Limber Robotic Arm System for Effective Cleaning

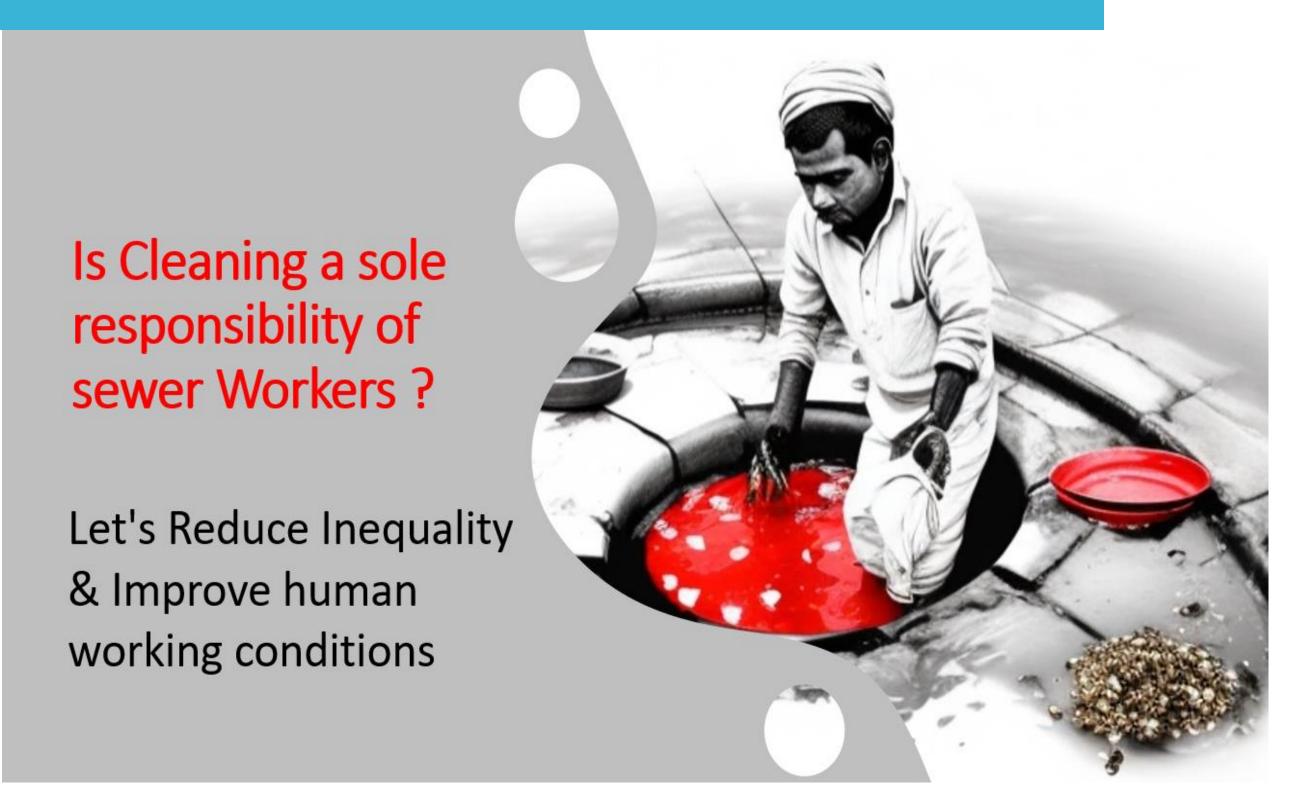
Shubham Vishvakerma, Navin Sharma, Deependra Dubey, Rahul Vishvakerma Arc robotics - Driblet Pvt. Ltd Indore Madhya Pradesh, 452010

