



3 things that define us:

- Cleantech
- Responsible & Mature
- Committed to the environment

About Spruce Up:

We are a cutting-edge hardware technology manufacturing start-up, we design & manufacture **Jatayu Machines** which are Made for India and Made in India. We are disrupting the technological landscape of machines which will clean the cities and villages of India.

“We are here to make an impact and change the world.”

We manufacture completely indigenous products with proprietary design. All the features and technologies of the product have been designed after heavy R&D and the product represents the frontier of world technology. We are a world-class premium quality Original Equipment Manufacturer and our products reflect that in their design and valuation.

Jatayu Machines are bringing change and supercharging the **Swachh Bharat Mission**, and in its endeavor to take the product to the masses, Spruce Up has been supported and appreciated by **Secretary Shri Durga Shanker Mishra** and has also received support **from PMO and the Joint Secretary of Swachh Bharat Mission**.

Jatayu machines provide an **effective solution** to clean up litter across diverse Indian conditions - wet/dry waste; in rural/urban areas; in summer/monsoon. Its **low cost** enables businessmen to own and operate a Swachhata Business, where they can provide cleaning as a service, to deploy these machines, and creating mass employment across India. It provides sanitation workers with a **clean and hygienic way of doing their job**, giving them the opportunity to uplift their skills and live a healthy life.



#startupindia



Problem:

Over 377 million urban people live in 7,935 towns and cities and generate 62 million tonnes of municipal solid waste per annum of which 43 million tonnes (MT) of the waste is collected, the other 19 million tonnes end up dumped on the street. That is without considering the natural waste (trees, dust, decaying vegetation), litter thrown by people traveling in vehicles, pedestrians, domestic or commercial garbage which is generally swept or thrown out of private premises instead of being placed in the suitable container meant for the purpose.

While dealing with the garbage the sanitation workers are being directly exposed to varieties of risk causing materials including dust, toxins, bio-hazardous substances, exhaust pollution, such that they are vulnerable to certain occupational diseases. exposure can lead to musculoskeletal disorders, respiratory problems, dermatological problems, allergies, bronchitis, hearing disorder, malaria, typhoid, and many others.

Manual handling of waste is **prohibited as per SWM Rules, 2016.**

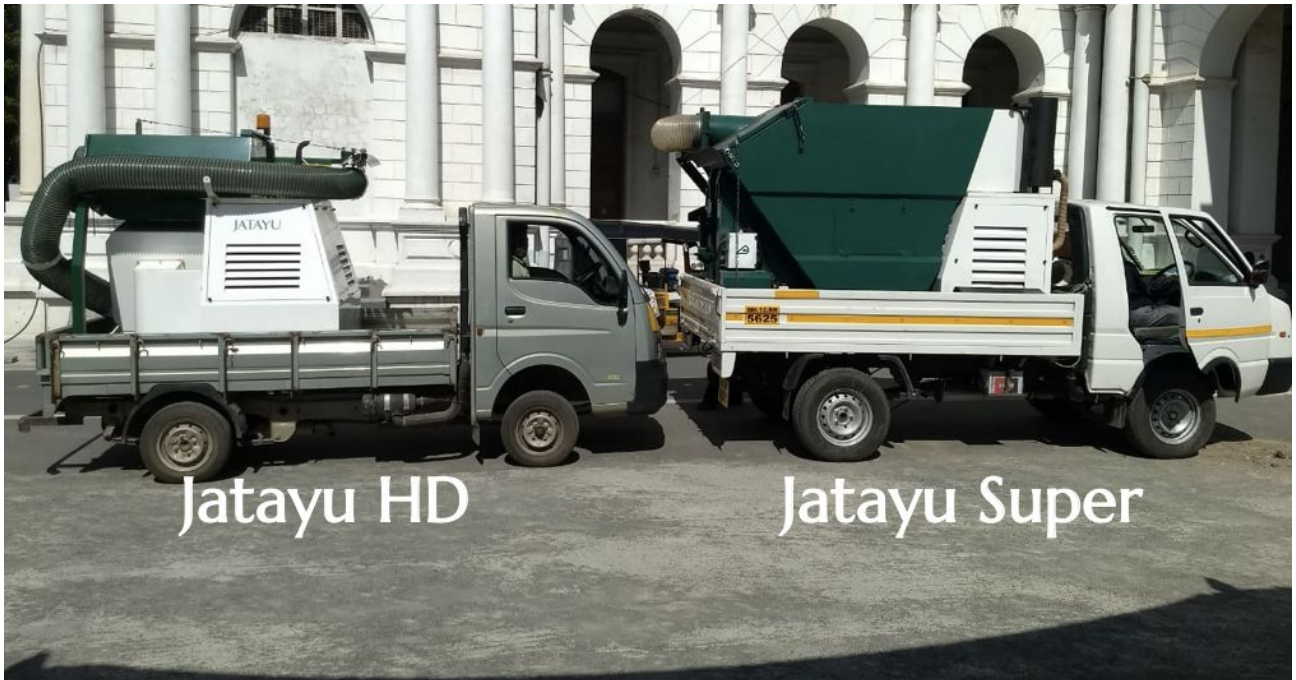
“We still manually handle garbage”.



