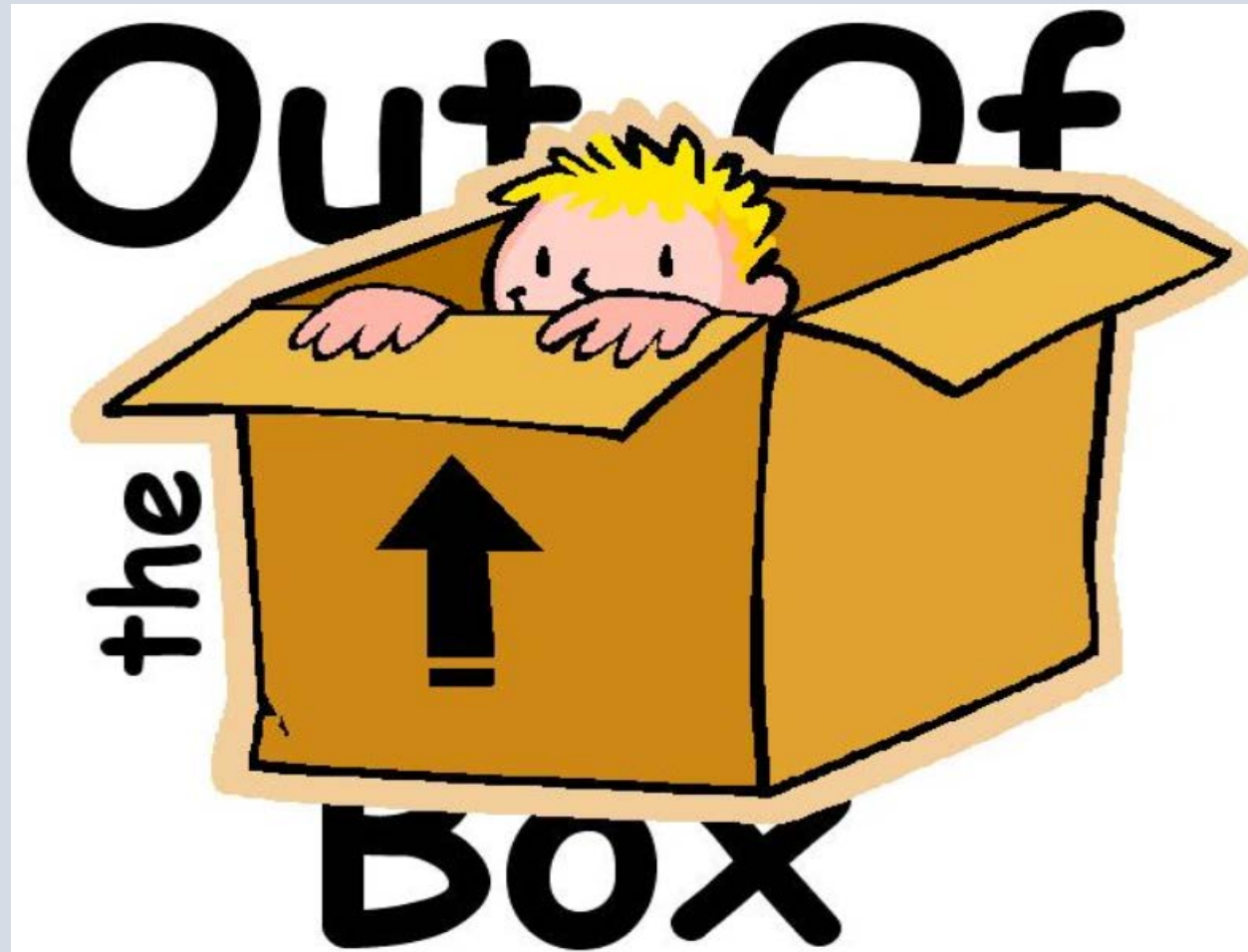




SHRI MANGAL SINGH JI

SUNIL SINGHAL : OUT OF THE BOX



“ When the going gets tough.....

..... the tough get going “

WHY HAVE A
BOILER ?

OR
A TURBINE ?

POWER

Available from the Grid, no shortage.

Sugar season is during winters which is a low demand period, so low rates can be negotiated .

Back-up for critical functions can be kept.

Monthly Price Trend (Avg. MCP) (Rs./kwh)



* Data till delivery date 15th August 2018
 *MCP (Market Clearing Price)

STEAM

- Boilers installed : 63 – 125 bar
- Process Requirement : 1.25 bar

Will require minimal quantity of Bagasse

PLANT COST REDUCED BY > **Rs. 100 crores**

Savings on :

- Interest & Depreciation
- Manpower
- Pollution, Ash Deposit
- Maintenance, etc.

WHAT TO DO WITH
ALL THE
BAGASSE ??



