



# INDIAN RICE BRAN OIL

*A GROWTH STORY.....*

Presented by

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At

ORGANISED BY



International Association of  
Rice Bran Oil (IARBO)

International Conference on  
Rice Bran Oil-2023

21<sup>st</sup>-23<sup>rd</sup> April, 2023 | Hyderabad-India

HOSTED BY



The Solvent Extractors'  
Association of India (SEA)

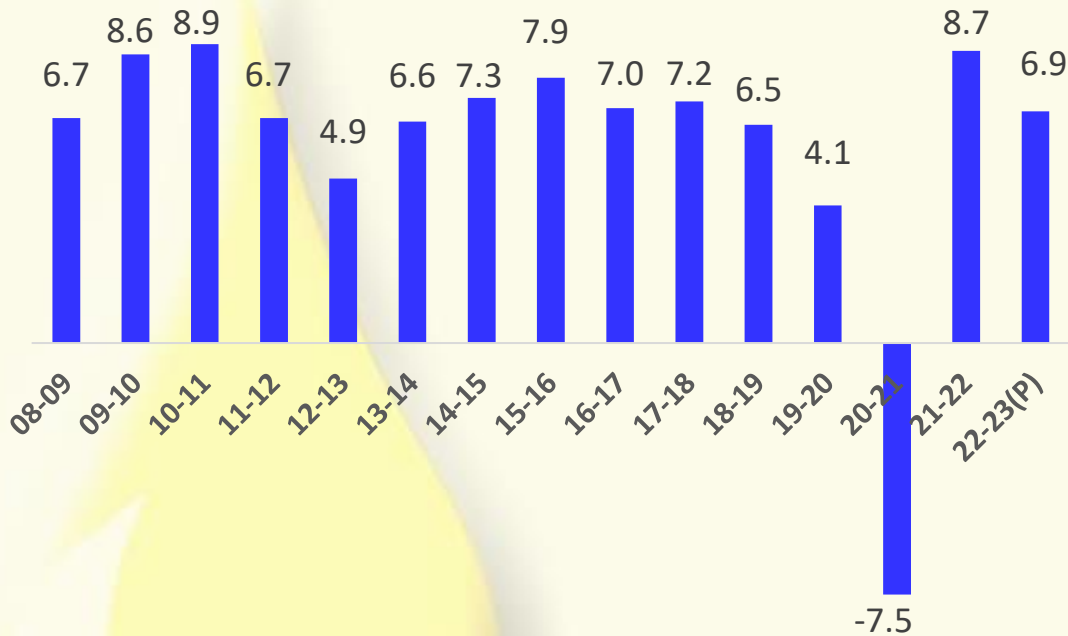


# SEA Profile

- Formed in **1963** to foster the development & growth of the Solvent Extraction & Vegetable Oil Industry in India
- Largest and Premier Association in the Vegetable Oil Sector in India – over **700 members** across the country
- First Association in Vegetable Oil & Oilseed sector to receive ISO 9001 Certification in India (2004), now upgrade to **ISO 9001 : 2015**
- Recognised as **NGO** by Ministry of Agriculture and **TPO** by Ministry of Commerce, Government of India
- ITC, Geneva (United Nation) has recognised SEA as the **Best & Successful Model Association**
- SEA is the **founder member of IARBO**



