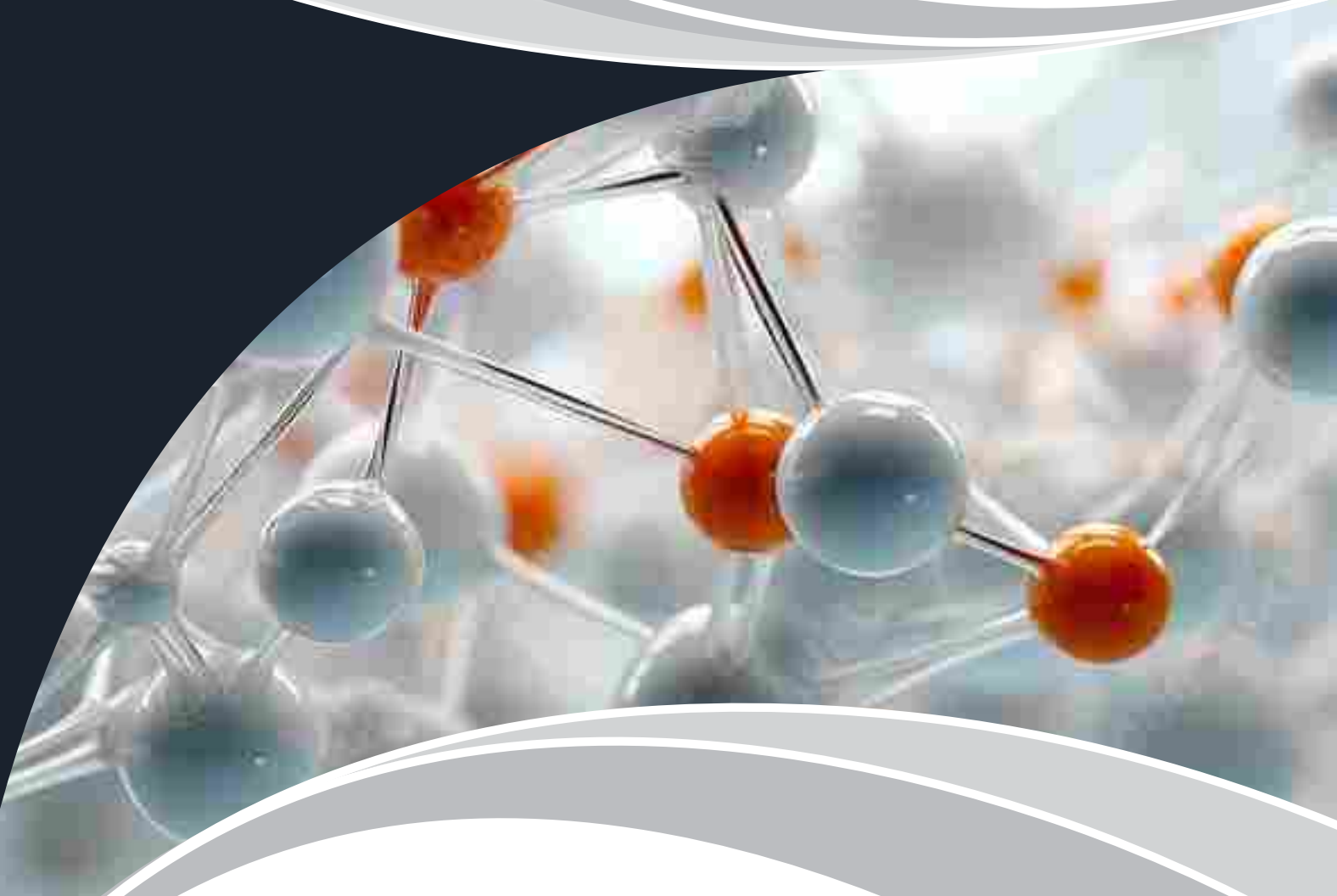




R-TECH SYSTEMS

ISO 9001 : 2015 Certified Company

A system of Fermentation technology

✉ rtechsystems@yahoo.in 🌐 www.rtechsystems.in

Managing Director

Message



R-TECH SYSTEMS founded in the year 1992 has flourished in harmony with nature biotechnology is one example of the brilliant human intelligence acquired from the harmonized living with nature. Historically, a center core of biotechnology is enzymology.

