

Breathing Lives

AQOZA[®]

Who are We?

A deep-tech vendor in Gas phase Filtration Systems & Detection Technologies.

What we Do?

R&D in Gas Adsorption Media
Manufacturing of Adsorption Media
Manufacturing of Air Filtration units





Vision

Improving Air Quality for
a Sustainable Living.

Mission

Protect life, Business and Environment
in providing Innovative & Sustainable solutions
in Air Purification.

What we Offer?

Protection System:

- Odour Control units
- Toxic Gas Removal units
- Indoor Air Quality Biogas
- Desulphurization units
- Corrosion Control units
- Corrosion Monitoring units

Detection System:

- Gas Detector / Transmitters
- Indoor Corrosion Monitoring
- unit Corrosion Coupons



Engineering Centre & Assembly unit



FRP Factory



Media Factory

Located at Palakkad Industrial Area, Kerala, India
bordering Tamil Nadu.

Manufacturing:

Speciality Activated Carbon (both natural & synthetic)
Zeolite
Alumina Oxide
Bentonite Clay
Lithium Hydroxide
Silica Gel.

Capabilities:

Produce Medias with varying properties
Meet stringent customer quality requirements
Unique capability to do speciality treatments on various
media to enhance Adsorption properties.

Our facility also houses filter manufacturing, assembly
& testing Space.

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R&D

A world class research facility with a fully equipped laboratory to perform large range of characterisation and testing.

Lead by PhD holders with in-depth experience in Adsorption & Catalytic Media technologies. Supported by chemical Engineers.

Capabilities in developing , piloting and commercialising of full range of offerings for the adsorption media requirements.

Working with ISRO and DRDO for developing a new range of solutions for the space programs and defence solutions developments.

Also had ties with and is jointly developing products with various labs of domestic and international repute.

