

Assembly of the Biogas plant

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Spoken Tutorial and Rural ICT Project

IIT Bombay

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Learning Objectives



Learning Objectives

We will learn how to assemble-



Learning Objectives

We will learn how to assemble-

- **Digester tank with the dome**



Learning Objectives

We will learn how to assemble-

- **Digester tank with the dome**
- **Mixing tank**



Learning Objectives

We will learn how to assemble-

- Digester tank with the dome
- Mixing tank
- **Slurry tank**



Assembly of the Biogas plant



Assembly of the Biogas plant

Now do the following-



Assembly of the Biogas plant

Now do the following-

- **Leave the dome for curing and**



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Now do the following-

- Leave the dome for curing and
- **Attach the mixing tank to the dome**



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- **Biowaste will reach the digester tank through this inlet pipe**



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Once the gas pipe is fitted-



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Once the gas pipe is fitted-

- **Plaster the dome from outside with the first coat of plaster**



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Once the gas pipe is fitted-

- Plaster the dome from outside with the first coat of plaster
- Use the following for making the plaster mixture



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An interesting fact -



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An interesting fact -

- **The dome is plastered twice**



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An interesting fact -

- The dome is plastered twice
- Both coats of plaster have different ratio of sand and cement



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- **Before entirely plastering the outer wall of the dome do the following**



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- **Ratio of cement mixture to be used is-**



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- **Plaster the outer wall of the dome for second time and**



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- Plaster the outer wall of the dome for second time and
- Inner wall of the dome as well



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- **Spray as much water is required to wet the outer wall of the dome**



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- Spray as much water is required to wet the outer wall of the dome
- Jute bags placed on the outer wall help to retain the water



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- **Plastic sheet will protect the dome from too much sunlight**



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- **This brings us to the end of Day 4**



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- **The joint between the main gas pipe and gas control valve should be perfectly air-tight**



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- **How to check if Biogas is produced?**



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- **How to avoid water condensation?**



Summary



Summary

We have learnt how to assemble-



Summary

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Summary

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- **Mixing tank**



Summary

We have learnt how to assemble-

- **Digester tank with the dome**
- **Mixing tank**
- **Slurry tank**



Acknowledgements

- This video was created by Spoken Tutorial Project with inputs from Rural-ICT Project, IIT Bombay.
- More information on these projects can be found at these links

[http://spoken-tutorial.org /NMEICT-Intro](http://spoken-tutorial.org/NMEICT-Intro)

<http://ruralict.cse.iitb.ac.in>



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