COMPANY
BROCHURE

SM Biotech®

MUSHROOMS PVT LTD

NOURISHING NATURE, ENRICHING LIFE

Better Mushroom Business
with Advanced Mushroom Machines

MANUFACTURER OF

MUSHROOM MACHINES

FOR A HEALTHIER TOMORROW



- Efficient
- Reliable
- Innovative
- Mushroom Solutions

Advanced Technology | High Performance | Durable & Reliable | Better Yield & Quality

GROWING TOGETHER IN MUSHROOMS

www.mushroommachines.com || sales@mushroommachines.com

OUR PROFILE

SMBiotech Mushrooms Pvt. Ltd. is a forward-thinking company committed to transforming the mushroom industry through **innovation, advanced technology, quality solutions, and sustainable practices**. We are dedicated to supporting mushroom growers, entrepreneurs, and businesses with modern solutions designed to improve productivity, efficiency, and long-term success.

Our company focuses on delivering reliable and high-performance solutions for the evolving needs of the mushroom cultivation industry. With a strong emphasis on **research, technology, quality, and customer satisfaction**, we continuously work towards making modern mushroom cultivation more efficient, organized, and accessible.

At **SM Biotech Mushrooms Pvt. Ltd.**, we believe that successful cultivation begins with the right knowledge, technology, and support. Our approach combines industry expertise with innovative thinking to help customers build stronger and more productive mushroom-growing operations.

OUR COMMITMENT

We are committed to:

- **Quality Excellence** – Delivering reliable products and solutions with a strong focus on performance and durability.
- **Innovation & Technology** – Adopting modern technologies to support the future of mushroom cultivation.
- **Sustainable Growth** – Promoting efficient and responsible practices for a healthier future.
- **Customer Support** – Building long-term relationships through professional guidance and dependable service.
- **Continuous Improvement** – Constantly improving our solutions to meet the changing demands of the industry.

OUR VISION

To become a trusted leader in the mushroom industry by promoting **innovation, quality, sustainability, and technological advancement**, while contributing to the growth and success of mushroom growers and businesses.

OUR MISSION

To provide innovative, reliable, and high-quality solutions that empower customers to achieve greater productivity and success in mushroom cultivation while creating sustainable value for the industry.

At SMBiotech Mushrooms Pvt. Ltd., we don't just support mushroom cultivation — we help build the future of the mushroom industry.

Director's Message



Mr. Shashank Maheshwari
ME Biotechnology
BITS Pilani

In today's rapidly globalizing and highly competitive business environment, we at **SM Biotech** understand that meeting and exceeding customer expectations is essential to the success and sustainable growth of our organization. The years of experience and progress we have gained have been significant milestones in our journey, reflecting our continuous commitment to delivering excellence and achieving the highest levels of customer satisfaction.

On behalf of **SM Biotech**, I would like to express my sincere gratitude to our valued customers, trusted dealers, reliable suppliers, and business partners for their continued confidence and support. I would also like to extend special appreciation to our dedicated employees, whose enthusiasm, hard work, and commitment have played a vital role in establishing and strengthening our organization.

Our greatest strength lies in our people. The growth and leadership of SM Biotech are the direct result of the collective efforts, expertise, and dedication of our employees. With the support of our highly trained engineers and skilled professionals, we apply specialized knowledge, advanced technology, and industry expertise to deliver reliable, efficient, and high-quality products and services.

We operate in an ever-changing market environment, where customer expectations and technological advancements continue to evolve. In such circumstances, we firmly believe that **trust is the foundation of every successful and long-lasting relationship**. Our commitment to quality, reliability, transparency, and excellent service helps us build strong partnerships and create a true **win-win relationship** with our customers.

Our range of products and solutions incorporates modern technology and is supported by a strong commitment to service excellence. Through continuous improvement and innovation, we strive to provide dependable solutions that contribute to the growth of industries, businesses, and communities.

