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སྐྱེ་ཁམས་ལས་ཁུངས་། རྒྱལ་ཡོངས་ཤིང་ལྗང་སྤྱོད་
མང་ཆུ་ལྷན་ཁག་

MINISTRY OF AGRICULTURE AND LIVESTOCK
DEPARTMENT OF AGRICULTURE
NATIONAL MUSHROOM CENTRE
WANGCHUTABA, THIMPHU



EXPRESSION OF INTEREST

Integrated All-in-One Climate Control Machine for Commercial Mushroom Growers

Offered on a cost-sharing basis

Reference	Key dates
EoI No.: [NMC/EOI-02]	Date of issue: [15 Oct 2026]
Disbursement modality: [CSM]	Last date for submission: [15 Nov 2026]

1. About this call

The National Mushroom Centre (NMC) under the Department of Agriculture (DoA) invites commercial mushroom growers, be it beginners/experienced, to submit an Expression of Interest (EoI) to avail an Integrated All-in-One Climate Control Machine. The machine will be provided on a cost-sharing basis under the Updated Cost Sharing Mechanism Guideline 2025 (CSM 2025) for the Agrifood Sector of the Ministry of Agriculture and Livestock (MoAL).

2. What you will receive

An integrated all-in-one mushroom climate control machine is a single, smart machine weighing about 400 to 500 kg depending on capacity, that acts like an artificial weather system for a mushroom growing room. Instead of requiring separate fans, heaters, and sprayers, this single box automatically monitors and adjusts the temperature, humidity, fresh air, and carbon dioxide (CO₂) levels round the clock. By keeping the environment perfectly stable and clean, it eliminates manual guesswork and can help farmers achieve significantly higher yields and consistent, high-quality harvests regardless of the weather outside. The main features of the particular machine you will avail are:

- Cooling capacity of not less than 15 kW and heating capacity of not less than 17 kW.
- Built-in humidifier that can hold humidity up to 95%.
- Sensors for temperature, humidity and CO₂, with automatic control.
- Air ducts, fog ducts and filters fitted to your grow room.

The supplier selected by NMC will install, test and commission the machine at your farm. You and your workers will get hands-on training on how to use it. The machine will have at least one year of warranty from the date of commissioning.

You are welcome to visit NMC, Wangchutaba, to see first-hand a similar machine under operation to help you make your decision.

3. Cost sharing

Item	Who pays
Machine, including installation, testing and training	Shared: [40]% by Government and [60]% by the grower, as per CSM 2025
Grow room (insulated chamber) and site preparation	Grower
3-phase electricity connection and water supply up to the machine	Grower
Electricity bills, routine maintenance and repairs after the warranty period	Grower

At this stage, the actual cost of the machine has not yet been determined, as procurement will be conducted through a competitive tendering process. The final cost will depend on the lowest evaluated responsive bid.

For illustration, if the machinery costs **Nu. 10 lakhs**, the government will contribute **Nu. 4 lakhs (40%)**, while the beneficiary grower will be required to contribute **Nu. 6 lakhs (60%)**. This amount is purely hypothetical, and the actual contribution may be higher or lower depending on the final procurement cost. Applicants are encouraged to read CSM 2025 before applying. It is available on the MoAL website (www.moal.gov.bt).

4. Who can apply

This call is open to commercial mushroom growers in Bhutan, be it beginner or experienced, the entities can be - individuals, groups, cooperatives and registered firms may all apply. To be considered, you should have:

- A grow room (e.g. Length 12 m x Breadth 4.5 m x Height 3 m) should be ready by the time supplier comes and installs and commissions the machine, latest by mid of March 2027.
- A 3-phase electricity connection at the grow room, or written approval for one.
- A steady water supply for the humidifier.
- The money to pay your cost share.

5. How to write your EoI

Please write your EoI under the headings below, in the same order. Short, clear answers with real numbers are better than long ones. The committee will score you mainly on what you write here and, on the documents, you attach (see Section 7).

No.	Heading	What to write
1	Executive summary	In a few lines, tell us who you are, what you grow now, and how the machine will change your production.
2	Location of the project	Village, Chiwog, Gewog, Drungkhag/Dzongkhag, or city/town. Add the distance from the nearest motor road.
3	Brief overview of your farm or enterprise	Year you started, mushroom species you grow, how much you produce now (kg per month or per year), number of workers, and your plans to expand.

