## FAQs on Paddy straw mushroom (Volvariella volvacea) cultivation

Sl. No.	Question	Answer
1.	What is paddy straw mushroom?	Paddy straw or straw mushroom is scientifically known as <i>Volvariella</i> and the commonly cultivated species is <i>V. volvacea</i> . Other important cultivated species are <i>V. diplasia</i> and <i>V. esculenta</i> .
2.	What is the nutritional value of this mushroom in comparison to other popularly cultivated mushrooms?	Nutritionally this mushroom contains highest level of protein (3.90% on fresh wt basis), good amount of potassium, iron, calcium, vitamins of B complex.
3.	What are the climatic conditions required for its cultivation?	Paddy straw mushroom is a warm temperature loving mushroom, hence can be cultivated in the temperature range of 28 to 38°C and relative humidity (RH) of 57-60%. Ideal temperature for spawn run is 30-35°C, while 28-32°C for fruiting. RH of 80-85% is ideal for both spawn run and fructification.
4.	What are common substrates used for cultivation of paddy straw mushroom?	Paddy straw is the most common substrate for this mushroom hence it is known as paddy straw mushroom. However, it can also be cultivated on cotton waste, cotton ginning mill waste, cotton spinning mill waste, sugarcane bagasse, banana pseudostem etc.
5.	What are different methods of paddy straw mushroom cultivation?	Paddy straw mushroom can be cultivated both outdoor as well as indoor in side thatched huts or pucca houses. The common method for its cultivation is by using chemically treated/steam treated /steam pasteurized paddy straw bundles of 45 cm × 15 cm (L × B). Mushroom beds can be prepared by opening 3 bundles in one direction, followed by opening of other 3 bundles in just opposite direction and like wise. The ideal bed size is 1.5 ft <sup>3</sup> . The other method is the indoor method where in the substrate (paddy straw or cotton waste) is composted 4 days outdoor followed by 4 pasteurization/conditioning inside the cropping room itself.
6.	What are the specific advantages of paddy straw mushroom?	First of all it is a high temperature living mushroom; mean can be cultivated major parts of the country. Secondly, it is considered as most tasty mushroom among the edible mushrooms. Thirdly it has the shortest cropping cycle and one crop cycle is completed with 20-25 days. Lastly its cultivation technology is very simple and can be cultivated both outdoor as well as indoor.
7.	What are the regions in the country where it is popularly cultivated?	Orissa is the leading state, where it is cultivated mainly out door under the shadow of coconut, chesew, mango, banana and teak trees. Besides Orissa, this mushroom is also popular in states of West Bengal, Chhattisgarh, Jharkhand, Bihar, Andhra Pradesh, Tamil Nadu etc.

8.	What are different diseases	This mushroom being very fast in growing usually does not invite
	and insect pests of paddy	many diseases if handled properly. However, <i>Coprinus</i> sp. and
	straw mushroom?	Trichoderma sp. are the common competitor moulds, which
		appear because of inefficient substrate pasteurization treatment or
		excessive use of nitrogen sources or watering. Among the insect-
		pests phorids and mites are the common insect pests of this
		mushroom. Nematodes infestation also causes crop losses in
		certain cases.
9.	What are the marketing	Marketing is not the problem in the region where it is popular and
	prospective of paddy straw	is being sold mainly as fresh. However, world trade is being done
	mushroom?	in canned form. Marketing in new area certainly needs great
		efforts.
10.	Is spawn of paddy straw	The spawn of this mushroom can be booked by placed advance
	mushroom is easily	order and availability of high yielding strains is not is problem.
	available?	
11.	What is the economics of	One bed of paddy straw mushroom prepared from paddy straw
	this mushroom?	costs around Rs. 20-22 and it can yield 1-1.250 kg fresh
		mushroom, which costs around Rs 50-60; net saving of Rs. 30-
		38/bed.
12.	What is the optimum size	Here farm size mean quantity of straw to be used because
	of farm needed for	mushroom can be cultivated in tier system or out door under the
	sustaining a average Indian	shadow of trees. So 9 ton of paddy straw in one month can
	family?	generate an income of Rs. 20, 000/month.