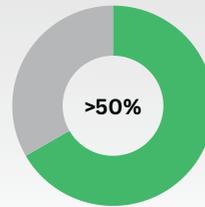


CHAKR DeSmog

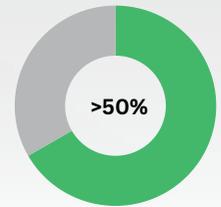
SMART DUST SUPPRESSION FOR A CLEANER TOMORROW



Built for environmental needs, the **Chakr** DeSmog creates cleaner, safer work environments through automated, low-water-consumption dust particulate suppression, reducing pollution and supporting sustainable urban growth



Improvement in Viisibility



Reduction in Dust

MAJOR CHALLENGES

RISING POLLUTION CONCERN

Increasing PM_{2.5} & PM₁₀ levels in cities due to construction and industrial activities

SEASONAL IMPACT

Air quality worsens during winters, reaching hazardous levels

IMPACT ON PUBLIC HEALTH

Prolonged exposure to PM_{2.5} can lead to serious respiratory and lung problems

ENVIRONMENTAL DEGRADATION

Uncontrolled dust harms soil, water, and biodiversity

OPERATIONAL GAPS

Lack of automation leads to inconsistent performance and high manpower dependency

MANUAL LIMITATIONS

Manual sprinkling and water tankers waste resources and provide uneven coverage

Air Pollution is Responsible for



39%
of stroke
deaths



20%
of diabetes
deaths



38%
of ischemic heart
disease deaths



67%
of COPD
deaths



31%
of lower- respiratory
infection deaths



38%
of lung cancer
deaths



33%
of neonatal
deaths

SMART DESIGN. EFFICIENT CONTROL. SIGNIFICANT IMPACT.



Spray Distance
Covers 70–100 meters, ensuring wide dust suppression coverage.

Droplet Size
Creates fine mist droplets that capture PM_{2.5} and PM₁₀ effectively.

Auto Controls
Fully automated, 320° swing, adjustable tilt ensures complete directional coverage.

Water Pump
High-pressure pump ensures uniform mist and reduced water consumption.

Safety & Control
Timer, limit switches, and overload protection ensure safe, reliable automation.

Mobility Options
Trailer mounted with pneumatic tyres includes tank.

Defense | Govt & PSU



Hospitality



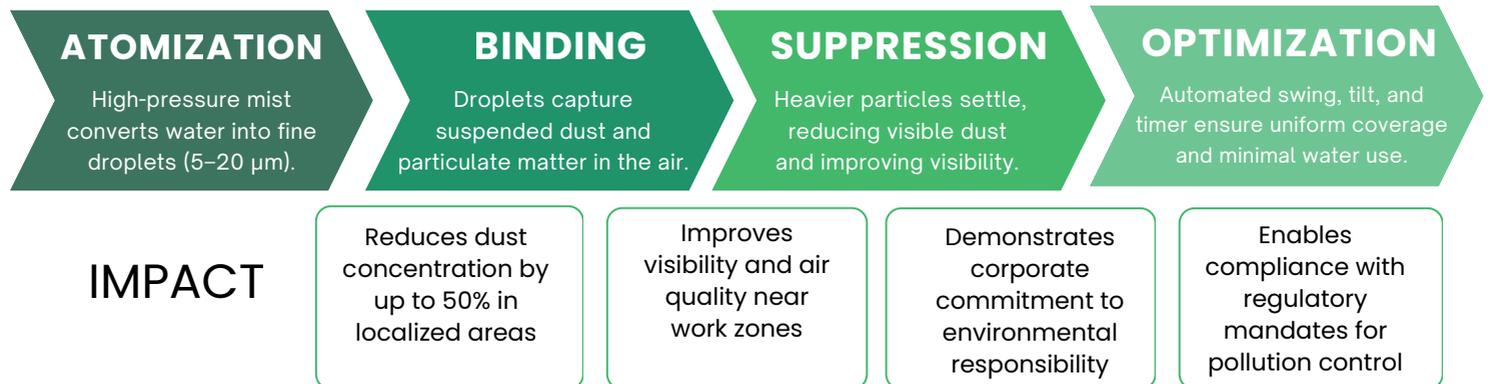
Infrastructure



CHAKR DeSmog: ENGINEERED TO BREATHE EASY.

The **Chakr** DeSmog transforms water into a **fine mist** that collides with airborne dust particles and brings them down, significantly improving local air quality. Engineered for **Indian conditions**, it meets **CAQM and DPCC** guidelines— ideal for construction sites, industrial plants, high-rises, and smart cities.

HOW IT WORKS



Chakr Innovation Pvt. Ltd.
Materializing a Cleaner Reality
Mob: +91 83051 74070, 96670 17998
Email: marketing@chakr.in
Web: www.chakr.in



SCAN TO KNOW MORE