

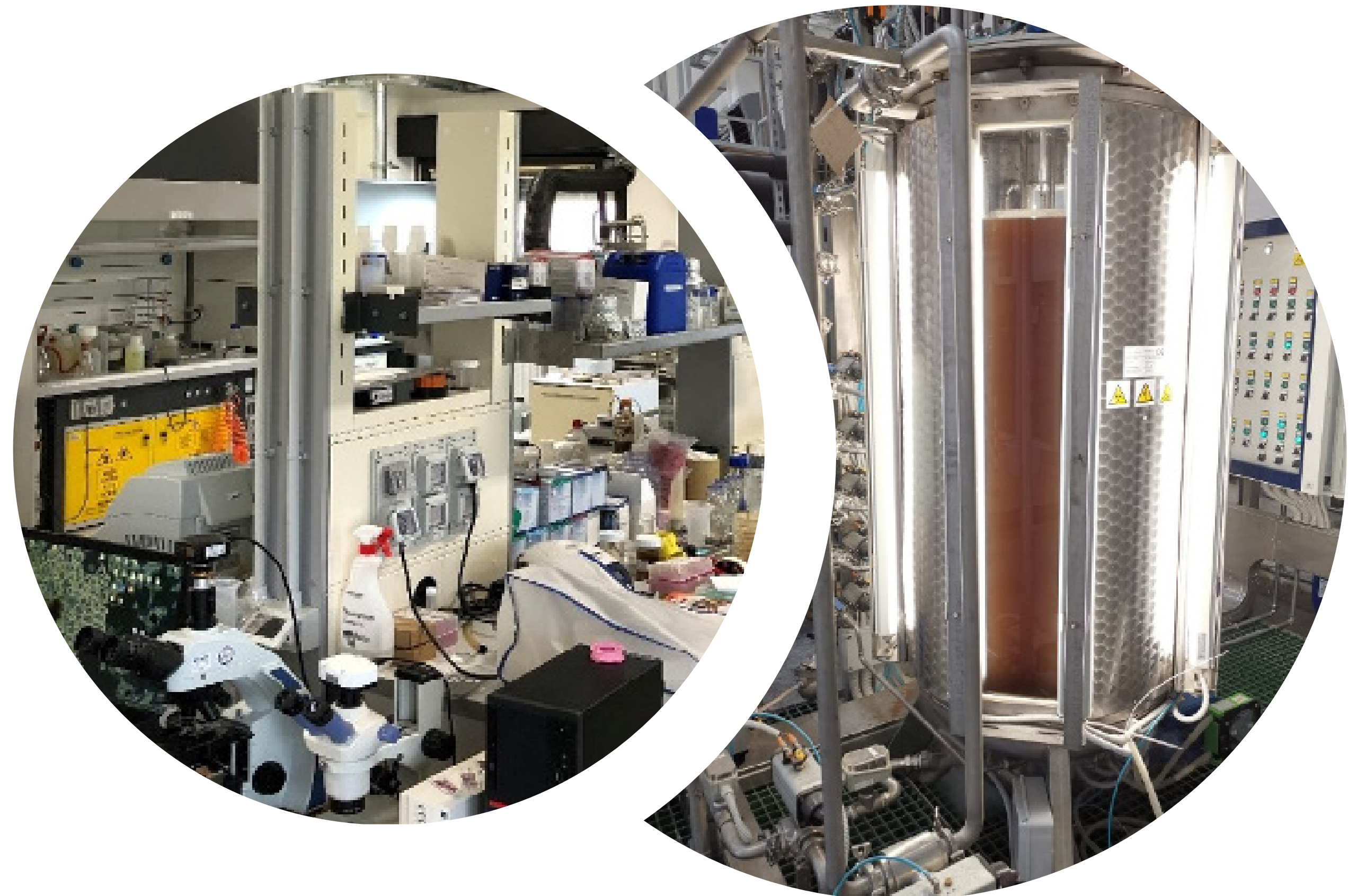
Chemistry at the service of Industry

A Market leader In Biotechnology applications

Biotechnology and bio-enzymatic products for:

- Lagoons, Lakes and Ponds
- Wastewater treatment plants
- Anaerobic digesters
- Biogas production
- Solid/Liquid Waste disposal platforms

We develop and produce in-house enzymatic, bacterial and fungal formulations by means of submerged Fermentation (SmF) and Solid State Fermentation (SSF).



Application: Odor Control

Odor – generally comes from volatile compounds that escape into the air and stimulate your smell receptors.

The intensity of odor-causing substances depend on the source such as,

- Waste water
- Food waste
- Industrial or
- Natural decay

And influenced by time and environmental conditions.



Common Odor - Causing Substances

- Hydrogen Sulfide (H₂S)
Rotten egg smell- Produced by anaerobic bacteria breaking down organic matter containing sulfur.
- Ammonia (NH₃)
Sharp, pungent odor
- Volatile Organic Compounds (VOCs)
Includes aldehydes, ketones, alcohols, hydrocarbons.
- Amines
Fishy, decaying flesh odor
- Sulfur Compounds (other than H₂S)
e.g. Mercaptans (thiols) → skunky smell.
- Fatty Acids & Organic Acids
Found in spoiled food, fermentation, and waste.

