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Grain Processing with Special Reference to Rice

World produces around 2600 Million tons of Cereals and India produces around 270 Million tons. World produces around 700 MT of wheat and India produces around 100 MT. Paddy production in the World is around 750 MT and our country produces around 150 MT. Similarly, data is available for Coarse grains consisting of Millets, Legumes consisting of pulses.

Generally, paddy is processed to raw as well as parboiled rice. While processing paddy to raw rice precautions to be taken will be touched upon. Methods of parboiling of paddy, where open atmosphere, pressure parboiling will be touched upon.

Paddy is processed to steamed rice; in which way it is different from parboiled rice will be discussed. Preparation of Expanded rice, popped rice and Flaked rice will also be discussed. Similar attempts will be made to explain how other grains could be processed like rice will be touched upon. Weaning foods preparation and process conditions followed will be discussed while presenting. Attempts will be made to explain the steps, what is happening will also be touched upon.

Pregelatinization of cereals or any other grain will also be spoken. With pilot plant demonstrations, this phenomenon will be discussed upon.

Attempts will also be made to explain the phenomena of making dhals from the pulses. Attempts will also be made to explain the preparation of Sago from tapioca roots.

Biography:

After retiring from CSIR-CFTRI as a Chief Scientist during 2013, worked as an Emeritus Medical Scientist (ICMR) at University of Mysore and at present working as a Professor, under DBT sponsored Food Science Project, Gauhati University. Published 77 research papers, inventor of several processes, one Patent was commercialized to 30 industries. Handled several National & International projects. Guided 70-80 M.Sc students for their Dissertation and Investigation problems and produced 6 Ph.D candidates. Guided 4 candidates from Korea, Sudan, Nigeria and Ethiopia for their Post Doctoral Research at CSIR-CFTRI, Mysore. Faculty member and Course Co-ordinator of M.Sc Food Technology, HRD courses of CFTRI. Recipient of several awards, delivered 60-70 invited lectures, innumerable oral lectures, and presented 60-70 posters at National & International Conferences. Serving FSSAI, New Delhi in several capacities. Also, as a member of Research Advisory Committee, ICAR-Central Institute of Post Harvest Engg and Technology, Ludhiana, Punjab.