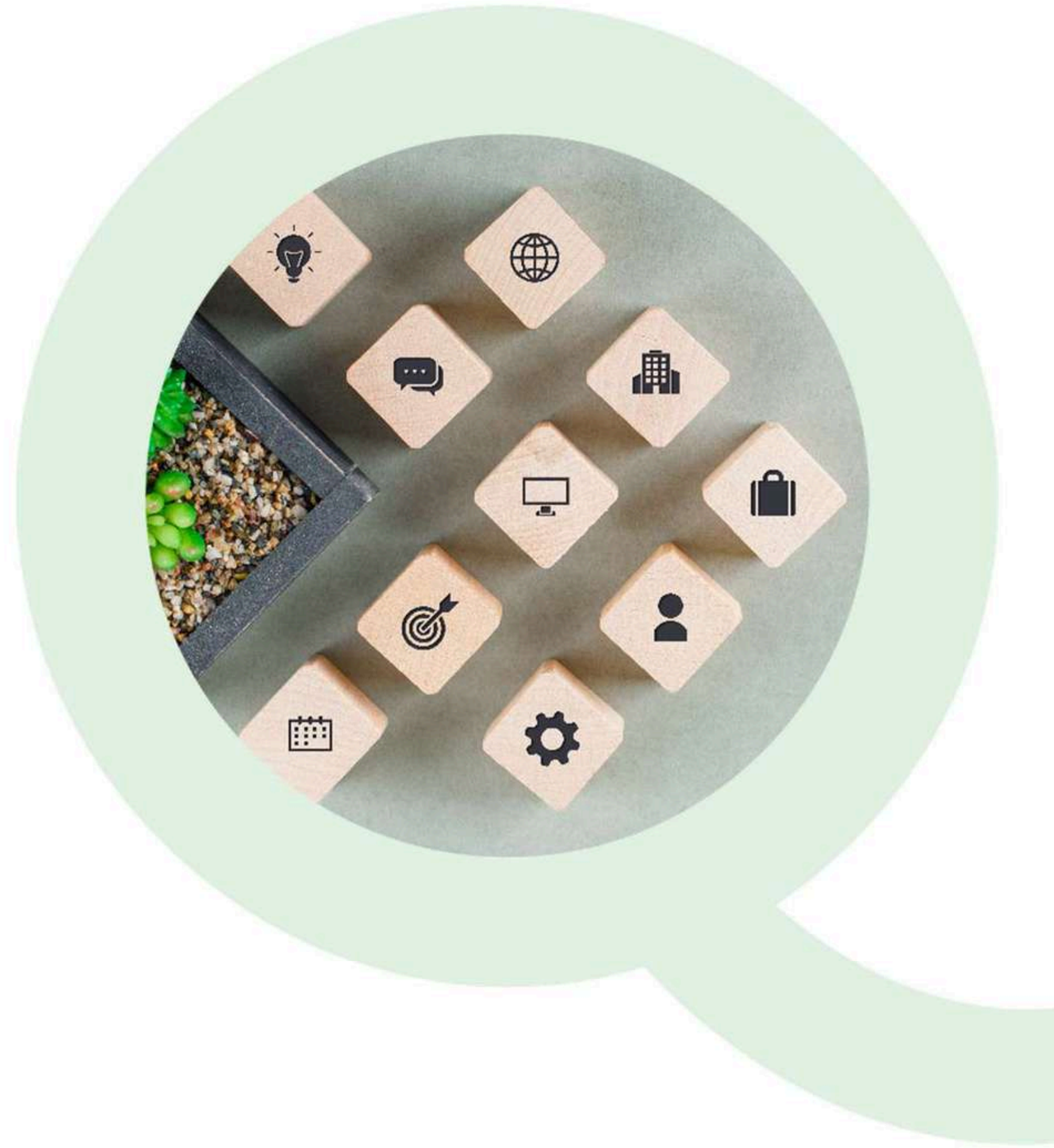




The **Key Environments** we protect around the world.

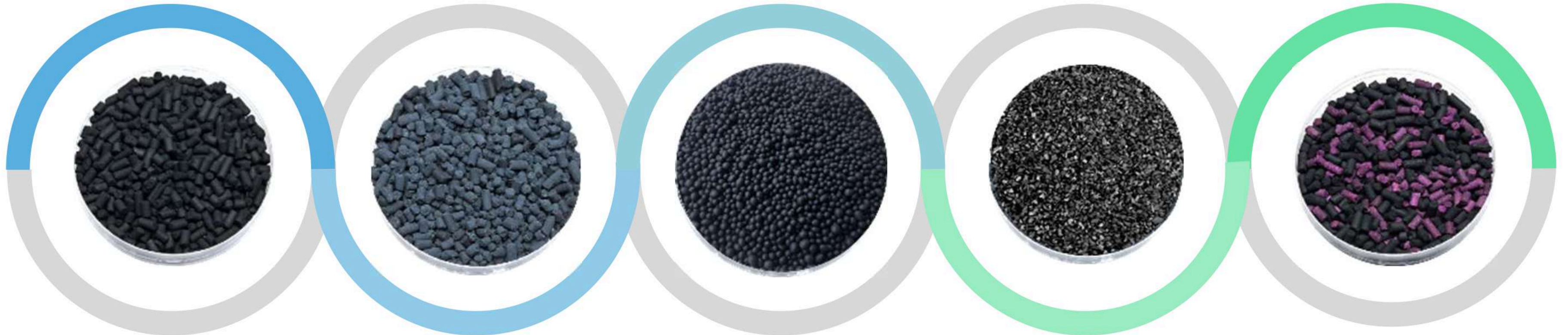
- Wastewater treatment
- Pumping stations Food
- Processing Industry Solid
- Waste treatment
- Hospitality & Healthcare
- Residential
- developments Fertilizer
- manufacturing
- Petrochemical Industry
- Pharmaceutical Industry
- Data Centers

Our Products



Our Carbon Media Family

A complete range of Gas & Odour Removal Solutions.



Virgin Activated Carbons

Ideal for VOCs, Low concentrated H₂S and Siloxanes.

Impregnated Activated Carbons

Hard and versatile for a wide range of applications.

Activate Carbon Sphere

NBC suits, Speciality Air Filtration beds, Air curtains and WAR gas applications.