As we look towards the future, we remain committed to continuous growth, innovation, quality, and customer satisfaction. I would like to once again thank everyone who has contributed their relentless hard work and dedication to bringing SM Biotech to where it is today. With your continued trust and support, we are confident that we will continue to grow, innovate, and achieve new milestones in the years ahead.

Together, we will continue to build a stronger, more innovative, and sustainable future.

WHY CHOOSE US?

Complete Mushroom Farming Solutions Under One Roof

At **SMBiotech Mushrooms Pvt. Ltd.**, we provide complete, reliable and customized solutions for commercial mushroom farming. From **compost preparation and pasteurization to spawning, bag filling, growing rooms, climate control and post-harvest management**, we offer a complete range of mushroom farming machinery and infrastructure.

With our expertise in mushroom machinery manufacturing, automation and project development, we help customers build efficient and scalable mushroom farming projects according to their production capacity, available space and budget.

WHY SM BIOTECH?

❖ COMPLETE SOLUTION UNDER ONE ROOF

From project planning to machinery installation, we provide integrated solutions so customers do not have to coordinate with multiple suppliers.

❖ WIDE RANGE OF MACHINERY

We offer machinery for composting, pasteurization, spawning, filling, growing rooms, climate control, laboratory work, storage and post-harvest processing.

❖ CUSTOMIZED AS PER YOUR PROJECT

Every mushroom farm is different. We design machinery and systems according to production capacity, room dimensions, available space and customer requirements.

❖ AUTOMATIC & SEMI-AUTOMATIC TECHNOLOGY

Our machinery can be provided in automatic, computerized and semi-automatic configurations, depending on the customer's production requirements and budget.

❖ COMPLETE PROJECT CONSULTANCY

We support customers with project planning, project report preparation, site mapping, farm layout, PUF/PIR panel rooms, composting unit setup and machinery installation.

❖ ADVANCED CLIMATE CONTROL

Our AHU and environmental control solutions are designed for controlled mushroom-growing conditions, helping manage temperature, humidity, fresh air, air circulation and CO_2 requirements according to the growing process.

❖ NEW FARM & OLD FARM AUTOMATION

Whether you are starting a new mushroom farm or want to upgrade an existing farm, our team can provide suitable automation and machinery solutions.

❖ EXPERIENCED TECHNICAL TEAM

Our technical team works on machinery design, manufacturing, installation and project implementation with a focus on practical mushroom-farming requirements.

❖ QUALITY & RELIABILITY

We focus on robust machinery, practical engineering and reliable systems designed for commercial mushroom farming operations.

❖ PROJECTS FOR DIFFERENT CAPACITIES

Our solutions can be customized for small, medium and large commercial mushroom farms, allowing customers to expand their production as their business grows.

❖ TECHNICAL & FARMING SUPPORT

We don't only supply machinery. We provide technical guidance throughout the project to help customers understand the machinery, layout, process and automation requirements.

❖ DOMESTIC & INTERNATIONAL SUPPLY

Our mushroom machinery and project solutions are supplied to customers across India as well as international markets.



PRODUCT LIST

- Phase 1 Composting Bunker & Blowers
- Phase 2 Pasteurization Tunnel & Blowers
- Tunnel AHU
- Pasteurization Tunnel Doors
- Spawning & Bag Filling Machine
- Bunker Filler
- Compost Turner
- Straw Pasteurization Machine
- Bag Filling Machine
- PUF Panel Mushroom Growing Rooms
- PUF Panel Cold Rooms
- Mushroom Composting Racks
- Environment Control System- Air Handling Unit
- Cold Room & Packing Room Unit
- Portable Cooling Unit
- Water Spray Machine
- APFC & Distribution Panel
- Steam Generator
- Laminar Air Flow
- Autoclave
- BOD Incubator
- Mushroom Dryer
- Industrial Shed

