

# Bio-Bar

## Normal Pressure Liquid Microbial Fermentation Machine



1,500L output each tank



**Livestock Farm**

Wastewater  
Treatment

Sediment Level  
Decrease

Odorant Removal

**Slaughterhouse**

Wastewater  
Treatment

Odor removing

**Compost Plant**

Compost  
Deodorization

Compost maturity

**Golf Course**

Vegetation  
Maintenance

Vegetables/  
Crops Farm

Productivity  
Improvement



**Bio-Bar Cloud Control Inc.**

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# Our Successful Cases around the world

## Livestock Wastewater



Pig Farm in Malaysia

- 90% odorant removal
- 95% decrease in BOD & COD values
- 40% reduction in wastewater pond sediment
- 40% wastewater recycled



Slaughterhouse in the Philippines



## Manure Compost



Chicken Manure Compost in Malaysia



- 85% odorant removal
- 30% reduction in fermentation time
- Maintains stable fermentation temperature

## Crops/Vegetation



Nursery in China



Golf Course in Taiwan



- Alternative for chemical pesticides
- Reduces chemical fertilizer and pesticide usage
- Improves crop and vegetation growth

# Bio-**Bar** Solution

also solve your wastewater issues in

✓ Palm Oil Factory

✓ Sugar Mill

✓ Starch Factory

✓ Paper Mill

Using microbial technology to treat paper mill wastewater effectively degrades organic pollutants such as lignin, cellulose, and hemicellulose. This process rapidly reduces odors and suspended solids in the water.

By facilitating microbial decomposition, pollutants are broken down more efficiently, leading to clearer water and enhanced environmental quality.

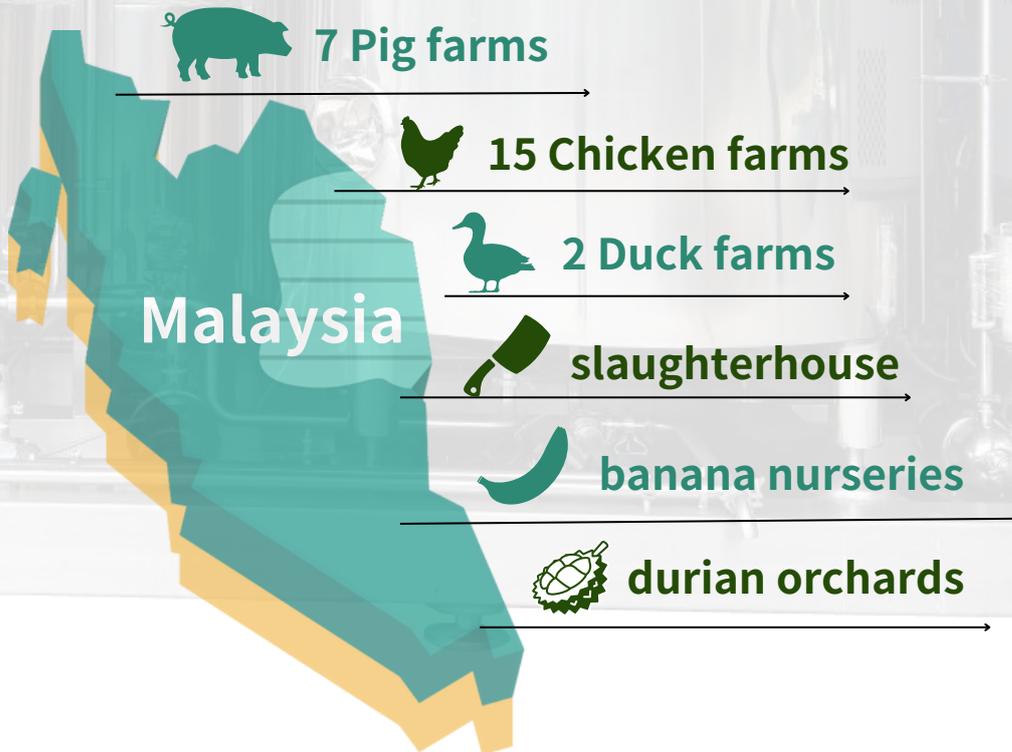
## *Transform Paper Mill Effluent with Bio-Bar Solutions in 96 Hours*



# Bio-Bar in Malaysia

## Comprehensive agricultural solutions

Our Malaysian user installed 3 Bio-Bar units along with formula packs at livestock farms, banana nurseries, durian plantations, and slaughterhouses. This implementation effectively reduced BOD, COD, and TDS in wastewater, resulting in outstanding outcomes.