Product Comparison

Other Products	NCR – Microdor T2 ME
<p>Various Products : Neutralizers, oxidizers, Masking agents, equipment based</p> <p>Application: Mainly Industrial</p> <p>Considerations: Health and Safety</p> <p>Environmental Impact: Negative impact based on Usage</p> <p>Effectiveness: Works on odor in the atmosphere. Short performance.</p>	<p>Biotechnology product with combination of enzymes and bacteria.</p> <p>Multifunctional : Industrial, residential, personal care and F&B.</p> <p>Very safe for Nature, Aquatic and Human exposure No Environmental Impact. Uses in lower dosage. Work by targeting and breaking down the organic compounds that are often the root cause of unpleasant odors.</p>

Odor Control : Why Biotechnology product ?

Long-lasting effect

Microbial products break down the odor-causing compounds at the source through biodegradation.

Eco-friendly & safe

Biotech products are biodegradable and non-toxic. Safer for humans, animals and the environment.

Works on organic build-up

Microbial cultures consume organic sludge, grease, waste.

Cost-effective over time

Initial cost of biotech products might be higher, but because they reduce sludge buildup and prevent recurring odor, the maintenance cost drops.

No strong fragrance needed

Biotechnology solutions don't rely on perfume or masking fragrance. Suitable for food premises, resorts, sensitive areas.

Regulatory compliance

Meet green certification standards. Reduces usage of hazardous chemicals

→ Chemicals mask the smell temporarily

→ Chemical odor neutralizers may generate harmful by-products or VOCs.

→ With chemicals, sludge still accumulates so odor keeps returning

→ Chemical deodorants require frequent reapplication.

→ Chemical products often just use fragrance to overpower the smell.

→ Chemicals or their bi products could be hazardous and not safe for human or animal exposure

Application Area

The Biotechnology Product have the larger application area, some of them are,

Solid Waste handling area	This is very effective in controlling odor from the source and safer for the people working around the area.
STP, ETP and Municipal Treatment facilities	Very effective in the places where there is continuous incoming waste with changing concentration levels.
Food industry	Suitable for the industry with high level of organic compounds are involved in the waste water and holding /retention conditions.
Dairy farms	Especially in the Cow Shed , where normal odor chemicals can not sprayed , NCR Microdor T2 is very safe for the cows and effective odor control.
Grey water systems	Grey water in any industry when reused for the gardening, Microdor T2 has no impact on the plants or lawn area while effectively controlling bad odor of grey water.