Phase 1 Bunker

Bunkers are Civil constructed for phase 1 composting & aeration ducts are connected with required blowers installed at one end of bunker. A turning is given after 2-3 days from bunker 1 to bunker 2. About 3-4 turnings on each 2nd day complete the phase 1 composting. Size of the bunker depends on the quantity of compost prepared in the bunker. This phase is generally termed as chemical oxidation phase



















Phase 2 Pasteurization Tunnel

The second phase is the pasteurization phase. The compost prepared as a result of microbe mediated fermentation process need to be pasteurized in order to kill undesirable microbes & to convert ammonia into microbial protein. The whole process is carried out inside a steaming room or tunnel where an air temperature of 60°C is maintained for 4-6 hours. Damper with actuator is used to supply the fresh air in the tunnel













Spawning & Bag Filling Machine

If we talk of one technology that has benefitted the packaging industry in the past few years, it is undoubtedly automation. An automatic Spawning & bag filling machine can be very useful for any mushroom farm. This machine can help you ease your bagging in many ways.

- ❖ Layer wise spawn mixing
- ❖ Support speeds of up to 14 bags per minute
- ❖ Lower the production cost
- ❖ Low labour & maintenance cost
- ❖ High efficiency with infection free compost











Spawning &Bag Filling Machine for Oyster Mushroom



Straw Pasteurization& Bag Filling Machine



Compost Bag Filling Machine

www.mushroommachines.com || sales@mushroommachines.com

Compost Filler

Bunker Filler is used for filling composting bunkers. You can unload directly with a loader into the hopper of the machine. Then the machine doses and spreads the compost with the swivel conveyor with speed of 30MT/hr to 40MT/hr.

- ❖ It is a customised product &made according to the size of bunker
- ❖ Filling Conveyor comes with Up-down & Sideways movement
- ❖ Functionality, Safety & User-friendliness
- ❖ Time saving, low labor & maintenance cost











Compost Turner

Compost turner, sometimes called compost windrow turner, is widely used to mix and stir compost materials in commercial composting operations. It is widely used to turn organic residuals that can be turned from a waste into a useful soil through composting.

- ❖ Proper mixing of compost &there components
- ❖ Provide good aeration & maintain temperature & level in compost
- ❖ Available in three versions: Tractor/Motor based & Self-Propelled Engine based



Insulated PUF Panels

PUF panels are sandwiched panels made of polyurethane which is usually sandwiched between two metal sheets. These panels are used for mushroom growing chamber to maintain Temperature, Humidity & Co2 level in the growing room. These panels can be used at many places including cold storage, shelters, ripening chambers, office cabins, control rooms, etc.

- ❖ Lower cost & anticorrosive
- ❖ Energy saving due to low thermal conductivity
- ❖ Lighter & easy to install
- ❖ Highly durable & inexpensive






3


1


SM Biotech





Mushroom Racks

- Flexible structure to handle compost holding bags
- Corrosion resistance, no water logging & easy to assemble
- Racks are made up of MS & GI material





Mushroom Composting MS Racks with Wire Mesh





Mushroom Composting MS Racks with Flats





Mushroom Composting MS Racks with Petwire





Mushroom Composting GI Racks

Environment Control System

- Air Handling Unit (AHU) is used to maintain Temperature, Co2 level, Humidity & De-humidification & Air Circulation in the mushroom growing rooms.
- Recycling of fresh air in the growing rooms.
- Damper with actuator & filters are used to supply fresh air in the room.
- Customized and PLC-based automation options are available according to room size and project requirements.
- It comes in different capacity like 5.5ton, 11ton, 16.5ton & so on.








SM Biotech








SM Biotech
SM Biotech
SM Biotech


SM Biotech


SM Biotech


SM Biotech









Cold Room& Packing Room Units

Water Spraying Machine& Spraying Tree

- Automatic machine to maintain humidity 80-85%
- Complete cure from water logging & excess watering as spraying water in fogging/mist form using spray tree
- Easy to operate, reduce labor cost
- Low maintenance & high efficiency







APFC & Distribution Panel

APFC is an automatic power factor control panel which is used to improve the power factor, whenever required, by switching ON and OFF the required capacitor bank units automatically.

