



Report on a Workshop on " Biogas Waste Management through Vermicomposte

Conducted by Dept. of Rural Technology, Dept. of Forestry, Wildlife & Environmental Sciences and Skill Development Cell, GGV, Bilaspur

Date of Event : December 14, 2023

Venue : Department of Forestry, Wildlife & Environmental Science and Mushroom Centre



GURU GHASIDAS VISHWAVIDYALAYA

Bilaspur-495009, Chhattisgarh



Prof. Alok Kumar Chakrawal
Hon'ble Vice Chancellor
G.G.V., Bilaspur (C.G.)

Department of Forestry, Wildlife & Environmental Science & Skill Development Cell

A Workshop on

"Biogas Waste Management through Vermicomposting"

Date : 14th December 2023

Venue : Department of Forestry, Wildlife & Environmental Science

Dean
Prof. S.C. Tiwari
SoS, Natural Resources

Nodal Officer
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GGV, Bilaspur

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GPS Map Camera

Bilaspur, Chhattisgarh, India
44GQ+VG7, Koni, Chhattisgarh 495009, India
Lat 22.12753°
Long 82.138826°
14/12/23 03:16 PM GMT +05:30

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Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
14-12-2023	Biogas Waste Management Through Vermicompost	Dr. Dilip Kumar (Assistant Professor) Dept. of Rural Technology	76

A Brief Abstract of the Event (Maximum 500 Words):

****Introduction:****

On 14-12-2023, a workshop titled 'Biogas Waste Management through Vermicomposting' was conducted at Department of forestry, wildlife & environmental sciences. The workshop aimed to educate participants about the effective utilization of biogas waste as a substrate for vermicomposting, thereby promoting sustainable waste management practices. This report outlines the key discussions, presentations, and outcomes of the workshop under the supervision of Dr. Dilip Kumar.

****Objectives:****

1. To introduce participants to the concept of vermicomposting and its role in organic waste management.
2. To demonstrate the process of vermicomposting using biogas waste as a feedstock.
3. To provide practical training on setting up and maintaining vermicomposting systems for biogas waste management.
4. To discuss the environmental and agricultural benefits of vermicompost produced from biogas waste.

****Workshop Content:****

1. **Introduction to Vermicomposting:**

- Overview of vermicomposting as a biological process involving the decomposition of organic waste by earthworms.
- Explanation of the benefits of vermicompost, including improved soil fertility, moisture retention, and nutrient availability for plants.



2. ****Biogas Waste as a Substrate:****

- Discussion on the characteristics of biogas waste generated from anaerobic digestion systems and its suitability for vermicomposting.
- Presentation on the nutrient content and decomposition rates of biogas waste, highlighting its potential as a valuable substrate for earthworms.

3. ****Vermicomposting Techniques:****

- Step-by-step guidance on setting up vermicomposting bins or beds, including selection of containers, bedding materials, and earthworm species.
- Practical demonstration of vermicomposting process, including feeding, moisture management, and temperature control for optimal worm activity.

4. ****Monitoring and Maintenance:****

- Training on monitoring key parameters such as temperature, moisture content, pH, and worm population density in vermicomposting systems.
- Guidance on troubleshooting common issues such as odor, pest infestation, and excessive moisture accumulation in vermicompost bins.

5. ****Quality Assurance and Application:****

- Discussion on quality standards for vermicompost, including maturity, odor, and microbial activity indicators.
- Examples of agricultural and horticultural applications of vermicompost, emphasizing its role in soil amendment, organic fertilizer, and plant growth promoter.

6. ****Case Studies and Success Stories:****

- Sharing of case studies and success stories from farms, community projects, and institutions implementing vermicomposting for biogas waste management.
- Insights into the economic, environmental, and social benefits derived from integrating vermicomposting into biogas waste management systems.