# Malaysian J1 Pig Farm

## Wastewater Pond 2 and Pond 3 Test Data

water flow: Pond 2 to Pond 3

No.	Date	J1 Pond2				J1 Pond3			
		pH	BOD (ppm)	COD (ppm)	TDS (ppm)	pH	BOD (ppm)	COD (ppm)	TDS (ppm)
1	2022/12/27	8.4	850	24,229	41,250	8.3	820	11,332	3,449
2	2023/01/12	8.5	372	1,488	576	8.4	253	1,013	398
3	2023/02/09	8.2	140	560	420	8.4	125	501	124
4	2023/03/03	8.3	346	1,422	4,197	8.4	271	1,346	2,833
5	2023/04/06	5.6	212	1,175	322	5.7	133	1,285	231
6	2023/04/18	8.1	206	620	2,400	8.2	185	555	1,940
7	2023/05/03	8.1	140	527	2,080	8.0	82	310	2,062
8	2023/05/17	8.7	157	537	2,600	6.7	102	379	2,520
9	2023/06/14	8.0	161	1,021	3,140	4.8	49	796	2,520
10	2023/06/19	8.4	308	1,000	1,867	5	224	750	1,900
11	2023/06/22	7.8	223	1,219	3,220	4.3	18	816	2,450
12	2023/07/06	8.0	206	1,001	2,960	7.3	56	645	2,500
13	2023/07/20	8.1	103	968	3,310	7.4	60	683	2,750
14	2023/08/03	8.0	163	981	3,150	7.1	41	800	2,680
15	2023/08/17	7.9	213	1,008	2,950	7.5	79	808	2,630
16	2023/08/30	7.8	202	1,073	2,810	7.5	79	812	2,570
17	2023/10/12	7.6	177	1,060	3,070	7.6	79	871	2,770
18	2023/10/26	7.7	131	1,043	3,050	7.6	77	943	2,940
19	2023/11/23	7.7	142	965	2,650	7.2	67	905	2,240
20	2023/12/07	7.3	162	952	2,400	6.5	24	782	1,980
21	2023/12/21	7.7	155	736	2,660	6.8	34	698	2,070
22	2024/01/04	7.5	175	836	2,420	6.5	67	667	1,960
23	2024/02/01	7.0	156	886	2,120	5.1	15	635	1,736
24	2024/02/15	6.9	116	903	2,410	4.0	17	517	1,993
25	2024/03/14	7.6	130	760	2,520	6.6	15	484	2,110
26	2024/03/28	7.8	164	688	2,790	6.4	73	556	2,280
27	2024/04/25	7.6	119	675	2,850	6.6	30	599	2,400
28	2024/05/09	7.5	181	666	2,830	6.5	38	603	2,380
29	2024/07/18	7.3	196	531	2,770	7.2	82	529	2,060
30	2024/08/01	8.3	76	560	2,680	7.4	82	568	2,060
31	2024/08/15	8.1	132	516	2,860	7.7	77	560	2,060
32	2024/08/29	8.1	127	470	2,840	7.7	80	509	2,040
33	2024/09/12	8.0	122	584	3,030	7.5	83	567	2,190

# ABOUT US

Founded in 2018, BIO-BAR Cloud Control Inc. leverages the extensive experience of its parent company, Advanced Green Biotechnology Inc. (established in 2002), in manufacturing microbial products. We combine biotechnology with intelligent control technology to tackle challenges in wastewater treatment, agriculture, and composting.

Specializing in the research and development of fermented microorganisms, we provide innovative technical support for wastewater treatment, environmental odor reduction, and crop-related issues. To facilitate large-scale farms in utilizing microbial products while significantly reducing costs, we developed the BIO-BAR machine.



Agribusiness Science & Technology Innovation Award



National Biotechnology and Medicine Care Quality Award



National Biotechnology and Medicine Care Quality Award



National Biotechnology and Medicine Care Quality Award



National Innovation Award



Excellent Businessman Award



Energy Label



Agricultural Biotechnology: Deng Fong Award



Taiwan Healthcare and Agricultural Biotech Industries Innovation and Excellence Award: Bronze medal



Excellent Businessman Award

## Awards Over The Years

## Contact Us



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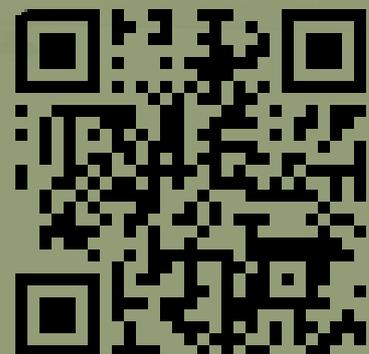


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## Visit Our Website



# More Information of Bio-Bar

## Operating Conditions

- Dimensions: 560 cm X 220 cm X 250 cm
- Voltage: 380ACV (adjustable)
- Water and electricity connected is required
- Normal pressure operation
- QR code reader



Status displayed on the screen

Operation video



- Reusing treated wastewater
- Less or without chemical fertilizers or pesticides
- Reducing the carbon footprint generated by transportation
- Reducing energy used during fermentation

## Sustainability Matters

## Microbiology Formula Packs

- Environmentally friendly materials
- Customized available
- Packed with Water-soluble film to prevent from dust



- On-site machine
- Automated/ AIoT
- Fresh bacterial liquid can be applied immediately, containing highly active bacteria and beneficial microbial metabolites.
- Collects data on equipment performance and research activities

# Our Patents

Thailand	1701000864A, 1801006829A, 16492, 1801006830A
Malaysia	MY-206672-A, MY-185934-A, MY-193911-A
Phillippines	1/2018/000395, 1/2019/000151
Taiwan	M494164, I529246, I569731, I623268, I585063, I236875, I673254, I662112, I1713835, I854191, I486323
China	CN204151346U(4128342), CN106922951A, CN107200624A, CN107200624A, CN1255109C, CN110386841A, CN209024536U(9007662), CN110386842A, CN104341235B(3063090)
USA	9738865
Japan	6291005, 6975747
Korea	10-2110037
New Zealand	747557, 752727
Australia	2018253457, 2019202785

## Presentations of Bio-Bar Solution around the world



Taiwan

China



Japan



Australia