No.	Heading	What to write
4	Experience	It is not necessary to have prior experience in mushroom cultivation. However, experience is added advantages. Your qualifications, training received and years of mushroom growing. Mention how you check quality and handle contamination.
5	Production plan	Which mushrooms you will grow in the climate-controlled room, how many cycles per year, and how much you expect to harvest each year. Explain how you will get spawn and substrate.
6	Market	Who buys your mushrooms now, at what price, and where you will sell the extra production.
7	Infrastructure and facilities	Size of your grow room (length × width × height), wall and roof material, electricity connection (single or 3-phase) and water source. If you have grow room please attach photos.
8	Financial capacity and cost-sharing contribution	How you will pay your share (own savings, loan or other source), and how you will cover electricity, maintenance and repairs.
9	Commitment	Your commitment to keep the machine running and well maintained, keep production records, follow good hygiene and allow NMC to monitor and support you.

6. Documents to attach

1. Cover letter addressed to the Program Director, National Mushroom Centre, Department of Agriculture, Ministry of Agriculture and Livestock.
2. Filled-in Application Form (Annex 1), signed.
3. Copy of Citizenship ID card of the applicant, or of the authorised person for a group, cooperative or firm.
4. Copy of business/trade license or registration certificate, if you have one.
5. Proof of land ownership or lease agreement for the grow room site.
6. Photos of the grow room, inside and outside, if already constructed
7. Proof of 3-phase electricity connection (recent electricity bill or approval letter).
8. Production or sales records for the last one years, if experienced growers.
9. Proof of how you will pay your cost share (for example, bank statement or loan approval letter).

7. How applications will be assessed

A committee of five members from NMC and DoA will assess each EoI using the criteria below. The committee may also visit shortlisted farms to check the grow room and facilities.

No.	Criteria	What the committee looks for	Marks
1	Infrastructure and facilities	A PUF panel or equally insulated grow room, 3-phase electricity and a reliable water supply, ready for the machine. If not yet build, mention your strategy and plan	20
2	Financial capacity and cost sharing	Ability to pay the cost share and to cover electricity, maintenance, repairs and other running costs	15

No.	Criteria	What the committee looks for	Marks
3	Experience and track record	Proven experience in mushroom production and in maintaining quality standards	5
4	Technical and operational capacity	Knowledge of mushroom cultivation, mycology and climate management, and ability to operate and look after the machine	5
5	Production plan	A realistic plan for year-round production with a clear annual target	15
6	Market understanding	Knowledge of demand and buyers, and a clear plan to sell the extra production	15
7	Commitment	Commitment to continuous production, proper operation and maintenance, hygiene, record keeping and NMC monitoring	15
8	Sustainability and compliance	Good labour and environmental practices, and the licences and permits needed for mushroom production and sale	5
9	Collaboration with research	Willingness to work with NMC and research institutions, share data and host demonstrations	5
	Total score		100

8. If you are selected

- You will sign an agreement with NMC as per CSM 2025.
- **You will pay your cost share to NMC by the date given in your selection letter.**
- Your grow room, power and water connection must be ready before the supplier arrives to install the machine.
- You and at least one worker will attend the training during installation.
- You will keep simple production records and share them with NMC when asked, and allow NMC staff to visit for monitoring and support.

9. Submission and contact

Submit your EoI with all attachments in a sealed envelope marked **“EoI for All-in-One Climate Control Machine”** to the National Mushroom Centre, Wangchutaba, Thimphu, on or before 12th November 2026. Late or incomplete EoIs will not be considered.

For more information, please contact the National Mushroom Centre during office hours:

- Chencho Dukpa, Program Director: +975 17650075
- Pem Choden Tamang, Extension Program Head: +975 77676167

NMC may reject any EoI or cancel this call without giving reasons. Applicants bear all costs of preparing and sending their EoI.

Annex 1. Application Form

A. Applicant details

Details	Fill in
Name of applicant / enterprise	
Type (individual, group, cooperative, firm)	
Citizenship ID No. (applicant or authorised person)	
License / registration No. (if any)	
Phone and email	
Village, Chiwog, Gewog, Dzongkhag	
Year mushroom growing started	
Mushroom species grown now	
Current production (kg per year)	
Number of workers	

D. Declaration

I confirm that the information given in this EoI is true. I understand that false information will disqualify my application. If selected, I agree to pay my cost share, run and maintain the machine properly, keep production records and allow NMC to monitor my farm.

Signature: _____ Name: _____

Date: _____ Place: _____