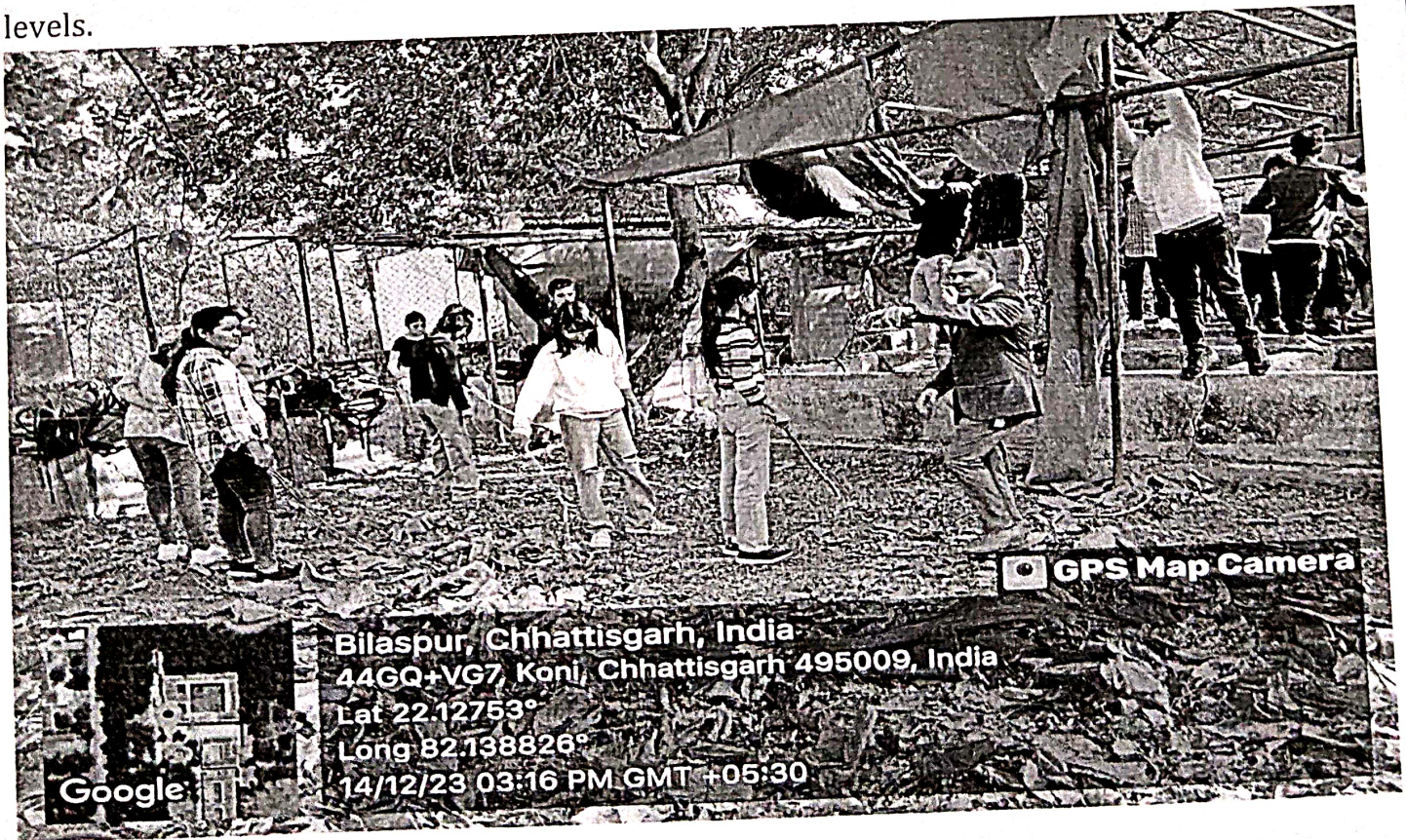
****Conclusion:****



The workshop on 'Biogas Waste Management through Vermicomposting' provided participants with practical knowledge and skills essential for implementing sustainable waste management practices. By utilizing biogas waste as a substrate for vermicomposting, participants can effectively convert organic waste into valuable vermicompost, contributing to soil health improvement and environmental sustainability.