# India Economy Overview



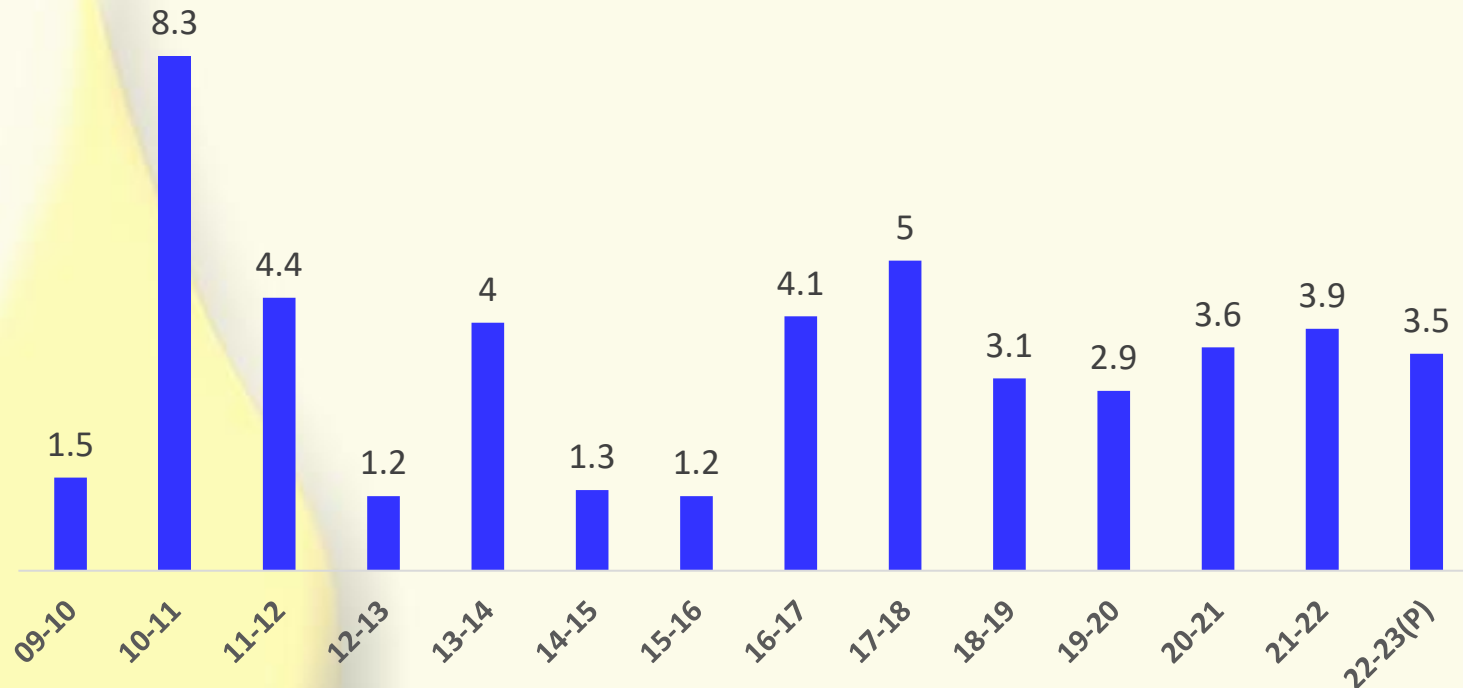
- Average GDP growth in last Six years is registered at 6.8% (except 2020-21)
- For FY 22-23, GDP growth is forecasted at 6.9%





# India Agriculture Overview

## Agriculture Sector GDP Growth (%)



- **Agriculture Sector Growth depends heavily on monsoon performance**
- **For FY 20-21, Agri growth was at 3.6%. For FY 21-22, it increased to 3.9% due to good monsoon and for FY 22-23 is about 3.5%**



