

Starting certificate course in Mushroom Cultivation  
at College of Agriculture, Navsari Agricultural  
University, Waghai

જાહેરનામું નં. ૮૩૯ /૨૦૨૩

આથી સંબંધકર્તા સર્વે ને જાણ કરવામાં આવે છે કે તા.૩૦ /૧૨/૨૦૨૨ રોજ નવસારી ખાતે મળેલ સંચાલક મંડળની ૪૮ મી બેઠકની કાર્યનોંધ ના મુદ્દા ક્રમાંક ૪૮.૦૮ થી નીચેની વિગતે ઠરાવ કરેલ છે.

“Resolve to approve certificate course in Mushroom Cultivation at College of Agriculture, Navsari Agricultural University, Waghai as per as per Annexure I”

જા.નં. નકૃયુ/કૃમવ-વઘઈ/જાહેર નામું/૧૨૦-૧૯૦ /૨૦૨૩  
તા. ૧૧.૦૧.૨૦૨૩

આચાર્ય  
કૃષિ મહાવિદ્યાલય  
નવસારી કૃષિ યુનીવર્સિટી, વઘઈ

નકલ સવિનય રવાના

૧. સંચાલક મંડળ ના તમામ સભ્યશ્રીઓ તરફ
૨. યુનીવર્સિટી ના તમામ અધિકારીશ્રીઓ તરફ
૩. તમામ યુનિટ/સબ યુનિટ અધિકારીશ્રીઓ તરફ

નકલ રવાના

૧. કુલપતિશ્રીના રહસ્ય સચિવશ્રી, નવસારી કૃષિ યુનીવર્સિટી, નવસારી
૨. કુલસચિવશ્રી ની કચેરીની બોર્ડ ઓફ મનેજમેન્ટ શાખા તરફ (૧૦ નકલમાં)
૩. કુલસચિવશ્રી ના રહસ્ય સચિવશ્રી, નવસારી કૃષિ યુનીવર્સિટી, નવસારી
૪. કુલસચિવશ્રી ની કચેરીની એકેડેમિક/પરીક્ષા શાખા
૫. અત્રેની કચેરીની જાહેરનામાં ફાઈલ



## PROPOSAL FOR

### CERTIFICATE COURSE ON MUSHROOM CULTIVATION AT COLLEGE OF AGRICULTURE, NAU, WAGHAI



*Submitted by*

**College of Agriculture  
Navsari Agricultural University  
Waghai – 394 730  
The Dangs, Gujarat**

**PROPOSAL FOR**  
**CERTIFICATE COURSE ON MUSHROOM CULTIVATION AT COLLEGE OF**  
**AGRICULTURE, NAU, WAGHAI**

1. **Name of the University** : Navsari Agricultural University, Navsari
2. **Title of the Project** : Certificate course on mushroom cultivation at  
College of Agriculture, NAU, Waghai
3. **Name of the College with address** : College of Agriculture,  
Navsari Agricultural University,  
Waghai - 394 730, Dist.-The Dangs, Gujarat.

**4. Introduction:**

The Dangs is the smallest tribal dominating district of the Gujarat State has total geographical area of 1,72,366 hectare(*i.e.*1736 sq km). Out of which the forest area is about 59.74% *i.e.* 1062sq km (850 sq km Reserved Forest and 212 sq km of protected forests) and only 33.80% *i.e.* 57843 ha of land comes under cultivated and cultivable fallow. The gross cropped area of Dangs district is 68523 ha with cropping intensity of 115.59 per cent. Dang is having hilly and undulating land with 18 per cent area under irrigation. There are three types of agriculture land in the Dangs, black cotton, laterite and rocky. Red soil is found on the upper parts of the valley and black soil is found in the plains of western Dangs. In some parts medium loam to sandy loam type is found. The total cultivators in the Dangs are 11197 and the agricultural labourers are 11712. The cropping pattern of the district is mostly single *rainfed* crops. The major crops in *kharif* are Paddy, Finger millet, little millet, Sorghum, Black gram, pigeon pea, etc. Other crops grown in *Rabi* and summer are Niger, Cole crops, cucurbits, okra, chilies, tomato, onion, potato, mushroom, mango & Cashew. Annual rainfall ranges from 2000-2500 mm, with 50-55 rainy day but is erratic in nature. There are total 11197 farm families among them 1358 families having marginal land holding (730 ha) , 1669 families having small holding (2521 ha.), 2933 families having semi medium holding (8627 ha), 4148 families having medium land holding (26233 ha.) and 1089 families having large holding (15486 ha). The large area is under *rainfed kharif* crops and the number of agricultural labourers is higher so seasonal

unemployment during *Rabi* and summer season more. Due to unemployment during *Rabi* and summer season farmers and agricultural labours migrate to the other district for sugarcane harvesting and other works.