Granular Activated Carbon

High loading rates for speciality applications

Activated Carbon Blends

Wide spectrum adsorption applications

Other Adsorption Media Family

A complete range of Gas & Odour Removal Solutions.



Zeolites



Alumina Oxide
Beads



Bentonite Pellets



Silica Beads



Lithium Hydroxide
Pellets

Odour Control System



Activated Carbon Adsorption System



Biological Oxidation + Adsorption

Activated Carbon Adsorption System

Standard Units –Passive / Active Units

Capacities :

Air flow from 50 m³/hr to 2,500 m³/hr.

Passive (without suction fan) &

Active (with suction fan)

Applications:

Eliminates toxic gases & odours produced from Manholes, lifting stations and STPs of Residential developments, Facilities and Sewage transfer lines.



Activated Carbon Adsorption System

Custom Engineered System

Capacities:

Air flow from 250 m³/hr to 20,000 m³/hr

Customized engineered units with a standalone operation capability.

Applications:

Eliminates the toxic gases & Odours Produced from pumping stations, large STPs, ETPs in Industrial units & Municipal treatment plants.



Features of Adsorption System

Our Features

- Green Odour Control Unit
- Based on Coconut activated carbon
- Made from Coconut shells
(A renewable resource, Support farmers, locally made)
- Chemical Free System
- Water Regenerable media (Life 3 years or more)
- Land disposable media after usage.
- Odour removal efficiency 99.9% all the time
- Least operator assistance



Biological Odour Control System

Capacities:

- Air flow from 1,000 m³/hr and above customized engineered units.
- 100% recycled Inert porous media
- Stable media at low pH
- Provides 8x the surface area of traditional bio-trickling filter medias
- Entire surface area utilized by bacteria
- Single media bed, regardless of depth
- Smaller FRP vessels, less expensive

Applications:

Eliminates toxic gases & Odours produced from Wastewater treatment plant & Industrial Manufacturing units.



Corrosion Monitoring Units

To monitor and store real-time corrosion in a room which is crucial for effective protection of electronic components. The device works in compliance with international standard; '*ANSI/ISA-S71.04 Environmental Conditions for Process Measurement & Control Systems: Airborne Contaminants*', for measuring corrosion levels of electronic & electrical equipment



Active Corrosion Monitoring Unit



Passive Corrosion Monitoring Sensor

Corrosion Control Units

To remove corrosive gases and protect the sensitive equipment like motor controls, electronics, data centre equipment, server room equipment, switch gears and other critical equipment from the following industry.

- Refineries
- Airports
- Healthcare
- Paper & Pulp
- Pharmaceuticals
- Semiconductor manufacturing
- Steel manufacturing & Smelting plants
- Fertilizer manufacturing
- Wastewater treatment
- Chemical manufacturing

To meet Air quality limit of ' *ANSI/ISA-S71.04 Environmental Conditions for Process Measurement and Control Systems:*

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Toxic Gas Removal Units

Protect people, business unit and environment by removing toxic gas infiltrate from environment and from gas leakage at manufacturing units.

- Fertilizer manufacturing
- Chemical storage / manufacturing
- Pharmaceutical raw material storage, emission control,
- Oil & Gas refineries
- Food Processing
- Paper & Pulp manufacturing
- Furniture manufacturing / painting



