




## **COCOA FERMENTATION MINIMAL PROCESSING METHODS**

<p style="text-align: center;"><i><b>Mini Box</b></i></p>  <p>45 cm length x 30 cm width x 20 cm height with drain holes, can hold 15-20 kg wet beans</p>	<ul style="list-style-type: none"> <li>• <b>Wooden box</b></li> <li>• After filling, beans are covered with banana leaves, closed tightly with wooden lid and covered with a jute bag to maintain heat.</li> <li>• Temperature of fermentation mass rise about 42-48°C after 48 hours.</li> <li>• Mixing/ turning on alternate days for uniform fermentation, maintain proper temperature, moisture and aeration.</li> <li>• Six days (144 hours) required to complete fermentation.</li> <li>• These boxes need to be dried in sun for next season usage in high rainfall zones.</li> </ul>
<p style="text-align: center;"><i><b>Mini Basket</b></i></p>  <p>25 cm diameter and 15 cm height to hold 5-10 kg wet beans.</p>	<ul style="list-style-type: none"> <li>• <b>Bamboo/cane/baskets made of local vines.</b></li> <li>• Banana leaves are lined at the bottom to drain sweatings in a slow pace and also to cover beans at the top, closed with a lid and gunny bag and a weight can be kept over it. Banana leaves may be changed during each turning.</li> <li>• This basket with beans may be kept on a raised surface or on a tray to facilitate drainage of sweatings, which has to be cleaned.</li> <li>• These baskets should be dried in sun for next season usage in high rainfall zones.</li> </ul>
<p style="text-align: center;"><i><b>Small Tray</b></i></p>  <p>45 cm length x 30 cm width x 15 cm height with drain holes to hold 2-5 kg wet beans.</p>	<ul style="list-style-type: none"> <li>• <b>Plastic crates/ trays</b></li> <li>• Multiple trays can also be staked one above the other, if quantity of beans is more.</li> <li>• Fungal infection is less in these trays, easy to handle with less weight, washable and dryable for next usage.</li> </ul> <p><b>All methods require six days of fermentation for good bean index, industrial value and to select processable varieties.</b></p>