- ❖ Reduce reactive & apparent power demand
- ❖ Helps to avoid power factor surcharges & maximum demand penalties
- ❖ Reduce the risk of operational issues & power loss
- ❖ Improves power factor









Casing Blower & Steam Generator

Casing soil is a nutrient deficient medium, which helps in converting the vegetative phase into fruiting. Fruit bodies are formed in abundance and thus production is economical. It helps in conserving the environment in mushroom beds.

- ❖ Using steam generator, colour, texture, density & consistency is maintained
- ❖ Organic Process without use of any chemicals
- ❖ High productivity yield & less time-consuming process







Portable Cooling Unit:

SM Biotech Portable Cooling Unit provides efficient and uniform cooling for mushroom growing rooms. Its compact, portable design allows easy installation and movement. It helps maintain the required temperature, ensures proper air circulation, and creates a stable growing environment. The unit is reliable, easy to operate, and requires minimal maintenance.









Spawn Lab &Equipment

We assist you to install your own spawn lab to produce best quality of spawn. In Spawn lab formulation we provide all laboratory equipment and machinery such as Laminar air flow, Autoclave, Incubators etc. We also provide you trained personnel to produce mushroom spawn.





Laminar Air Flow





Autoclave





BOD Incubator

Mushroom Dryer:

Mushroom Dryer or Oyster Mushroom Dryer is used for drying oyster mushrooms at optimum temperature, humidity for best quality product. The Dryer capacity available from 25 kg & up to 500 kg per day. Also, you can use this dryer for any kind of fruit or vegetable drying as per customization.







Mushroom Dryers

Industrial Shed:

We are the manufacturer of all types of industrial sheds which are used for different storages purposes in mushroom farming. Our sheds are designed by highly qualified engineers & are cost effective, highly durable and robust in nature.







Completed Projects Globally

1. Fater Suhail Al Ziraeia Company, Saudi Arabia
   (300kg/day Mushroom Production)
2. Ostrich Nepal Pvt Ltd, Gangolia, Nepal
   (5ton/day Mushroom Production)
3. Qian Yuan White Mushroom Enterprise, Hulu Langat, Selangor, Malaysia
   (100kg/day Mushroom Production)
4. Eastern Agro, Dhaka, Bangladesh
   (Spawn Lab & Compost Unit)
5. Bahrain Mushroom Farm, Kingdom of Bahrain
   (100kg/day Mushroom Production)
6. Wanja Kanyu, Nairobi, Kenya
   (100kg/day Mushroom Production)

Completed Projects in India

Jammu & Kashmir

1. Abhimanyu Mushroom Farm, Jammu, J&K, India
   (1Ton/day Mushroom Production)
2. Sheikh Zubair Mushroom Farm, Kanispora, Baramulla, J&K, India
   (50kg/day Mushroom Production)
3. Bhat Engineering, Srinagar, J&K, India
   (200MT/Month Compost Production)

Punjab & Haryana

1. Indo Mushroom Farm, Yamunanagar, Haryana, India
   (2Ton/day Mushroom Production)
2. Funguys Foods Oyster Mushroom Farm, Tauru, Nuh, Haryana, India
   (200Kg/day Oyster Mushroom Production)
3. Mehta Agro Products, Bathinda, Punjab, India
   (500kg/day Mushroom Production)
4. HUSC Agro, Pathankot, Punjab, India
   (100kg/day Mushroom Production)

