



Activebuildings' air management technology created a healthy and secure environment for our patients' IVF journey

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THE CHALLENGE - JASLOK HOSPITAL

Jaslok Hospital, Mumbai's well-known Assisted Reproduction (IVF) Clinic - FertilTree, requested our assistance for air quality management.

IVF departments are a sensitive zone where sperm/egg samples are stored, tested and cultivated. Contamination can be costly to the hospital and emotionally taxing for the to-be parents.

In the initial tests, high levels of CO₂ and PM_{2.5} were found in the Andrology and Embryology labs along with OT areas, which is bad for the stored samples as well as the staff and patients.

Sensitive Zone - IVF Clinic

Risk: Monetary losses and Emotional distress

Finding: High levels of CO₂ and PM_{2.5}

ACTIVEBUILDINGS UPGRADE

VENTILATION MANAGEMENT SYSTEMS _____ to ensure fresh air in the facility and reduce build-up of CO₂.

HEPA FILTRATION SYSTEM _____ to ensure the fresh air is free from pollutants.

ACTIVATED CARBON FILTRATION SYSTEM _____ to ensure reduction in Volatile Organic Compounds from cleaning chemicals used.

SENSORS TO ENSURE REAL-TIME STATS _____ on changes in the temperature, humidity and air quality.

WEEKLY REPORTS ON PERFORMANCE _____ and live data for any disturbance in the environment.

EXISTING TECHNOLOGY AT JASLOK

**BASIC AIR
MONITORING MECHANISM**

No System for Air Cleaning

No Mechanism for Air Ventilation

Increased scope of Contamination

No System for Error Identification

No Reports on Tech Performance

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TECHNOLOGY INTRODUCED BY ACTIVEBUILDINGS

INTEGRATED VENTILATION SYSTEM FOR FRESH AIR

HEPA FILTRATION FOR AIR CLEANING

INDOOR ENVIRONMENT MANAGEMENT SYSTEM

AIR QUALITY SENSORS WITH WEEKLY REPORTS

4G-ENABLED DATA COLLECTION & ANALYSIS

Reduced CO2 by 4x in OT

Reduced PM2.5 by 10x in PGD lab

Reduced TVOC by 5.5x in Andrology lab

Low scope of Contamination

Timely Intervention due to Quick Reports

Long-term Solution for Air Quality

OUR SUCCESS IN NUMBERS

DAILY OCCUPANCY

100

PERSONS PER FLOOR

COST OF CLEAN AIR

₹9

PER PERSON PER DAY

PM2.5

50%

REDUCED

TVOC

68%

REDUCED

CO₂

80%

REDUCED

HUMIDITY

11%

REDUCED

BEFORE

NEW HEPA AIR FILTERS



AFTER

3 MONTHS OF CLEANING
POLLUTANTS

GET IN TOUCH WITH OUR EXPERTS TO KNOW MORE

TALK TO US

activebuildings.io