# INDIAN RICE BRAN OIL

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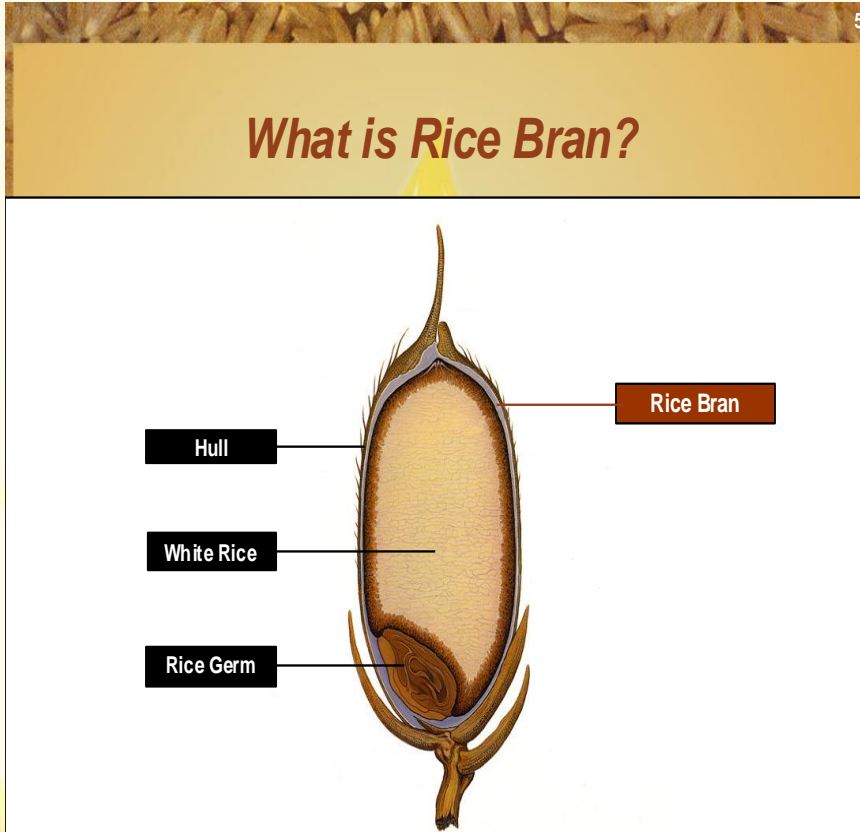


# What Is Rice Bran Oil?

**..a unique cooking oil  
produced  
From Rice Bran**



# What Is Rice Bran ?



**Rice Bran is an oily layer in between the paddy husk and the white rice.**



# Rice Bran Oil - Indian Scenario

- **Until recent past (1995), RBO produced in India was mainly used in soap manufacturing and product mix of vanaspati manufacturing.**
- **Since 1998 SEA, jointly with TMOP & CSIR launched campaign to encourage production and use of RBO as a Healthy Cooking Medium.**
- **SEA in its crusade to encourage the production and use of Rice Bran Oil as 'Health Oil', has organised 13 National Seminars and a number of regional workshops in last twenty years.**
- **It also took a six-member delegation to Japan to study the latest technology in RBO processing (2001).**





# Rice Bran Oil - Indian Scenario (Contd..)

- **2000 onwards it started to be used in Edible purpose in Vanaspati & Blended Oil**
- **2005 onwards with the awareness campaign it was accepted as a very good healthy cooking oil**
- **By 2010 – Many RBO & Blended RBO Brands entered into the market**
- **These efforts have gone a long way in encouraging the production of good quality refined Rice Bran Oil & progressively increasing its consumption as a 'cooking oil for the Health of Entire Family'.**
- **India produces the best quality of Rice Bran Oil and has emerged as the largest producer of this oil in the world.**
- **In India more than 150 S.E. units producing over 10.0 lakh tons of rice bran oil per annum.**



# India – Rice Bran Oil Potential & Production

- **India – Second Largest Producer of Paddy in the World after China.**
- **Emerged as the World's Largest Producer of Edible Grade Rice Bran Oil.**
- **Present Production of Rice Bran Oil – 10.5 Lakh Tonnes.**
- **Untapped Potential 8-10 Lakh Tonnes.**



# Reasons for under exploitation

## 1. Technical Reasons:-

- Perishable nature of Rice Bran.
- Rice Bran contains a lipid degradation enzyme namely lipase
- Time gap between production and extraction of rice bran increases free fatty acid content in the oil making it unsuitable for exploitation as an edible oil.
- Higher cost of production as compared to conventional edible oils.
- Lack of exploitation of value added products from by-products.