Measurement

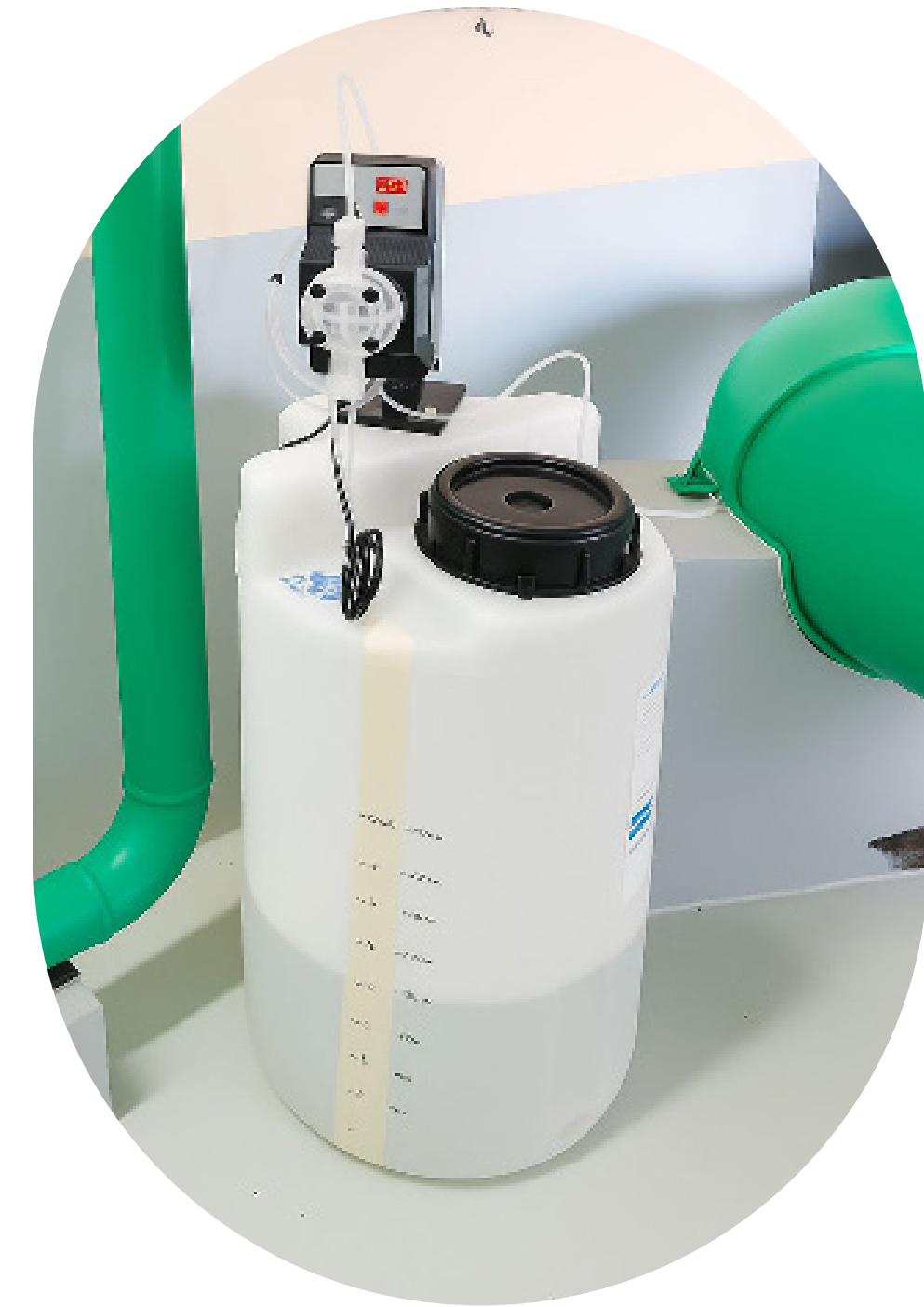
Monitoring equipment

The mentioned parameters have been detected with the below equipment, with probe: Dräger X-am 7000

Parameter	Max ppm	Representing
IBUT	2.000	VOC
NH ₃	200	NH ₃
H ₂ S	100	H ₂ S
THT	20	Mercaptans



Application Area



The chemical could be dosed Neat or in diluted form to the waste stream or the tank with proper mixing/circulation facility. The chemical could be also be applied with a spray (diluted form) especially to treat solid waste facility or sludge treatment.

Microdor T2ME - UAE Reference List - Long Term Contract

Sl. No.	Client Name	Project Location	Application	Flow Rate/Day, M3
1	Dubai Holding Group	Madinat Jumeirah	TSE Water for Irrigation	600.00
2	Emaar Community Management	Madinat Jumeirah	TSE Water for Irrigation	10,000.00
3	Emaar Community Management	MIPS Emirates Living	TSE Water for Irrigation	10,000.00
4	Emaar Community Management	SPRING STP DM TSE Emirates Living	TSE Water for Irrigation	6,000.00
5	Emaar Community Management	ARIPSI Arabian Ranches 1	TSE Water for Irrigation	7,000.00
6	Emaar Community Management	ARIPS2 Arabian Ranches 1	TSE Water for Irrigation	5,000.00
7	Emaar Communi Management	ARIPS3 Arabian Ranches 1	TSE Water for Irrigation	3,500.00
8	Emaar Community Management	ARIPS4 Arabian Ranches 1	TSE Water for Irrigation	3,500.00
9	Emaar Community Management	AR2 IPS Arabian Ranches 2	TSE Water for Irrigation	4,500.00
10	Emaar Community Management	GIPS The Green Views	TSE Water for Irrigation	2,000.00
11	Transguard Group	JAC 01/07/08/09 - Accomodation	Grey Water for Toilet Flush	500.00
12	Transguard Group	Alquoz 14 - Accomodation	Grey Water for Toilet Flush	500.00
13	Premier Inn Hotel LLC	Premier Inn Hotel - Iban Battuta	Grey Water for Toilet Flush	500.00
14	Premier Inn Hotel LLC	Premier Inn Hotel - Al Jadaf	Grey Water for Toilet Flush	500.00
15	Imdaad Facility Management	Range Rover Showroom	TSE Water for Irrigation	100.00
16	Imdaad Facility Management	DP World - JTM	TSE Water for Cooling Towers	100.00

REFERENCES- Global

SI. NO.	Company Name	Segment	Country
1	BURGO GROUP Avezzano	Paper Mill	Italy
2	JSC SYASSKY	Paper Mill	Russia
3	GILDAN	Textile	Honduras
4	SERVIZI OSPEDALIERI	Hospitals	Italy
5	A.I.M. VICENZA	Municipal	Italy
6	ACEGAS - APS	Municipal	Italy
7	CERAMIKA TUBADZIN	Construction	Poland
8	LAMBORGHINI	Automobile	Italy
9	COCA COLA Sibeg	F&B	Italy
10	DISTILLERIE VINICOLES DU BLAYAIS	F&B	France
11	SADAM (Sugar Industry)	Sugar Industry	Global
12	Croci SPA	Fisheries	Italy
13	D'auria Distillarie	Distillery	Germany /Italy

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THANK YOU

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