****Recommendations for Future Action:****

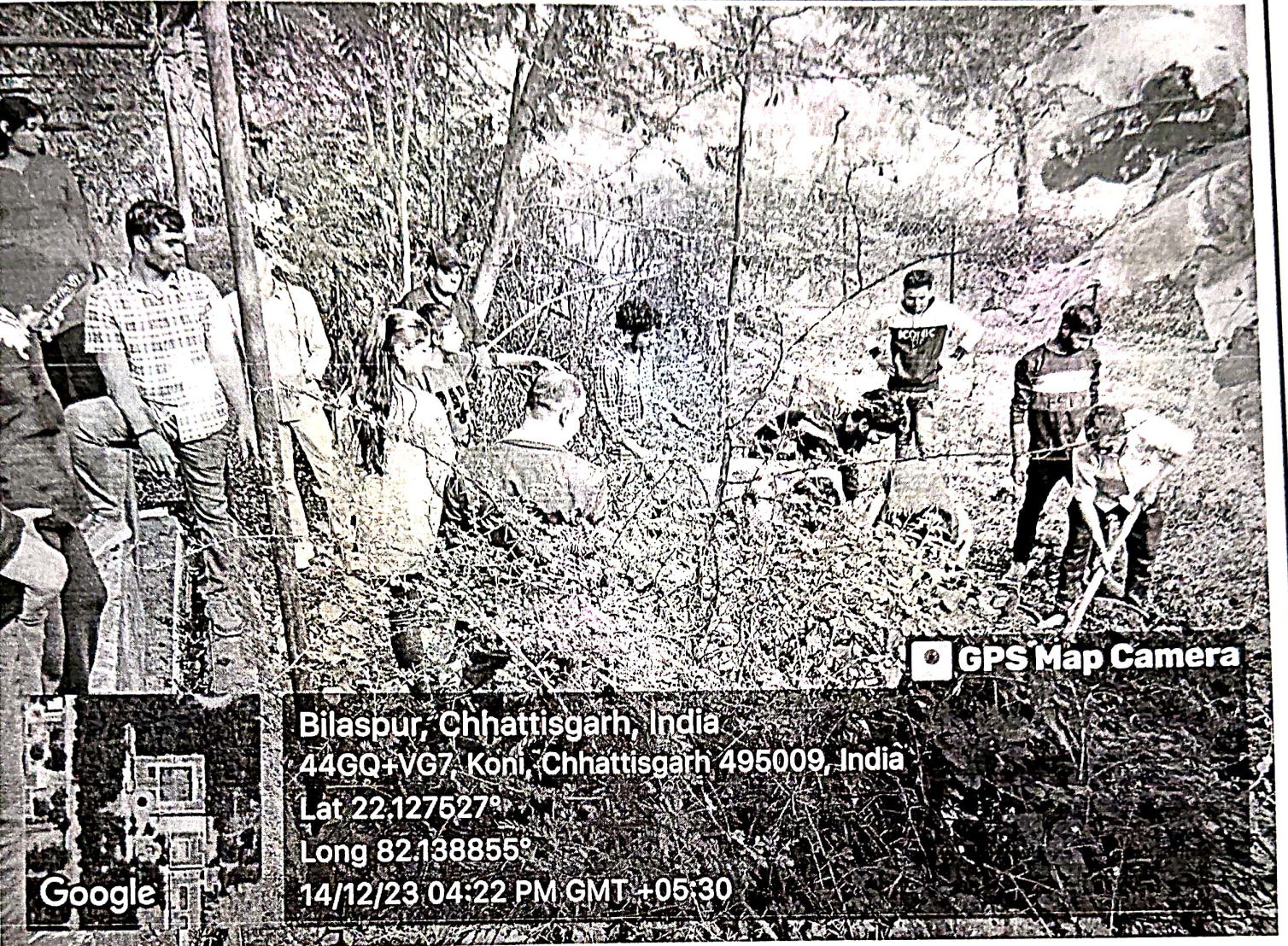
1. Encourage participants to apply the vermicomposting techniques learned during the workshop in their waste management practices.
2. Provide ongoing support and technical assistance to help participants overcome challenges and optimize vermicomposting systems.
3. Organize follow-up sessions or field visits to monitor the progress and outcomes of vermicomposting initiatives implemented by participants.
4. Advocate for policy support and incentives to promote the adoption of vermicomposting for biogas waste management at the community and institutional levels.



गुरु घासीदास विश्वविद्यालय
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 अ. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)
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