## 2. Commercial Reason:-

- Anomaly in present GST structure.
- Rice Bran – 5% GST
- RBO - 5% GST
- DORB - Nil GST



# Top Ten Rice Producing States in India

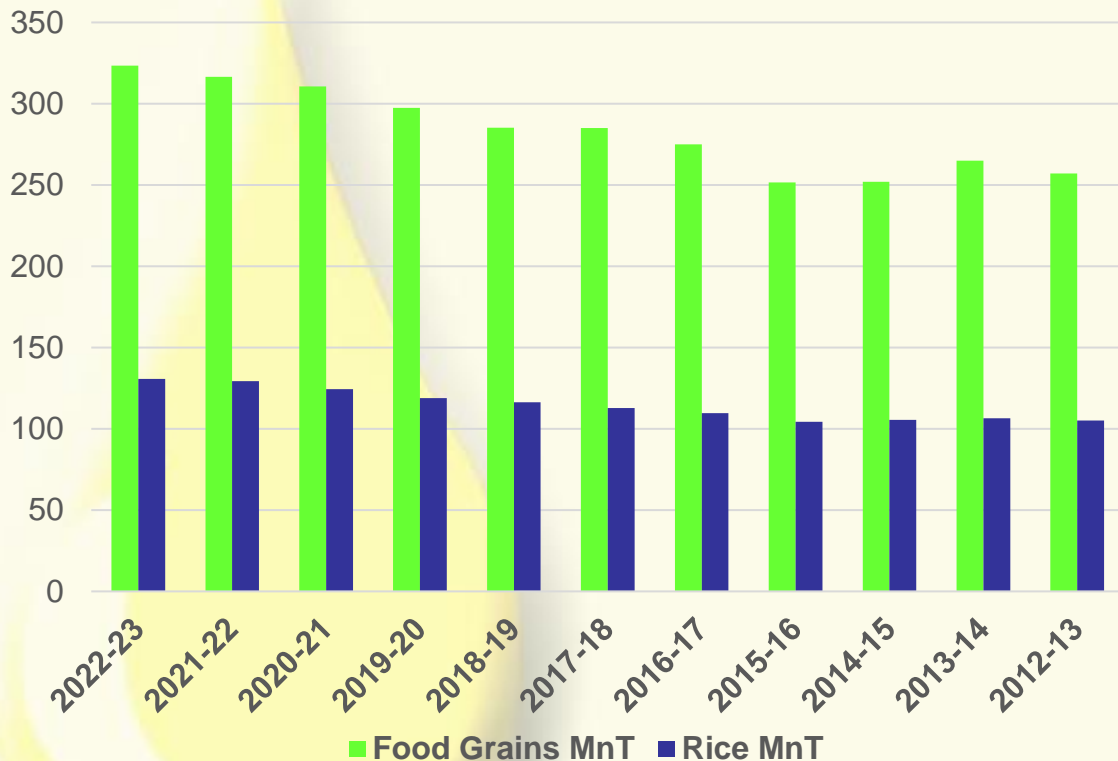


1. West Bengal
2. Uttar Pradesh
3. Andhra Pradesh & Telangana
4. Punjab
5. Bihar
6. Orissa
7. Chhattisgarh
8. Assam
9. Tamil Nadu
10. Haryana