Farmers/rural youth being an integral part of the Indian agricultural workforce and their inbuilt futuristic outlook and creativity can definitely change the way of skilling the workforce around the world. Skilling rural youth is indeed a small but definitely a change-maker towards skilling the Nation.

Agriculture being the backbone of Indian economy and contributing a major share of GDP, has not received its due credit. There are huge prospects skill developments in training tribal youth of the Dangs in various enterprises. Among them Mushroom cultivation is the most promising enterprise, which in turn provide an important source of livelihood to the tribal youth.

Mushroom is an edible fungus. Dangs district is having large diversity of mushrooms. The number of edible species of mushroom especially *Arim* and *vasarta* found naturally. There is good potential of cultivating oyster mushroom, milky and mushroom and Paddy straw mushroom. The substrates required for growing all these mushrooms i.e. Paddy, Nagli *etc.* is easily available. Mushroom cultivation can provide good income to the grower. The infrastructure facility available at center can be utilized for mushroom cultivation

This project proposal is for trained the tribal youth in mushroom cultivation and make them empower to sustain their livelihood.

## **5. Objectives:**

1. Imparting skill to farm men and women of different categories (unskilled, semi-skilled and skilled workers, and farm housewives) to sustain their livelihood.
2. Improvement of incomes, standards of living, employment opportunities, working conditions and prospects of advancement in agriculture as a contribution towards remedying the lack of balance between agriculture and other occupations in these respects;
3. Overcoming of problems of seasonal unemployment and of underemployment in agriculture.

## 6. Budgetary requirements:

SN	Particulars	Amount (Lakhs)/year	Brief justification
<b>A.</b>	<b>Land</b>		
	Land	--	Available with the University
<b>B.</b>	<b>Works</b>		
	Building	--	Available with the University
<b>C.</b>	<b>Non Recurring (Equipment)</b>	--	Available with the University
<b>D.</b>	<b>Recurring</b>		
<b>I</b>	Contractual man power	-	Technical expertise is available with college
<b>II</b>	Contingent Expenditure	--	The contingent expenditure will be made from the plan schemes and other schemes in the college
	<b>Grand Total</b>	--	

## 7. Output/Outcome:

1. Generate middle level technicians/ man power for agro-based industry which will provide employment to rural youth especially of tribal area which in turn improve their standard of living.
2. Unemployed/ underemployed rural youth will be productive which will help in enhancing nation's prosperity.

## Programme Structure

**Module 1:** Introduction: Importance of Mushroom, scope, past, presents status & future prospects.

**Module 2:** Pros & cons in Mushroom cultivation: why the Mushroom cultivation? Problem of mushroom cultivation and its remedies.

**Module 3:** Spawn production and spawning

**Module 4:** Management of spent substrates and waste disposal of various mushrooms

**Module 5:** Cultivation technology for button Mushrooms

**Module 6:** Cultivation Technology for oyster mushroom

**Module 7:** Cultivation Technology for milky mushrooms

**Module 7:** Cultivation Technology for *Reishi* mushrooms

**Module 8:** Pests and diseases of mushrooms and their management

**Module 9:** Harvesting, storing and value added products from mushroom

**Module 10:** Entrepreneurial skills and economics for small enterprise

**Module 11:** Marketing of mushrooms and special assignment

**Module 12:** Case studies

**Eligibility:** 10<sup>th</sup> Pass

**Age limit:** Age should be above 15 years (On date of admission)

**Programme Duration**

The total duration of this programme is **three months**

**No. of students/ batch: 25**

**No of courses/year: Two**

**Registration:**

The admission to the course will be displayed on Navsari Agricultural University, Navsari website: *nau.in* Admission will be given on merit bases of standard 10<sup>th</sup> result.

**Fees:**

Rs. 3000 per student

Free residential facility is provided to students (Food and electricity charges are not included)

**Examination & Certification:**

It is a credit system based on all learning activities involved in studying for this Certificate Programmes. To successfully complete the programme, one has to earn all the credits assigned in programme.

All the participants are obliged to timely submit assignment and appear for examination at the end of the course. After successful completion, the participants will be awarded Certificate.