SunLight
Fuels

1000 tons Bagasse/ day
= 200,000 litres/day of
Petrol
&
Diesel

VALUE ADDITION

1 ton Bagasse = Rs. 2,400

200 litres Biofuels =

@ Rs. 60/litre = Rs. 12,000

PETROL	Rs. 77.28/ litre
DIESEL	Rs. 68.86/ litre

PETROL & DIESEL

- Unlimited Demand
- Energy security for the country
- Reduce Crude Import
- Reduce GHG Emission
- Make in India

SUNIL SINGHAL : OUT OF THE BOX

INDIA

Petrol consumption = 40 million kl/ annum

Diesel consumption = 110 million kl/ annum

150 million kl/ annum

BAGASSE PRODUCTION, 150 days = 130 million tons/season

EQUIVALENT PETROL & DIESEL = 26 million kl/ annum

USING OTHER BIOMASS 200 days = 36 million kl/ annum

62 million kl/ annum

SO
SUGAR INDUSTRY
CAN MEET

> 40 % OF
INDIA'S

PETROL & DIESEL
REQUIREMENTS

SUGAR REFINERY

will have

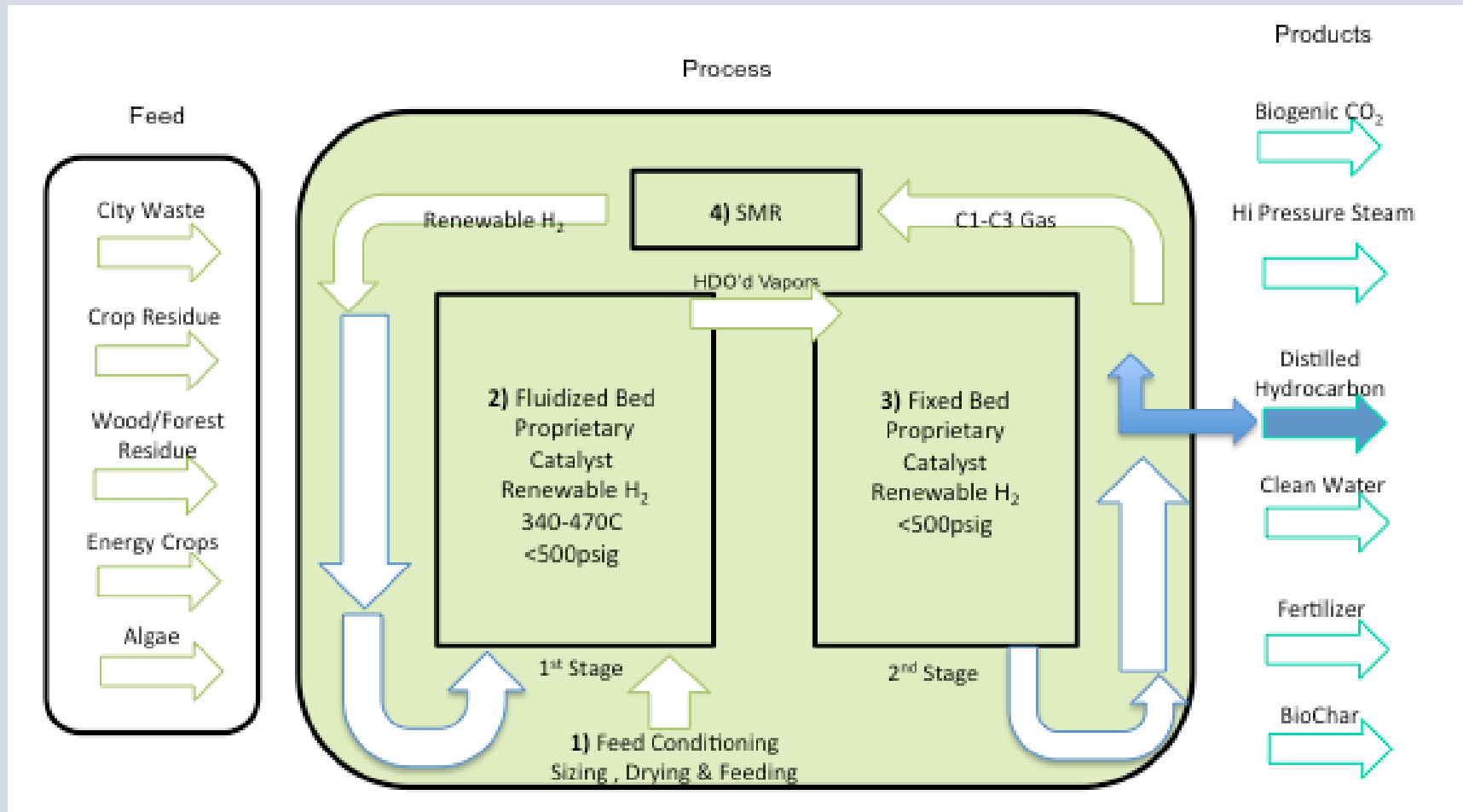
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Different Meaning