R-TECH SYSTEMS is pushing the boundaries of Industrial Enzyme & Biocide formulations by creating superior and innovative products. Our expertise spans the domains of Biochemistry, Microbiology, Molecular Biology, Biotechnology, Bioinformatics, Fermentation Technology, Environmental Chemistry and Wastewater Management.

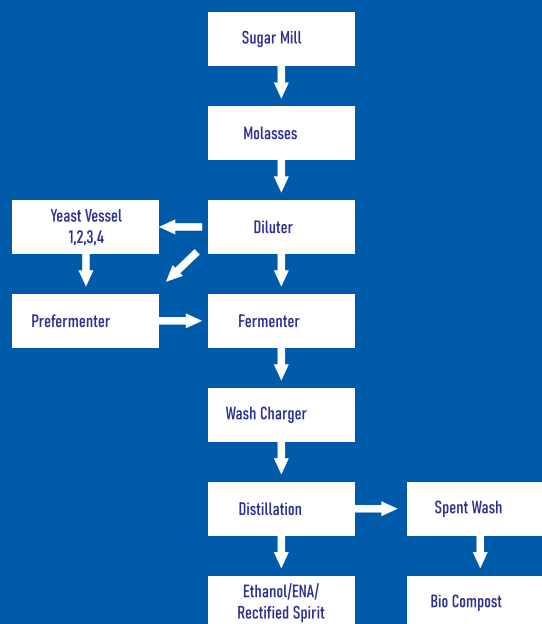
R-TECH SYSTEMS aims to clearly position its business against their relevant competitors and establish a high-performance organization to enable R-TECH SYSTEMS to be successful in an increasingly competitive market environment.

We are constantly attentive to the needs of the society, and we are tireless in our efforts to create new values through our engagement and commitment to enzymes we want to contribute to a world that provides a viable future with enhanced quality of life for everyone. For us this is what successful business is all about.

We hope for your continued generous support and encouragement in the days to come.

Managing Director
Rajesh Mohan

Distillery Process Flow Chart



MOLASSES

Molasses is being the most important and valuable by-product of the sugar making process holds a key place in the energy security needs of the country. India is an agri economy and even though production of ethanol from grains is picking up, food security needs puts the onus of fuel ethanol production squarely on the back of molasses processing.

India is the fourth largest producer of ethanol in the world and the second largest producer in Asia after China. The country produces around 460 million gallons of ethanol annually contributing approximately 4% to the world total production. Though India produces such large quantities of ethanol, still it has the capacity to produce even larger quantities of around 713 million gallons per year. That is why it can be said that the utilization rate in the country is usually low.

There are only 10 ethanol plants that exist in India and 20 more ethanol plants are proposed to be constructed in the near future to cope up with the increasing demand. Most of the plants are located in the states of Uttar Pradesh, Maharashtra & Tamil Nadu.

In the last sugar year / season, with the production of sugar crossing 27 million tons, molasses production has crossed 12 million tons, enough to process and produce almost 2.75 billion liters of ethanol. Molasses to ethanol is fermentation based typical process which has a great potential for the intervention of biotechnology for improvement in process efficiencies.



OUR PRODUCTS

The key raw material for IMFL players is molasses, which is a by product of sugar, Indian liquors are predominantly molasses based only. Our product enhances the quality & quantity of alcohol by hydrolysing Unfermentable sugars & converts the same o reducing sugars. It improves alcohol yield & fermentation cycle & efficiency.