# Production of Food Grains & Rice in India

Qty MnT



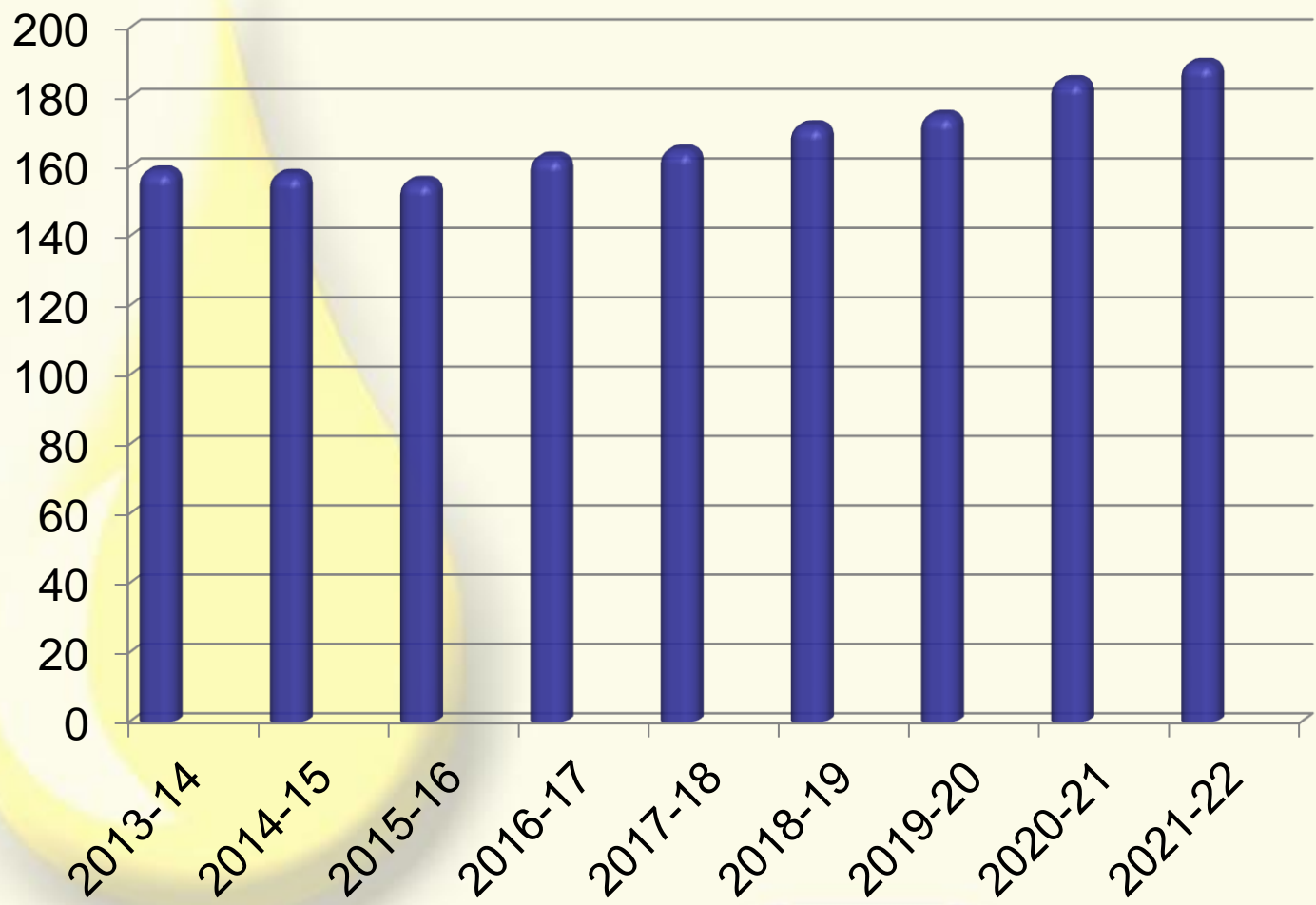
Year	Food Grains MnT	Rice Mn	Percentage %
2022-23(E)	323.55	130.84	40.44
2021-22	315.62	129.47	41.02
2020-21	310.74	124.37	40.02
2019-20	297.50	118.87	39.96
2018-19	285.22	116.48	40.84
2017-18	285.01	112.76	39.56
2016-17	275.11	109.70	39.87
2015-16	251.54	104.41	41.50
2014-15	252.0	105.5	41.9
2013-14	265.0	106.6	40.2
2012-13	257.1	105.2	40.9

India Produce nearly 40% of total grain production



# India's Paddy Production (Million Tons)

Qty in MnT



Year	Qty in MnT
2013-14	159
2014-15	158
2015-16	156
2016-17	163
2017-18	165
2018-19	172
2019-20	175
2020-21	185
2021-22	190

