

## Compost Aerator (Maker)

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### Problem addressed:

Fertility value of well decomposed compost is well known. Decomposition can be hastened if the biomass is aerated, humidified and properly mixed. It is time consuming (about 3-4 months) and laborious task to prepare the manure. The technology for thorough mixing the compost for rapid compost mechanically is available abroad, although no such domestic product is available.

### Product:

Innovator's machine is a tractor PTO driven machine, which can thoroughly mix and moisten the bio-waste, reducing the time of decomposition from 3-4 months to 20-45 days. The revolving blades of machines mixes the waste material systematically while as fine water spray is done simultaneously by the attachment fitted with machine. After completing the first round of mixing the material is left for a day or two and process is repeated after an interval of 2-3 days so that process of natural decomposition takes place. After 4-5 days and repetition of mixing process 2-3 times, the compost is ready to use in Agriculture as natural/organic fertilizer.



### Technical

#### Specifications

- Blade 75mm x 200mm
- Hard Carbon Steel body
- Router box diameter - 16", length - 100", width - 50"
- Hydraulic Valve, Water Pump
- 200 litre water tank

#### Key Competitive Advantage:

- The machine can turn and mix biomass of size 6.5 ft x 2.5 ft (i.e. about total 1200 tons) in an hour and consumes 3.5-4.0 litre diesel for the purpose.
- The compost has better fertility value as compared to farmyard manure and vermi-compost; and it has more nitrogenous content.
- The machine maintains optimum temperature for making

	<p>compost.</p> <ul style="list-style-type: none"> <li>The machine reduces the dependency on labour, as the waste does not have to be collected in pits. The waste is spread in rows on the ground and then processed by the machine.</li> </ul>
<b>Time to deliver:</b>	20 days after receipt of 50% advance payment.
<b>Price :</b>	<b>3, 60,000/-</b> . (Ex-factory price + packaging). The price does not include transportation costs, taxes, etc.
<b>Achievements:</b>	Innovator received National Award in Sixth Biennial Competition in 2012 and was supported under MVIF scheme of NIF. Innovator was also facilitated in 2011 by Union Minister of Agriculture Shri Sharad Pawar. His work has also been recognized by various state governments, agriculture departments and universities. Innovator till now has sold more than 30 machines in all over the country.
<b>IPR Status:</b>	Indian Patent Applied For (No. 1717/DEL/2008)
<b>BD website link:</b>	<a href="http://nif.org.in/innovation/compost_aerator/598">http://nif.org.in/innovation/compost_aerator/598</a>
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