

# Developing Nutritional Product from Musa Balbisiana (Family: Musaceae, Genus: Musa) Fruit to Combat Malnutrition

## APPLICATION

Creating nutritional supplements from indigenous banana variety that is well proven for its nutraceutical value for infants and mothers.

INNOVATOR	TECHNOLOGY READINESS LEVEL (TRL)	INTELLECTUAL PROPERTY
Sanjay Kumar Banerjee NIPER Guwahati	TRL: 4 (Proof of Concept Demonstrated)	IP filing is under progress

## PROBLEM ADDRESSED

Malnutrition, is a serious public-health problem and linked to a substantial increase in the risk of mortality and morbidity. Musa balbisiana is a banana variety is well-known for high nutritional value and strong antioxidant available in North-East India but presence of seed prevents its consumption. This variety of banana has been utilised in folk medicine since long time by the tribal people of North-east India especially by children to improve their health and growth rate. However, there is no method to separate the seeds from pulp and preserve the fruit pulp so that people with malnutrition can use through out the year.

## ABOUT THE TECHNOLOGY

The primary focus of this company is to develop Musa balbisiana fruit pulp powder, which can be stored at room temperature and supplemented in malnutrition subjects specially child or women to improve their overall health. The primary focus is the development of fruit powder and capsule using two drying techniques -tray drying process and Spray drying process. The finished product will be in the form of powder/capsule with the optimum utilization of fruits that would ensure long term use/storage.

## FUNDS RAISED/ACHIEVEMENTS

BIRAC BIG NE for INR 25 Lakhs

## END USERS/CUSTOMERS

Children between 6 month to 12 years.

## PRODUCT IMAGE



## USP

- Stable nutritional product for malnutrition
- Indigenous raw material
- Cost effective nutritional supplements