



NATIONAL SECOND - MECHANICAL

Wrapper picker

Diptanshu Malviya and Mukul Malviya
Sirohi, Rajasthan

The two young brothers have developed a motorized device, which picks up littered pieces of wrappers, papers, pouches, etc and collects them in a storage bin.

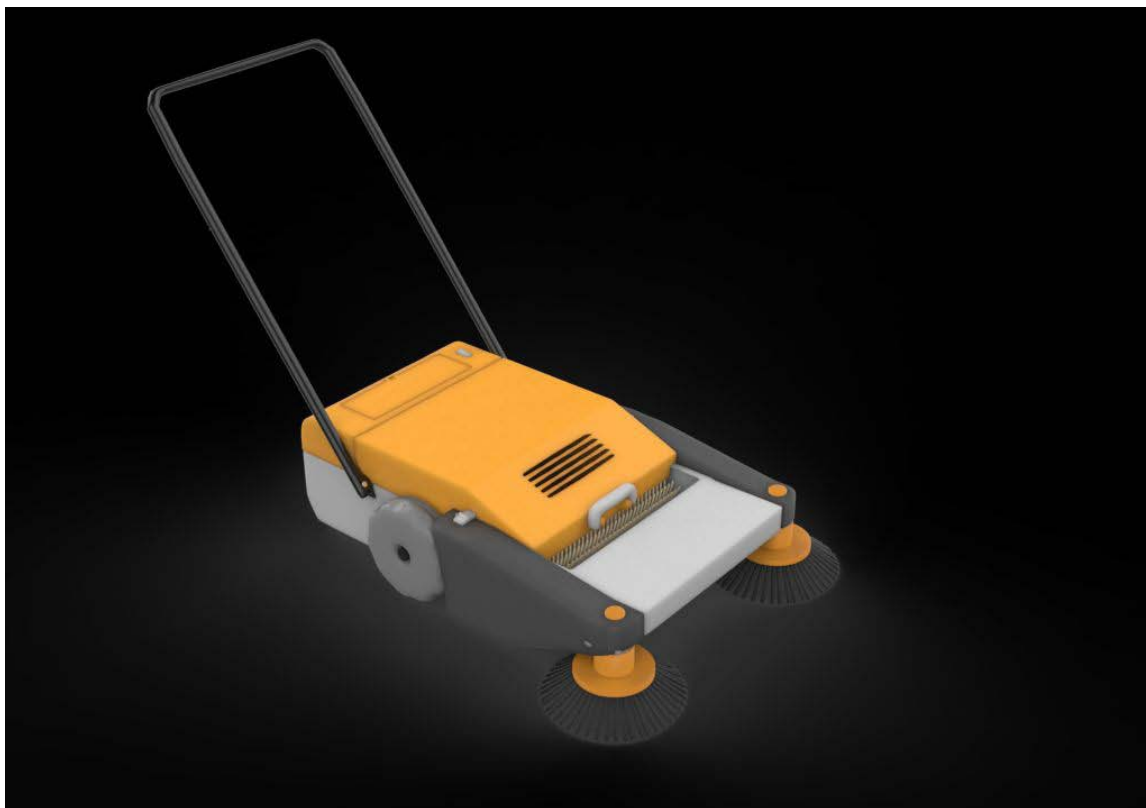
Snacking is something, which most of us like to indulge in. Wafers, chocolates, biscuits, fruit cake, water pouches, etc. are consumed and their wrappers strewn around. These have to be later picked up manually, which is laborious and time consuming. Presently there are no machines available in the market to do this task automatically. Mukul and Diptanshu thought about this device when they saw a sweeper picking up waste pouches, pieces of paper, and empty wafer packets littered across a bus station. They realised how difficult it must be for him to bend every time to pick up such

pieces and came up with this device.

The machine is very simple, easy to operate and maintain and is very useful for sanitation workers. It has great potential for diffusion by Municipalities, Municipal Corporations, Town area Committees *etc.* and is an ideal technology for adoption to fulfill the objectives of the “Swachh Bharat Abhiyaan”. NIF got developed an improved model of the same with the help of designers.

With keen interest in science, both the brothers participate in a lot of science competitions and exhibitions. Diptanshu likes reading biographies of scientists and inventors and wants to serve ISRO when he grows up. His brother, Mukul also has similar interests and wants to become an engineer. They were also





selected for Rashtrapati Bhavan's Innovation Scholar in Residence program in 2015 for their wrapper picker.