

# Automated Toilet Cleaner with Minimal Cleaning Resources

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**Abstract:** Technologies are increasing day, and at the same time our major task is cleanliness. From this paper we spread the message of hygiene and cleanliness of our surrounding. We need to maintain the hygiene or cleanliness in public place or toilets. In cities government provides many facilities to make our surrounding clean. This paper is helpful to keep the India clean called as "Swachh Bharat". In this system, we are targeting only on, how to maintain the hygiene in washrooms, and observing to the workers activities and also stopping the public to use the dirty washrooms. This paper is alerting to public about hygiene, and to keeping the surrounding clean. In our nation, sanitation has always been a major issue. Most significantly, this issue is not just concentrated to the rural areas but is also wide spread in urban and semi urban areas. People do not show the same level of concern when it comes to keeping the public sanitation systems clean as they show towards the ones at their homes. Right to good health and sanitation is one of the goals to be achieved as per the Millennium Development Goals of the United Nations Organisation, 2000.

However in India, the scenario of public toilets is still dismal. One of the reasons for this is that the people do not bother to clean up after they use the toilet. These places are thus the breeding grounds of bacterial germs like *Escherichia coli* and many deadly diseases. Many people sometime prefer discomfort to using these toilets.

Looking at such troubles, the decision to construct a self cleaning toilet was made that simply utilizes the weight of the person using it as its working mechanism. The system consists of a platform supported on springs and the lever arrangement that flushes after use. The lever is pivoted in such a way that it will lower itself when weight is applied downward and when the load is released, this will strike the flush and hence in this way water is flushed out to clean the toilet. So, our main intention of this paper is safe, hygiene and disease free washrooms.

**Keywords:** Microcontroller, IR sensor, LCD, GSM module, Odor sensor, IOT