Recent Developments in Tapioca Processing industry and Future Prospects Presented by R.Sivakumar B.E.,(CHEM) Convenor: Technical Advisory Committee,(TAC) Sago serve Prop:Selvakumar Sago Factory Thammampatty Salem Dt Tamilnadu

#### Raw material

- Area of cultivation
- Tapioca Production
- Tapioca Variety
- Problem areas

### : 80000 hectares

- : 2.5 million tonnes
- : H226, H165, Mulluvadi, Kungumarose
- : CMVD, yield,
  - Shortage



	Products
Starch	: 1.7 lakhs tonnes ,
	Industrial application
	- Textile, Paper,Adhesive,Pharma
Sago	: 1.8 lakhs tonnes
	Food
Pappad	: Food
Flour	: Food & industrial purpose
Chips	: Feed & industrial purpose,
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## Production of Starch & Sago

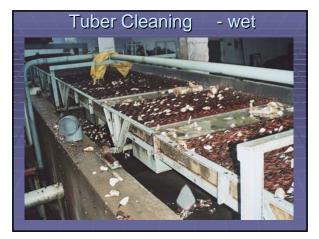


# Problems faced in the past

- Unloading
- Cleaning
- Peeling
- Rasping
- Settling
- Roasting
- Drying
- Effluent
- treatment
- Hydrocyclone
- Pulp press







### Peeling Machine

- idea to develop a proto type peeling machine developed in Nov 2004 by
- Technical Advisory Committee under the leadership of
- Mr. K.Ashok Vardhan Shetty I.A.S.,
- M.D Sago Serve
- Trial run by Jan 2008
- capacity 3.2 tons/hr
- abrasive surface Carborandum





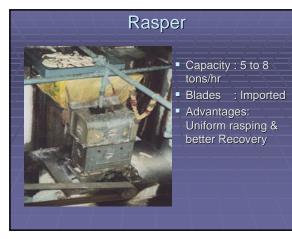






### Standardization

- Length of the rollers
- No. of the rollers
- Diameter of the roller
- Drive of the roller & helical screw
- Helical Screw diameter
- Speed of the roller & helical screw
- Bearings



### **Starch Seperation**



### Gravity Settling Seperators - Expensive



### Hydrocyclone

- Seperation of fine fibres
- Water recycle
- 40% to 50% reduction

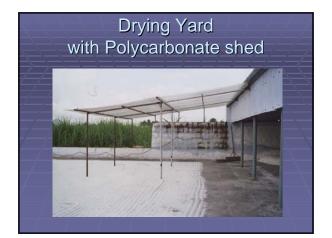
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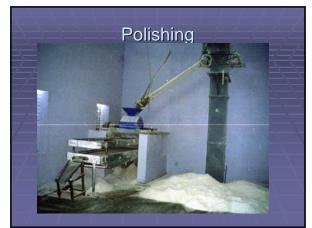


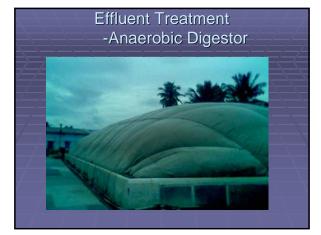
















### Marketing - Sago Serve

- Facilitator for producers & Traders
  Godown facility – 2 lakhs bags capacity
  Administered by Mr.D.Rajendran I.A.S., - M.D.
  - Quality control
  - Concessional Tax and other benefits

### Present status

- No. of industries : 400
- Capacity : 3 lakh tons
- Global competition: protected by safe guard duty for next 2 years
- Modernization has started
- Consumption of Sago mostly in N.India
- Marketed in 90&50 kgs packs
- Raw material: Shortage and highly infected by CMVD.Efforts to supply disease free planting material by tissue culture

#### Future Prospects

- No. of industries : will decrease
- Capacity : will increase
- Global competition : will exist
- Modernization : to international standards
- Raw material : possibility of introducing new varieties resistant to CMVD and high yielding
- Consumption of Sago : to be promoted in S.India
- Marketing : 1kgs,500 gms,200 gms packs with brands