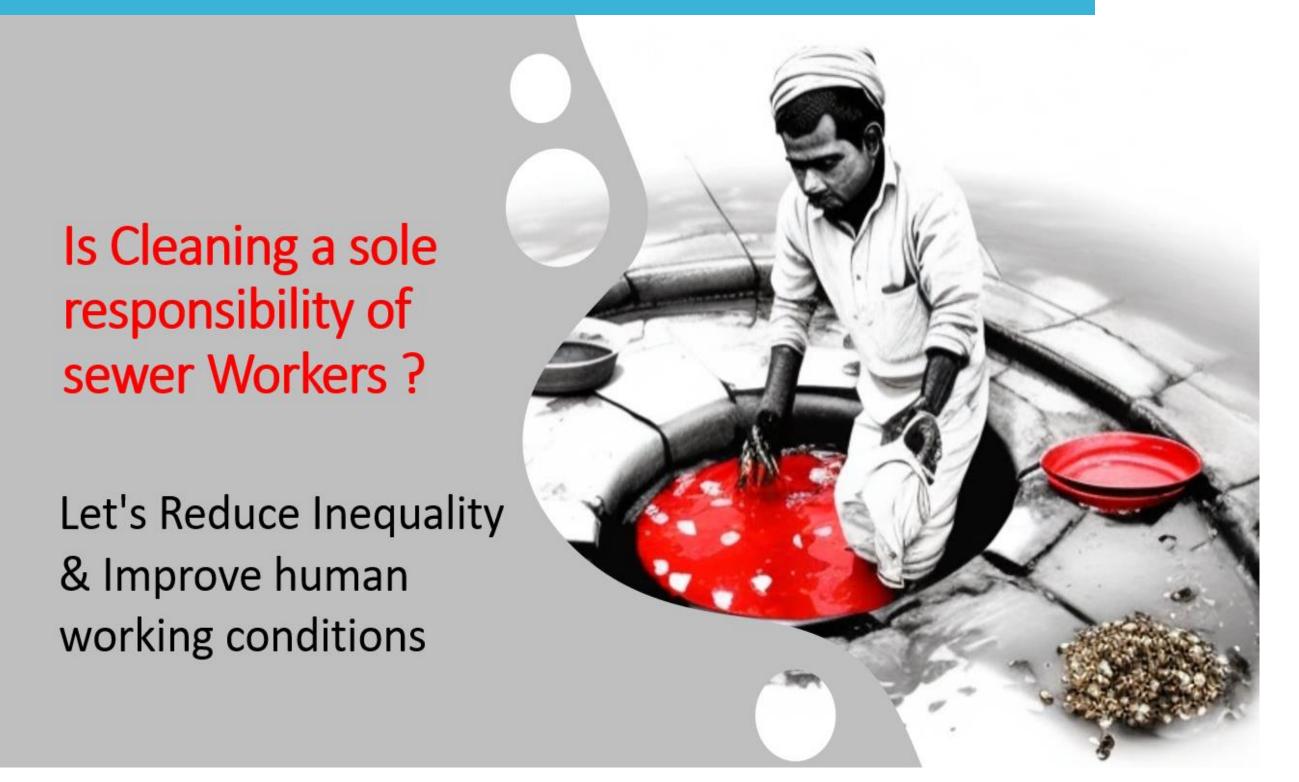
Email – connect@arcrobotics.in

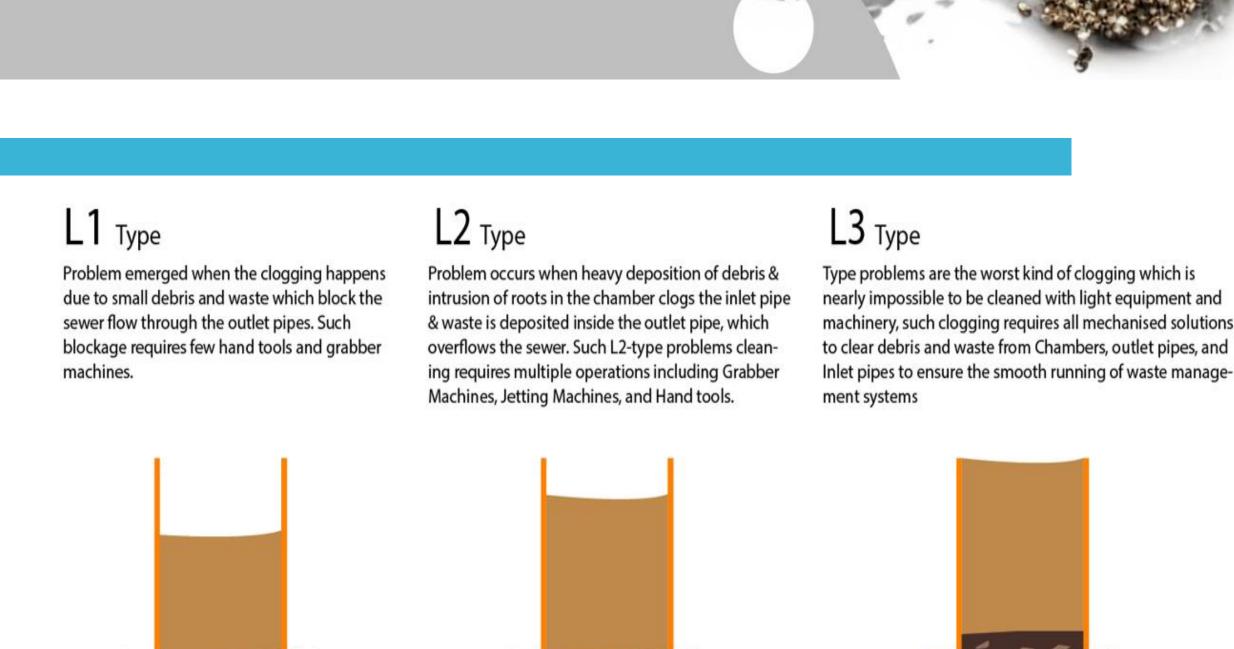
Website: arcrobotics.in

Introduction

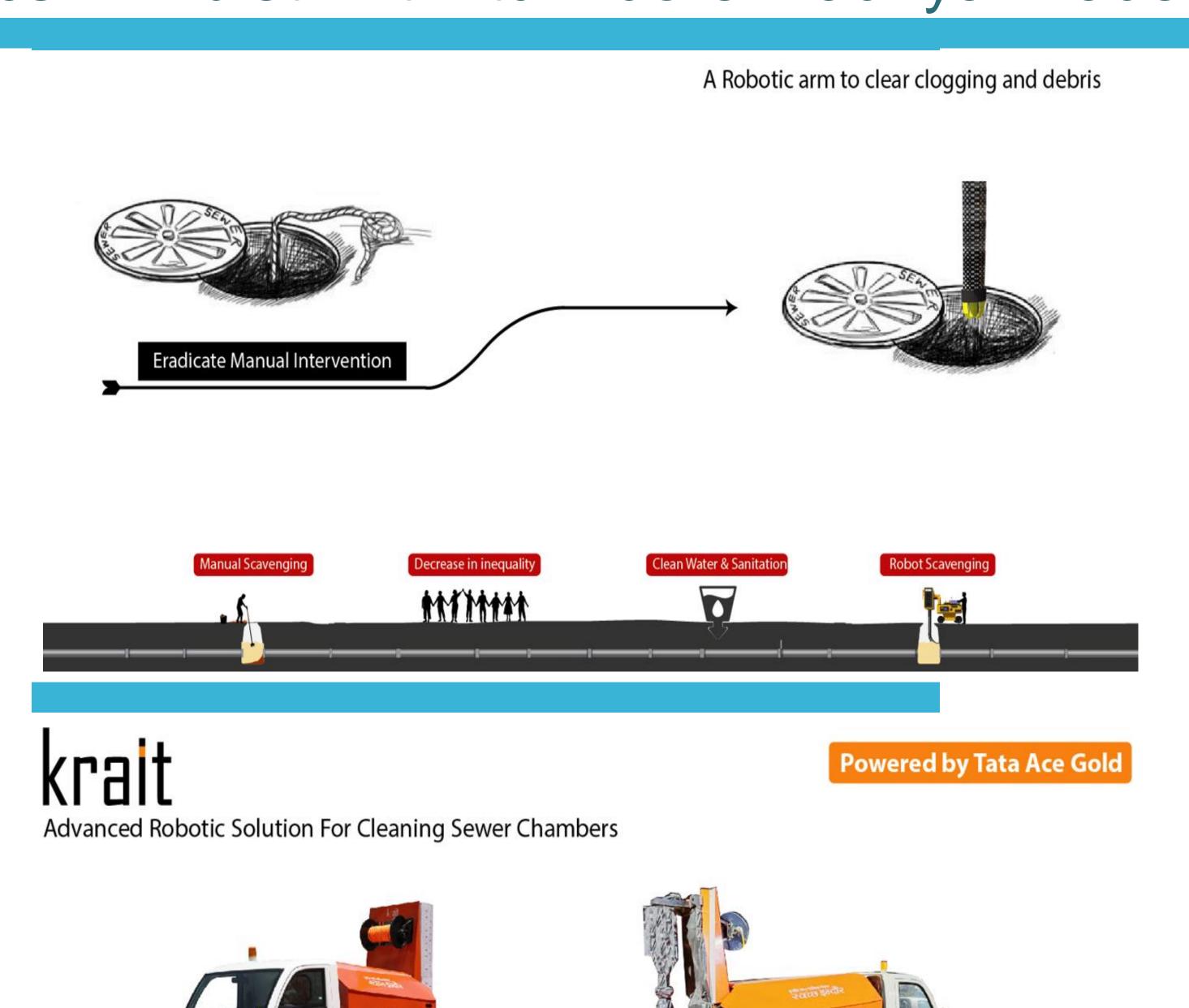
- •Use of robots to clean Manholes, Sewers, transportation lines, Tanks & Confined spaces is a rare equipment.
- •It can eliminate the deadly practice of manual scavenging, prevent exposure to toxic gases, fluids, and prevent from infections inside the manholes
- Robotic scavenging improve efficiency and quality of sanitation using advanced technologies, sensors & reduces environmental impacts of sewage disposal.
- ArcRobotics has developed a Limber robotic arm system that can dive inside the sewer chambers and transportation lines to prevent direct intervention with Hazardous waste.