- **R-ZYME S917 (Enzymatic Additives)**
- **R-CIDE S912 (Biocide)**
- **R-ZYME NS15 (Yeast Nutrients)**
- **R-CIDE NS 24 PLUS (Deduction of Urea & DAP Blend of Bio-Nutrients)**
- **DOVOY ACTIVE DRY YEAST (Dry Yeast)**
- **R-ZYME 17 TREAT PLUS (enzyme blend composition)**
- **R-CIDE DS 05 PLUS Descalant (MEE)**
- **R-ZYME BH 17 PLUS (Molasses Preservative)**
- **R-CIDE BC 50 MCC (Coal additives)**
- **R-ZYME LIGHT PRO (DDGS COLOUR IMPROVER)**



DOVOY

Channel Partner (INDIA)
Dovoy Chemicals



SM BIOTECH SYSTEMS

A system of Fermentation technology

✉ smbiotechsystems@yahoo.com

SINGAPORE | BANGLADESH | CHINA

Breweries & Grain Processing Distillery Enzymes



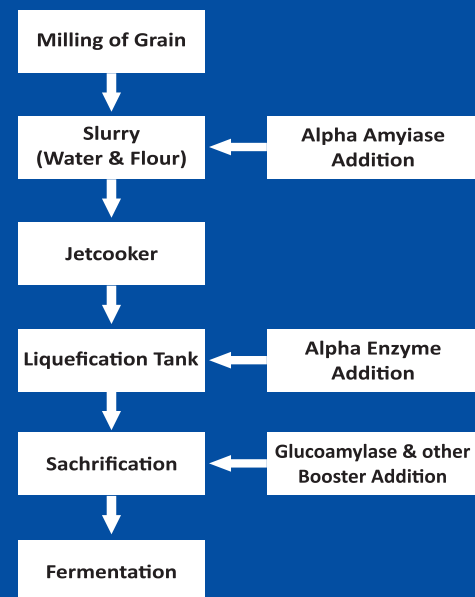


Our Sister concern SM BIOTECH is exclusive channel partner in India of Dovoy Chemicals.. Grain processing Enzymes..dry yeast and many more quality products..

OUR PRODUCTS

- 1. DOVOY - ZYME HTN ULTRA PLUS
(Liquefaction Alpha Amylase Enzyme)**
- 2. DOVOY - ZYME GAN ULTRA
(Saccharification Gluco Amylase Enzyme)**
- 3. DOVOY - ACTIVE DRY YEAST
(Thermostable Dry Yeast)**
- 4. R-ZYME FERM SAFE**
- 5. R-ZYME G PRO**
- 6. R-ZYME LIGHT PRO (DDGS COLOUR IMPROVER)**

Grain Process Flow Chart

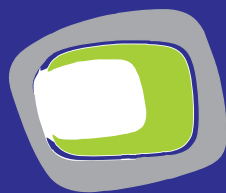


Grain processing in India for the production of ethanol is fast growing. the growth can be judged from the fact that the production has increased more than 300% in the last half a decade or so. The primary driver for this is the introduction of premium brands (mostly international) to the Indian consumer as well as a blanket ban on production of ethanol from molasses by some states like Rajasthan and partial bans by Haryana and Madhya pradesh.

Grain ethanol in India, As different from other parts of The World is used only for potable purposes and from the looks of it would continue to do so. though it is unlikely that grain alcohol in India would anytime be used for fuel ethanol purposes, the potable consumption is also rising at a steady clip of more than 15 percent year upon year.

Enzymes form the backbone of the grain processing business and the potential is vast and fast growing. Our products grain alcohol is produced by fermenting and distilling grain. It is also known as ethyl alcohol or ethanol. There are a number of industrial uses for grain alcohol: Antiseptic, Fuel, Solvent, etc.

Our products are unique researched enzyme based innovation which overall improves the sugar profile that in turn bring better alcohol yield. It improves conversion of starch to Dextrin, consequently Dextrins to glucose.



DOVOY

Channel Partner (INDIA)
Dovoy Chemicals

Making Things happen...

ISO 9001 : 2015 Certified | FSSAI Certified Company



fssai

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