

1. A crisp, small and brief paragraph highlighting the most significant achievements and actual benefits accrued to the farmers during the year 2022-2023 (max 500 words)

Mushroom are vitamin D and folic acid rich fruiting body of fungi visible. These are low-cost health food, nutraceutical in nature having massive agro-waste conversion ability, highest producer of protein per unit area & time, is highly suitable as a tool for developing rural entrepreneurship through sustainable development in compliance with UN sustainable goals SDGs for zero hunger, health & wellbeing.

Bio-conversion of Assam's surplus agro-waste of 2.74 million tons to 1.37 million tons of mushroom for potential annual turnover of 21,117 crores. With the alarming growth of global population, proportionate growth of food and nutrition is always remained a prime concern. The issue becomes even more grim with the depletion of potent agricultural land and other resources along with management of solid waste which includes agricultural waste as well.

Mushroom cultivation is found to be popular answer to all the above concerns and which stands as a quality food, requires less land and can be a tool to manage agricultural waste. Diversification in any farming system imparts sustainability. Mushrooms are one such component that not only impart diversification but also help in addressing the problems of quality food, health and environmental sustainability.

Consumption of mushroom on daily basis boost the health of the consumer. The attributes are good for heart (no bad cholesterol), low calorie food (good for diabetic patient), prevents cancer (especially prostate and breast cancer), anti-aging, regulates digestive system, strengthen immunity, having anti-cholesterol compound like lovastatin. Mushroom like *Trametes versicolor* synthesize Polysaccharide-K (Kresin) which is a leading anti-cancer drug. Consumption of basic mushrooms are good for expecting and lactating mother.

Virtues like minimal resource requirement, very low capital investment, less water requirement, less land requirement and wide availability of organic agro-waste and presence of potential domestic and international market make mushroom farming as a model tool for Stand up India, Start up India and Atmanirbhar Bharat concept with consumptive, non consumptive, nutraceutical and value addition of mushroom products along with their online and offline mode of marketing.

The Biotech-Krishi Innovation Science Application Network for upliftment of cultivation of basic mushroom, value added mushroom products and spawn production for rural entrepreneurs of Kokrajhar, Chirang, Baksa and Udalguri districts of Assam for livelihood generation was a flagship project for the development of mushrooming and its marketing in BTR and rest of Assam. The total number of demonstration done under this project is 12, number of interventions is 4, number of training programme conducted is 56, no of district covered under the project is 5 including two aspirational district, no. of farmer beneficiaries is 1926, no. of success stories is 52, no. of successful bio-entrepreneurs is 12, and no. of village covered is 317. Along with mushroom entrepreneurship development, one entrepreneurship development programme in pearl cultivation was also conducted.

The one district one product (ODOP) of Kokrajhar district is mushroom.

2. **Number of direct and indirect farmers beneficiaries (including women and SC/ST farmers) during the year 2022-2023 (max 100 words) :: 757**

Total number of village covered during basic mushroom training:

Sl no	Month	District	Beneficiaries	Total beneficiaries	No. of village covered	Total Village covered during month
1	July,2022	Udalguri	68	218	25	66
		Baksa	59		26	
		Kokrajhar	41		1	
		Chirang	50		14	
2	August,2022	Udalguri	110	319	18	46
		Baksa	63		6	
		Kokrajhar	105		11	
		Chirang	41		11	
3	September, 2022	Udalguri	149	370	33	81
		Baksa	86		20	
		Kokrajhar	99		23	
		Chirang	36		5	
4	October, 2022	Udalguri	0	244	0	36
		Baksa	0		0	
		Kokrajhar	217		28	
		Chirang	27		8	
5	November	Udalguri	134	775	28	87
		Baksa	102		9	
		Kokrajhar	435		44	
		Chirang	104		6	
Total till date				1926		317

The district of Baksa is now bifurcated into district of Baksa and Tamulpur. So now the total district covered is 5.

3. **Number of training programmes / events organized during the year 2022-2023 (max 100 words)::53**

Basic mushroom training: 50
 Medicinal mushroom training: 1
 Spawn cultivation training: 1
 Mushroom value addition training: 1

4. **Number of rural entrepreneurs developed during the year 2022-2023 (max 100 words)**

Till now established entrepreneur are 12.
 But there are numerous trainees who are currently producing mushroom and selling them

5. 4-5 good quality high-resolution colour photographs along with their captions (in EPS / TIFF format).