To put this in perspective, a study was conducted by Madras Medical College and found that 69% of the city's sweepers suffer from multiple health problems and it was observed that the health problems were due to occupational hazards.

The COVID-19 pandemic has revealed the fact that manual handling of garbage has to end. Jatayu Machines have **contactless technology** that can enable our sanitation workers with **zero manual handling** of garbage right from the point of collection to the point of transfer/dumping.

Our Products:



Recommended by MOHUA (Ministry of Housing and Urban Affairs):


Ministry of Housing and Urban Affairs
Government of India

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EAST DELHI MUNICIPAL CORPORATION

- For the disinfection process, two disinfectant pumps and 4 “Jatayu” litter pickers put in use.
- Jatayu works on the principle of vacuum and helps minimise human contact with waste.
- Special vacuum machines used to ensure minimum human contact while clearing the garbage.

Jatayu Super:

Jatayu Super is made over 3 years, with 10,000 hours of field data, 10 prototypes, inputs from 10 cities with over 10,000 manhours of design work. **Jatayu Machines** are bringing change and supercharging the **Swachh Bharat Mission**.

Jatayu Super is India's **only true contactless garbage collection** machine.



What can be achieved with Jatayu Super:

Effective cleaning:

India's first & only complete contactless heavy garbage collection machine run with 1 Driver, 1 Operator which can handle several tons of garbage and disinfect it safely. Designed & Developed for India. Up to 2 tons of waste can be collected in a single shift with only **one driver and one operator**.

Hygienic (Zero Manual Handling):

Jatayu Super is the pioneer in contactless technology. Zero manual handling of garbage is achieved right from the point of picking up garbage to point of garbage transfer/dumping.

Disinfection of garbage:

Garbage can be disinfected, collected without contact, disinfect the collection point, and disinfect frequently touched surfaces on the streets.

Key technologies:

Helio boom (Patent pending technology) enables **contactless** picking up of litter and cover more ground (Boom length and height can be adjusted).

Super high dump TM has large capacity(1.5 cubic meters) ensuring long hours of operation and the hydraulics enable the **contactless** transfer of waste.

Disinfecting mechanism (Super Sanitize), with our onboard disinfection mechanism garbage, can be disinfected before collection, garbage collection points can be disinfected after picking up and frequently touched surfaces on the streets can also be disinfected. (Machine comes with a disinfectant lance attachment)

SU-Super connect is the integrated telematics system that comes with the Jatayu Super. Machine location is tracked through mobile/computer, remote machine health monitoring to get real-time alerts and notifications. Regular operations can be carried out with **minimal supervision**.



*Reduced visible litter, **disinfection**, and collection of garbage, effective cleaning, and enhanced hygiene for sanitation workers (**Zero Manual Handling of garbage**) are achieved with Jatayu Super.*

Jatayu HD:

Two years, Fifty product models and 20000 man-hours of hard work later Spruce Up Industries Pvt. Ltd. has successfully created a low cost, Made in India portable cleaning machine – **Jatayu HD**.

Jatayu HD, the Ultimate Swachhata Machine, is a portable street cleaning machine that can be mounted on vehicles to clean up cities and towns of India.



Jatayu's **immense suction power** can lift coconuts, glass, bottles, leaves, litter - even under monsoon conditions. Collection capacity is no problem since Jatayu collects everything in quick-change reusable bags. 1 bag is 0.3 cu.m capacity and 10 bags is 3 cu.m capacity.

- **High CFM:** Jatayu's **immense suction power of 2900 CFM** can lift coconuts, glass, bottles, leaves, medical waste, food waste, clothes, cans, shoes, etc., it can handle all types of litter.
- **Long Hose:** Hose length, 18ft; Diameter, 8in; Ground clearance with Boom height, 8ft
- **Picks up everything:** Handles both dry and wet garbage of up to 500 liters.
- **Ezee Bags:** Re-Usable Ezee Garbage Bag is a 500 Litre capacity and takes 45 sec to change
- **Contactless fan technology:** Garbage never comes in contact with the Fan. Keeps machine running without choking.
- **Multi-car compatibility:** The machine is designed in a way that can be installed on any car in the segment which meets the payload requirements.



Machine Applications:



Footpath Cleaning



Blackspots & vulnerable dumping spots



Slum Area



Market Waste



Abandoned Plots



Lakes/Canals & Nalas embankment



Overflowing dumping bins



Road/ Highway Embankment

Clients:

15K Total hours
Jatayu machines have cumulatively been run for over 15,000 hours!

90 Number of machines
Currently 90 machines operated daily across India

9 Number of States
Jatayu machines are currently operational across 9 states in India.