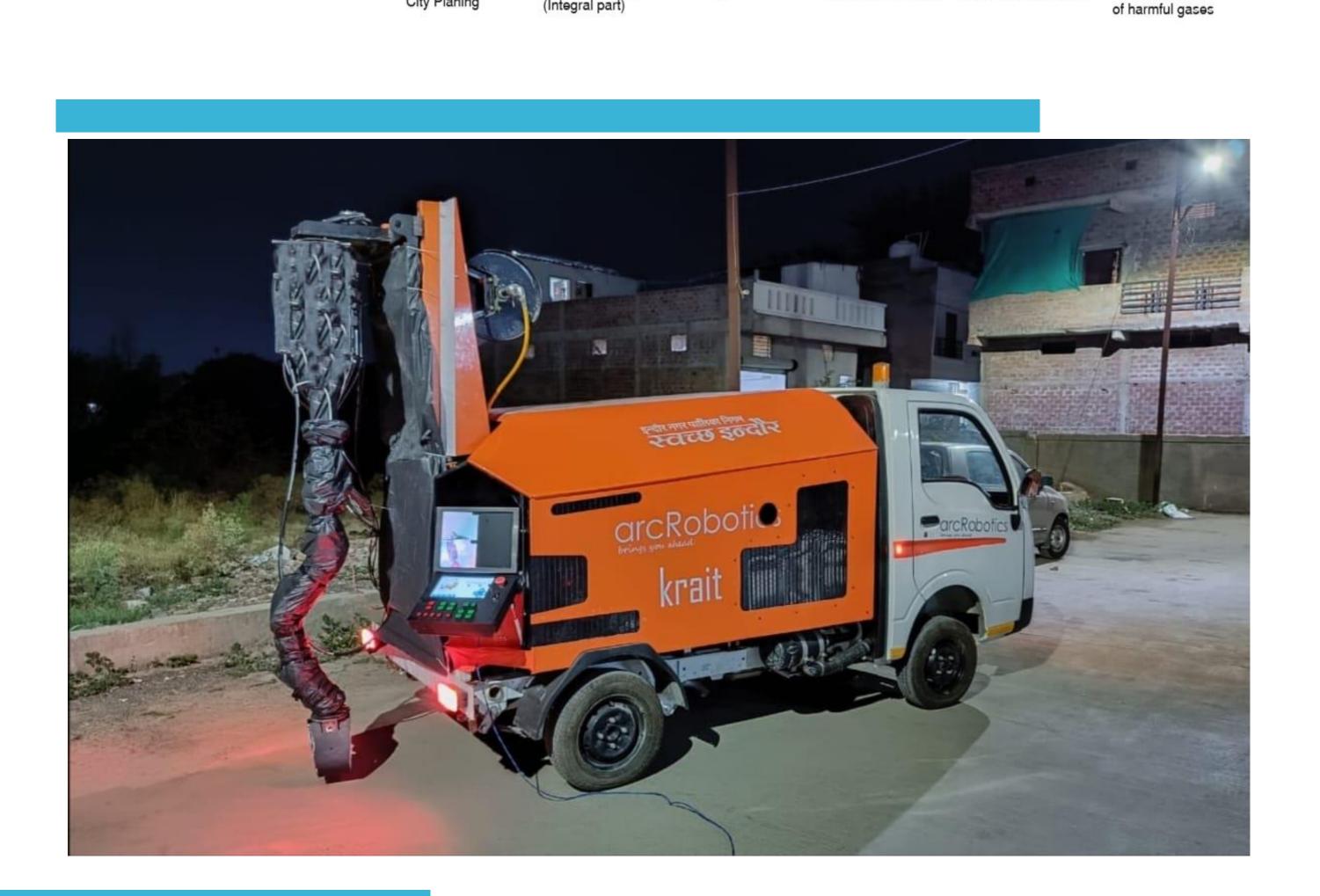




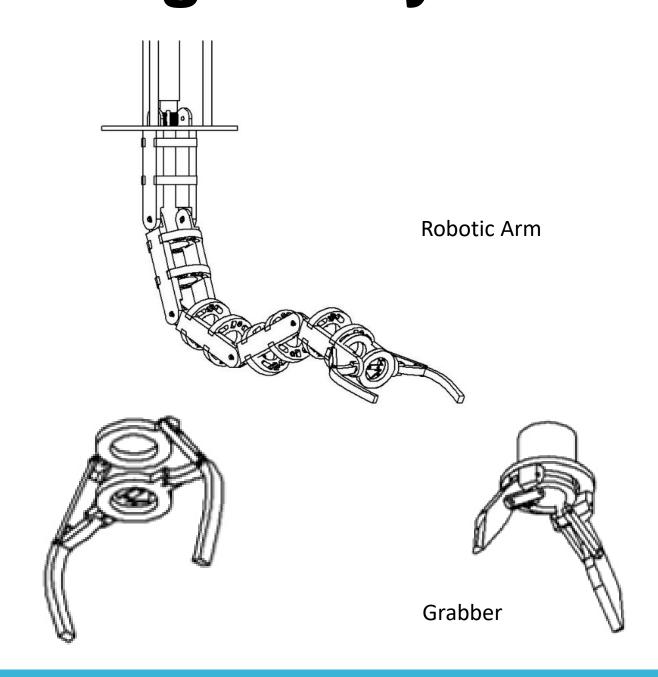


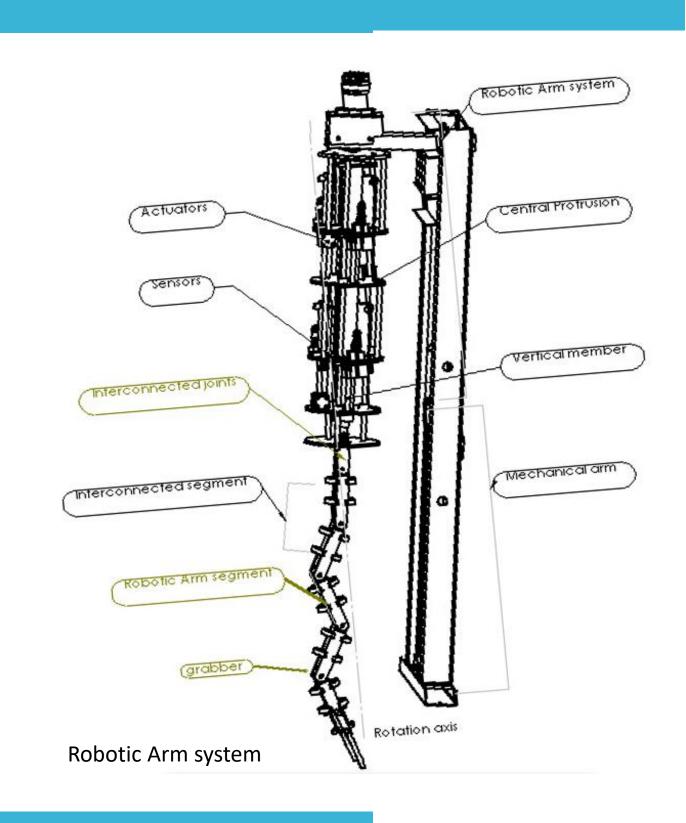
Hand Tools
Grabber Machine
Jetting Machine





Design of System





Characteristic and Features

Robotic Grabber

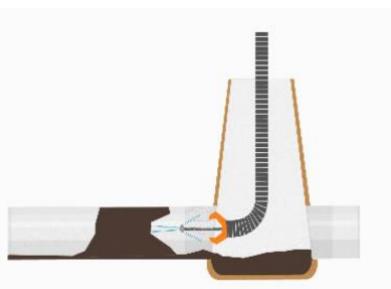


Approach

Advantage:

- Complete chamber
- Operation Pluck out silt
 - 4 vision to look inside
 - Collect debris from inlet- outlet pipe.

Automatic jetting





- · Flexible, Robotic & ejector based
- · Inlet outlet .
- Velocity based cleaning Robotic movement to guide
- · Robotic integrated jetting

