



# CCTV Challenges: A Call for Innovation



# COMPANY BACKGROUND & OVERVIEW

An embodiment of 'Made in India' excellence, Sparsh is transforming the landscape of Indian electronic security manufacturing with over two decades of pioneering innovation. Founded in 2002, Sparsh set out with a bold vision to position India as a global hub for the design and production of advanced security solutions.

The company invests 5-7% of its annual revenue in research and development. Sparsh has technological tie-ups with world leaders in video surveillance to stay ahead of the curve. Known for its expertise in providing tailor-made solutions, Sparsh also has complete range of products that are ER-compliant, in line with the CRO by Ministry of Electronics and Information Technology (MeitY) standards.

**22 YEARS**  
of **LEGACY**



India's **1<sup>st</sup>** CCTV Manufacturer



**4** In-House Manufacturing Units



**15** Regional Offices



Leading **CCTV** Brand in Govt. Projects



**Over 30** Service Centres



**32** Design Registrations  
**5** Copyrights and  
**13** Trademarks

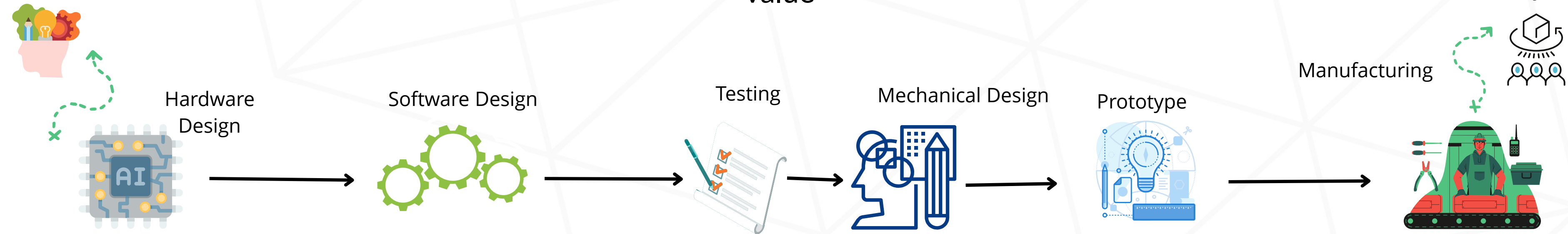
## CORPORATE VISION

Our vision is to improve security for all and build a comprehensive portfolio of video surveillance security solutions that serve customers globally.

## CORPORATE MISSION

To empower every organization and individual in the world to create a secure environment for their customers, employees and loved ones by focusing on customer-driven innovation and sustainable production. We seek to continually advance our technology, ease of use, and relenting execution to reduce cost and increase value

From Idea



# Smart Sens Camera by Sparsh

- A compact environmental monitoring system that measures PM1.2, PM2.5, PM10 (airborne particles), Temperature, Humidity, TVOC (total volatile organic compounds), and eCO2 (equivalent carbon dioxide) for comprehensive air quality assessment.
- Real-Time Data: Live AQI readings accessible via the mobile app and web interface.
- Alerts: Configurable alerts for unsafe air quality thresholds



Application No.:  
202411097454

# Applications



## Smart Cities

- Real-time air quality monitoring at public spaces.
- Enhanced surveillance for city safety.



## Industry 4.0

- Monitor air pollution levels and ensure compliance.
- Site security with dynamic PTZ tracking.



## Residential Complexes

- Improve indoor and outdoor air quality awareness.
- Secure living spaces with round-the-clock surveillance.

# Problem Statement

The increasing demand for integrated security and environmental monitoring solutions in the surveillance industry has highlighted the need for advanced, cost-effective sensors. Currently, most sensors used are imported and we aim to source a reliable, high-accuracy, and cost-effective Made in India sensor that can replace these imported components.

- Identify or design a sensor capable of capturing PM2.5, PM10, CO2, and VOC, temperature, and humidity parameters with high accuracy.
- Ensure the sensor complies with Indian and international regulatory standards for environmental monitoring.
- Focus on scalability, affordability, and ease of integration with existing CCTV camera systems.
- Reduce dependency on imported components and promote indigenous manufacturing aligned with the "Make in India" initiative.

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