

PROJECT REPORT
ON
DESIGN EFFICIENT FLUSHING SYSTEM IN COMMUNE
TOILET

(Sponsored by KSCST)

Submitted in partial fulfillment of the requirements for award of degree of the

Bachelor of Engineering
In
Civil Engineering
Of
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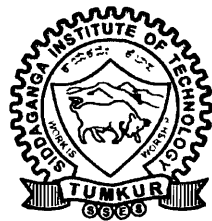
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ABSTRACT

Conservation of water is one of the important task in the present day due to scarcity in the availability of water. Water closets use large quantity of water for flushing the wastes. Here an attempt is made to reduce the quantity of water used for flushing by vortex action in the bend tube connecting commode and drainage system.

Water from the tank is supplied a pipe branching into two branch pipes. The first branch pipe supplies water to flush the inner surface of the commode.

The second part of the branch pipe is connected tangentially to bent tube between commode and drainage pipe. Discharging the water tangentially in this tube cause circulatory flow. This circulatory flow results in forced vortex. The vacuum or low pressure created at the centre of the vortex sucks the waste in the commode and flushing in the drain pipe. The quantity of water used for both action is around 3.0-3.5ltrs instead of 6.0-6.5ltrs of water used in regular commode flushing. Due to this modification there is reduction to the extent of 50% in the quantity of water required for flushing compared to normal commode.