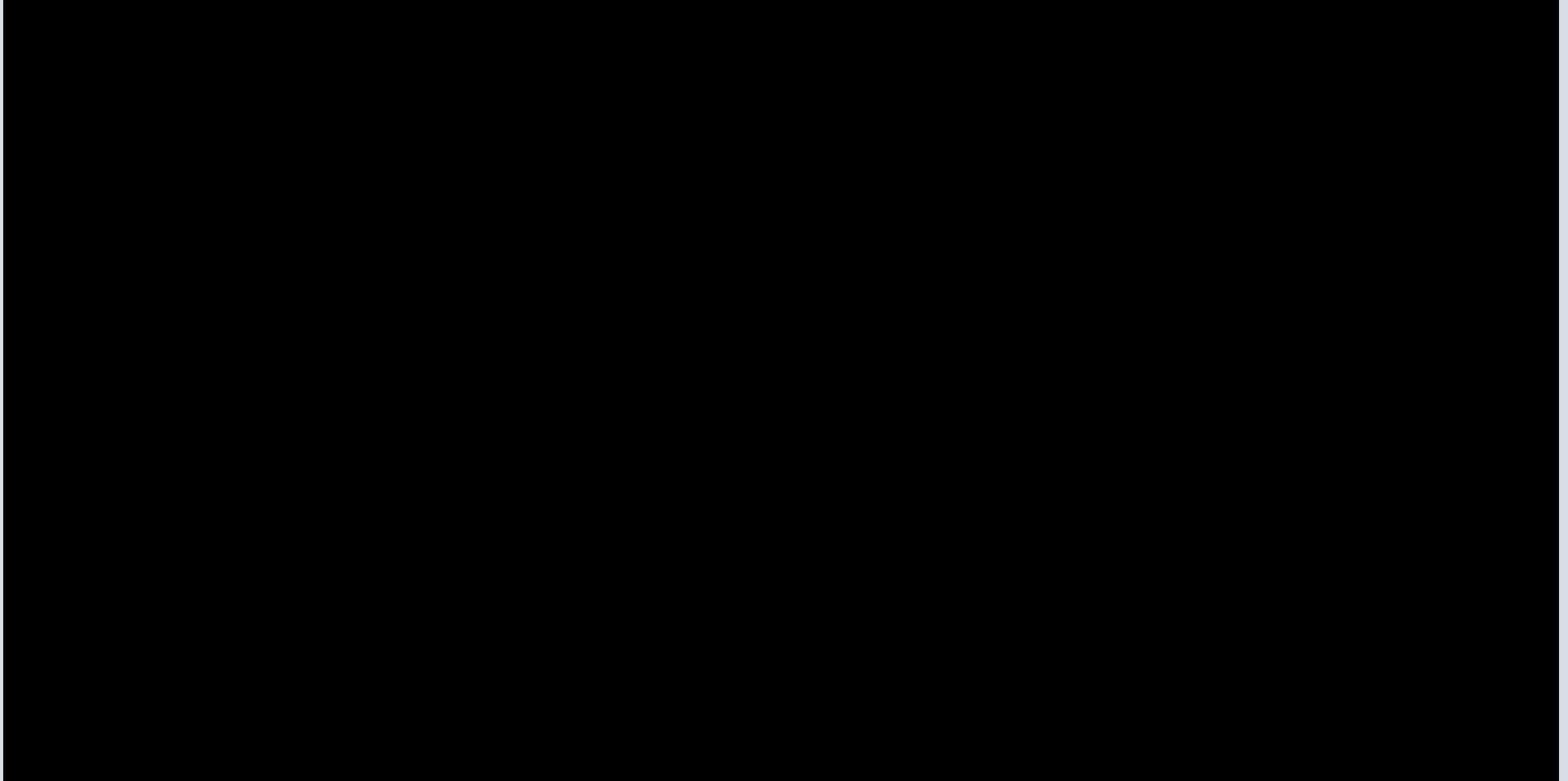
It will become

SUGAR + PETROLEUM REFINERY

IH² PROCESS TECHNOLOGY



Sugar Foam



PU- POLYURETHANE FOAM

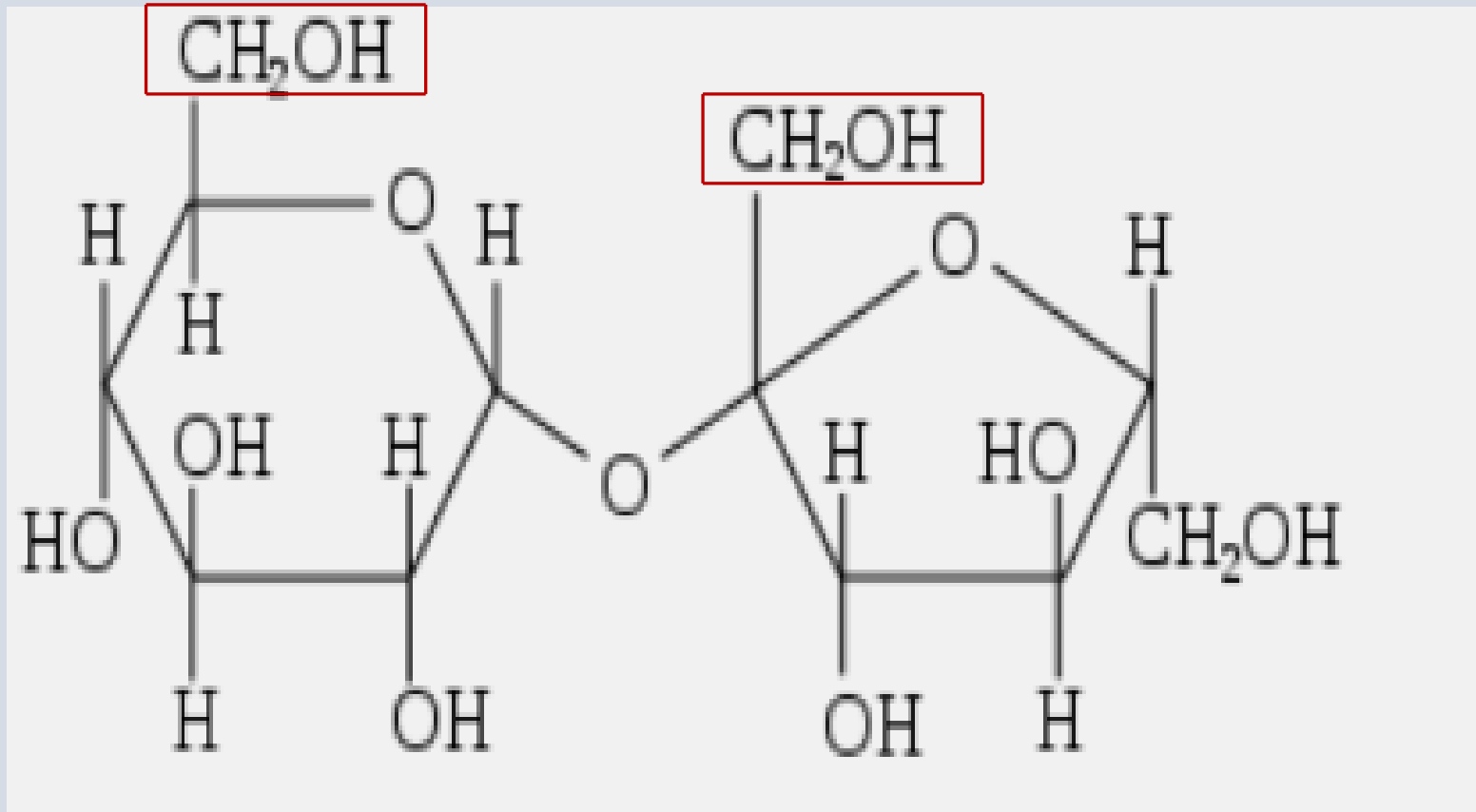
Density : 8 kg /m³



SUNIL SINGHAL : OUT OF THE BOX



SUGAR SYRUP
+
MDI (Isocyanate)
+
WATER
+
FOAMING AGENT



SUCROSE

1 kg of sugar = 3.3 kg of PU Foam
= 100 pairs of Chappals
@ Rs. 50 / chappal

Rs. 30 /kg = Rs. 5,000/kg

VALUE MULTIPLICATION = 170 TIMES !!





SUNIL SINGHAL : OUT OF THE BOX



We all know

Sugarcane is 70 % water

WATER RECOVERED 50 % CANE

BASIS : 10,000 TCD
SEASON : 160 days
WATER PRICE : Rs. 1/ litre
10,000 X 50 % X 160 X 1 = Rs. 80 crores/ season

@ 11 % Recovery = Rs. 450/bag

FEW OTHER THOUGHTS

- Advocate differential Rs. 60/kg sugar price for Industrial user
- Use Sorghum for 3-4 months after season
- Promote Sugar Consumption
- Counter negative propaganda on sugar
- Export Refined sugar instead of raw sugar will give additional income of Rs. 350/bag

THANK YOU !

SUNIL SINGHAL

PRESIDENT

CHEMICAL SYSTEMS TECHNOLOGIES

WWW.SUGARCHEM.COM