Biogas Desulphurization

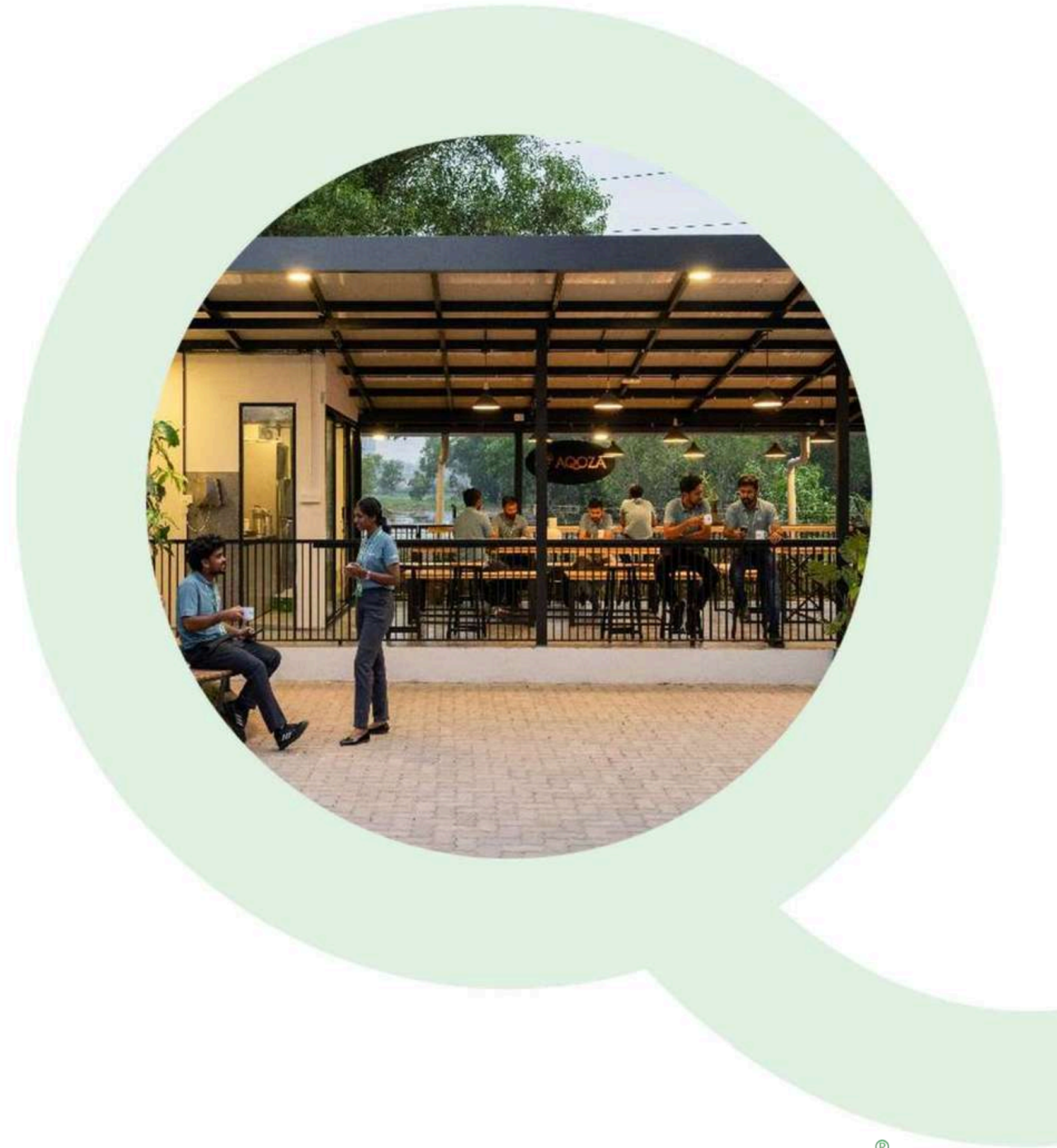
DesulphurPlus

- Activated carbon adsorption based
- Made from Coconut shell carbon, Green Carbon (A renewable resource, Support farmers, Locally made)
- Chemical Free System
- Water Regenerable media, Clean-In-Place (upto10 regeneration)
- H₂S removal efficiency 99% all the time
Single media to remove H₂S, Siloxane & VOCs
- Works with zero O₂ concentration as well
- Low pressure drop; 10-20mbar across the filters
- Least operator assistance



Why AQOZA[®]

- Specialized vendor In Gas phase filtration
- Single vendor in Media manufacturing and system integration
- Dedicated R&D team in Adsorption Media
- In-house Gas adsorption testing Lab.
- Same team which has worked on mission critical projects for the Forces and also ISRO.
- Environmental friendly technologies
- Continuing product upgrade & Innovation



Our Presentation is just
too small for everything



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