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## Post Harvest Mechanization Package for Banana Central Core

<i>Salient features</i>	<ul style="list-style-type: none"><li>➤ Equipment for minimal processing and juice extraction from banana central core.</li><li>➤ The package includes equipment for slicing, equipment for fibre removing, equipment for surface water removing, equipment of juicer/grinding, equipment for squeezing of juice of banana central core.</li><li>➤ Process protocol for pre-treatment of minimally processed banana central core and storage of juice from banana central core.</li></ul>
<i>Advantages</i>	<ul style="list-style-type: none"><li>✓ Generation of wealth from waste.</li><li>✓ Scope for village level entrepreneurship.</li></ul>
<i>Process Technology / Product / Machine developed by</i>	<p>Dr. Ravindra Naik, Department of Agriculture Structures and Process Engineering ICAR-Central Institute of Agricultural Engineering (CIAE), Regional centre, Coimbatore, Tamil Nadu <a href="mailto:naikravindra@gmail.com">naikravindra@gmail.com</a></p> <p>Dr. Dawn CP Ambrose, Dr. S.J.K. Annamalai, ICAR-CIAE, Re, Coimbatore, Tamilnadu</p> <p>Dr. K. N. Shiva, ICAR – National Research Centre (NRC) on Banana, Tiruchirapalli</p>
<i>Year</i>	2013-14
<i>Source of funding</i>	MoFPI
<i>More information</i>	<p><b>Status of commercialization / Patent / Publication</b></p> <p>Ruthrapriya, J.S., Naik, R. and Peter, D. 2015. Studies on pretreatment of minimally processed banana central core. Sciexplore – International Journal of Research in Science, 1(2): 110-116</p> <p>Ambrose, D.C.P. and Naik, R. 2016. Development of a process for utilization of banana waste. IMPACT: International Journal of Research in Applied Natural and Social Sciences, 4(6): 83-88</p> <p>Ambrose, D.C.P., Lakshman, R. and Naik, R. 2016. Studies on the drying kinetics and quality assessment of banana pseudostem waste for effective utilization as a value added product. Internal Journal of Farm sciences, 2: 276-285.</p>

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Shiva K.N., Adiyaman, P., Naik, R. and Marimutu, N. 2018. Development and standardization of banana pseudostem based novel functional blended ready to drink (RTD) beverages and studies on nutritional changes during storage. LS- An International Journal of Life Sciences, 7(3): 151-158

### **Commercialization**

The package of equipment has been released by ICAR CIAE for commercialization.

The technology has been identified as an activity under the agribusiness incubation (ABI) of the Institute.

The package of equipment for minimal processing and juice extraction from banana central core has been included in the Agri business activities of the Institute and results are very encouraging.

Establishment of more units can be taken up at the banana catchment area for encouraging the village level entrepreneurs.