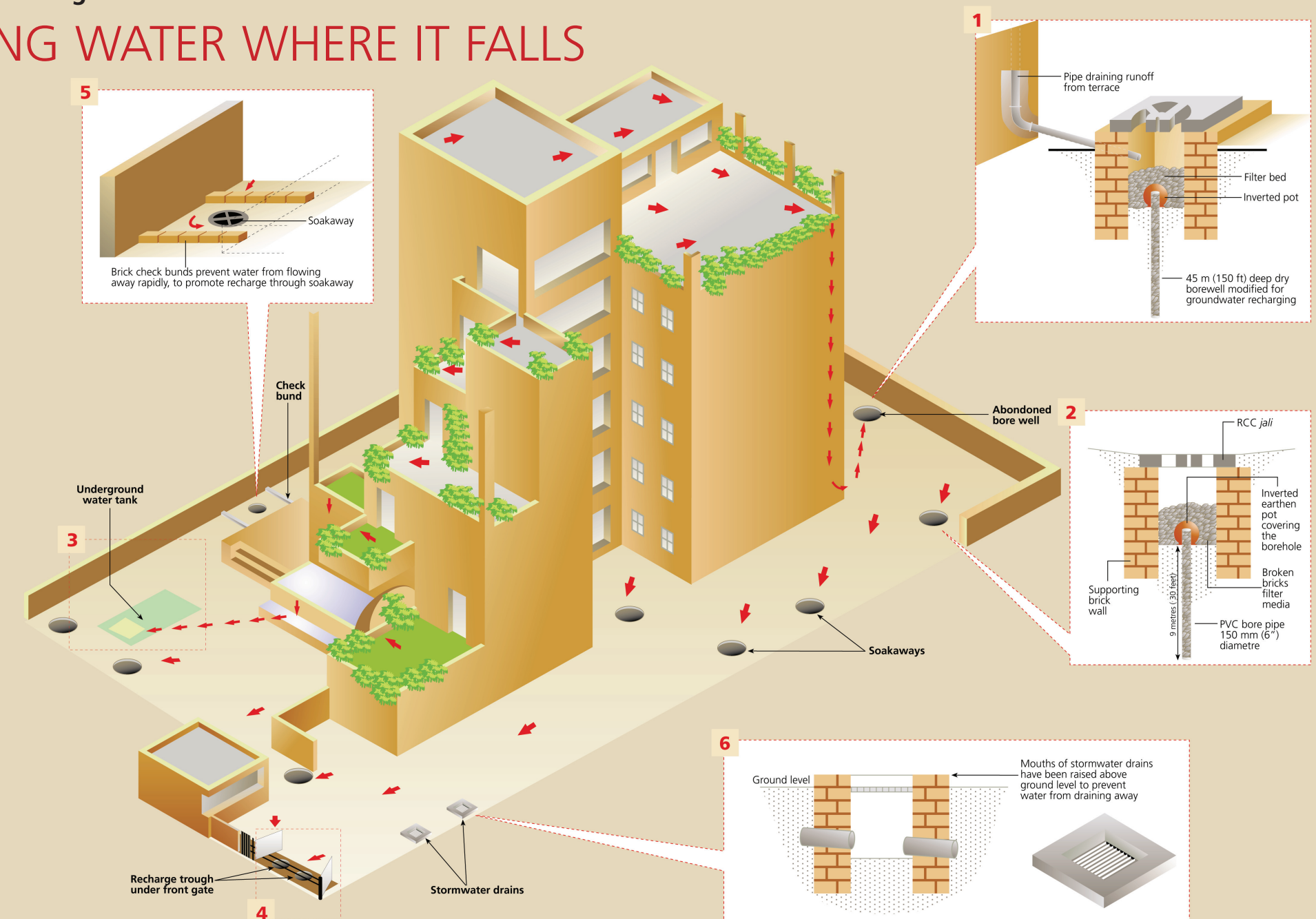
Orientation

The CSE building is orientated and designed keeping in mind the movement of the sun and the local climate. Most of the workstations are placed at the northern end of the building reducing their direct exposure to the sun. Toilets and staircase lobbies serve as buffers from the hotter southern facade which helps reduce the energy needs to cool the workstations. Sun-shades for the windows are also designed based on their orientation in order to maximise daylighting and cut down the glare.



Rainwater harvesting

CATCHING WATER WHERE IT FALLS



Decentralised wastewater treatment

REINVENT, RECYCLE, REUSE