Uttarakhand

1. Herbstar Mushroom Farm, Haldwani, Uttarakhand, India
   (200kg/day Mushroom Production)
2. The Himalayan Farms, Haldwani, Uttarakhand, India
   (200kg/day Mushroom Production)
3. Hemagiri Farm Pvt Ltd, Haldwani, Uttarakhand, India
   (400kg/day Mushroom Production)
4. KCS Mushroom Farm, Rudrapur, Uttarakhand, India
   (300kg/day Mushroom Production)
5. King Mushrooms, Haldwani, Uttarakhand, India
   (60MT/Month Compost Unit & Maintenance)

Uttar Pradesh

1. Red Giants Star Projects, Varanasi, Uttar Pradesh, India
   (500kg/day Mushroom Production)
2. SS MyCo Harvest LLP, Greater Noida, Uttar Pradesh, India
   (850kg/day Mushroom Production)
3. Terraspore LLP, Lucknow, Uttar Pradesh, India
   (500kg/day Mushroom Production)
4. Annpurna Mushroom Farm, Shahjahanpur, Uttar Pradesh, India
   (300kg/day Mushroom Production)
5. Parth Mushroom Farm, Lucknow, Uttar Pradesh, India
   (500kg/day Mushroom Production)
6. Rampur Agro, Rampur, Uttar Pradesh, India
   (500kg/day Mushroom Production)
7. Indian Potash Limited, Village Rohana, Muzaffarnagar, Uttar Pradesh, India
   (Bio Compost Mixing & Bagging Machine)

Bihar

1. Deepak Mushroom Farm, Patna, Bihar, India
   (100kg/day Mushroom Production)
2. Organic World Mushroom Farm, Patna, Bihar, India
   (100kg/day Mushroom Production)

Rajasthan

1. BMS Organic, Alwar, Rajasthan, India
   (500kg/day Mushroom Production)
2. Vikas Naga, Jaipur, Rajasthan, India
   (50MT/Month Compost Production)
3. MPUAT Composting Unit, Udaipur, Rajasthan, India
   (45MT/Month Compost Production)

Jharkhand

1. Pure Foods, Ranchi, Jharkhand, India
   (650kg/day Mushroom Production)
2. SS TechFarming India Pvt Ltd, Bokaro, Jharkhand, India
   (150kg/day Mushroom Production)
3. WhitefarmAgrokart, Ranchi, Jharkhand, India
   (100kg/day Mushroom Production)
4. Neel Mushrooms, Tatanagar, Jharkhand, India
   (200kg/day Mushroom Production)

Meghalaya

1. Megha Food Cooperative Society Ltd, Mendipathar, Meghalaya, India
   (Spawning & Bag Filling Machine & 50kg/day Mushroom Production)

Odisha

1. Sri Vijaya Ganapathi Mushroom, Parlakhemundi, Odisha, India
   (400kg/day Mushroom Production)
2. Ganga Bhumi Mushrooms, Nabarangpur, Odisha, India
   (500kg/day Mushroom Production)
3. Chandrama Mushroom Farm, Sonepur, Odisha, India
   (500kg/day Mushroom Production)
4. AD Agro Farms, Jajpur, Odisha, India
   (500kg/day Mushroom Production)

Andhra Pradesh & Telangana State

1. Aara Agro Farms, Hyderabad, Telangana State, India
   (3Tons/day Mushroom Production)

Karnataka

1. Kutelu Mushrooms Mangalore, Karnataka, India
   (200kg/day Mushroom Production)

Tamil Nadu

1. Greenness Agro Farm,Tiruppur, Tamilnadu, India
   (300kg/day Mushroom Production)

SM Biotech®

MUSHROOMS PVT LTD

NOURISHING NATURE, ENRICHING LIFE

CONNECT WITH US

Address : 7km, Bhopa Road, Makhiyali, Muzaffarnagar, U.P-251001, India

Contact No : +91-7037541005/ 8171599292

Website : www.mushroommachines.com

Mail : sales@mushroommachines.com

SCAN FOR WEBSITE

SCAN FOR YOUTUBE



Together for a Greener Tomorrow