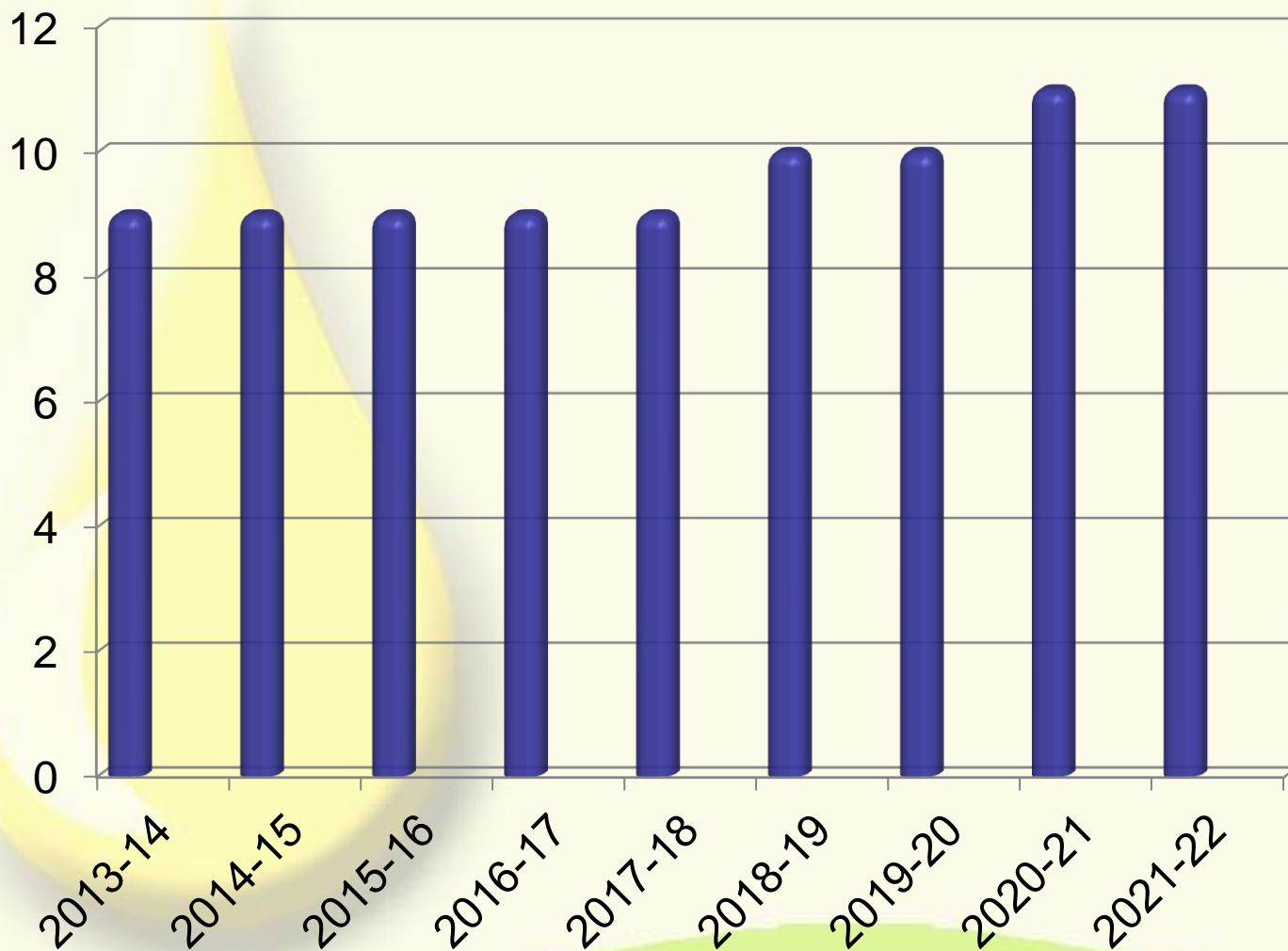


**Paddy Production increased by 159 MnT to 190 MnT in 10 years**



# Rice Bran Potential based on Paddy Production (Million Tons)

Qty in MnT



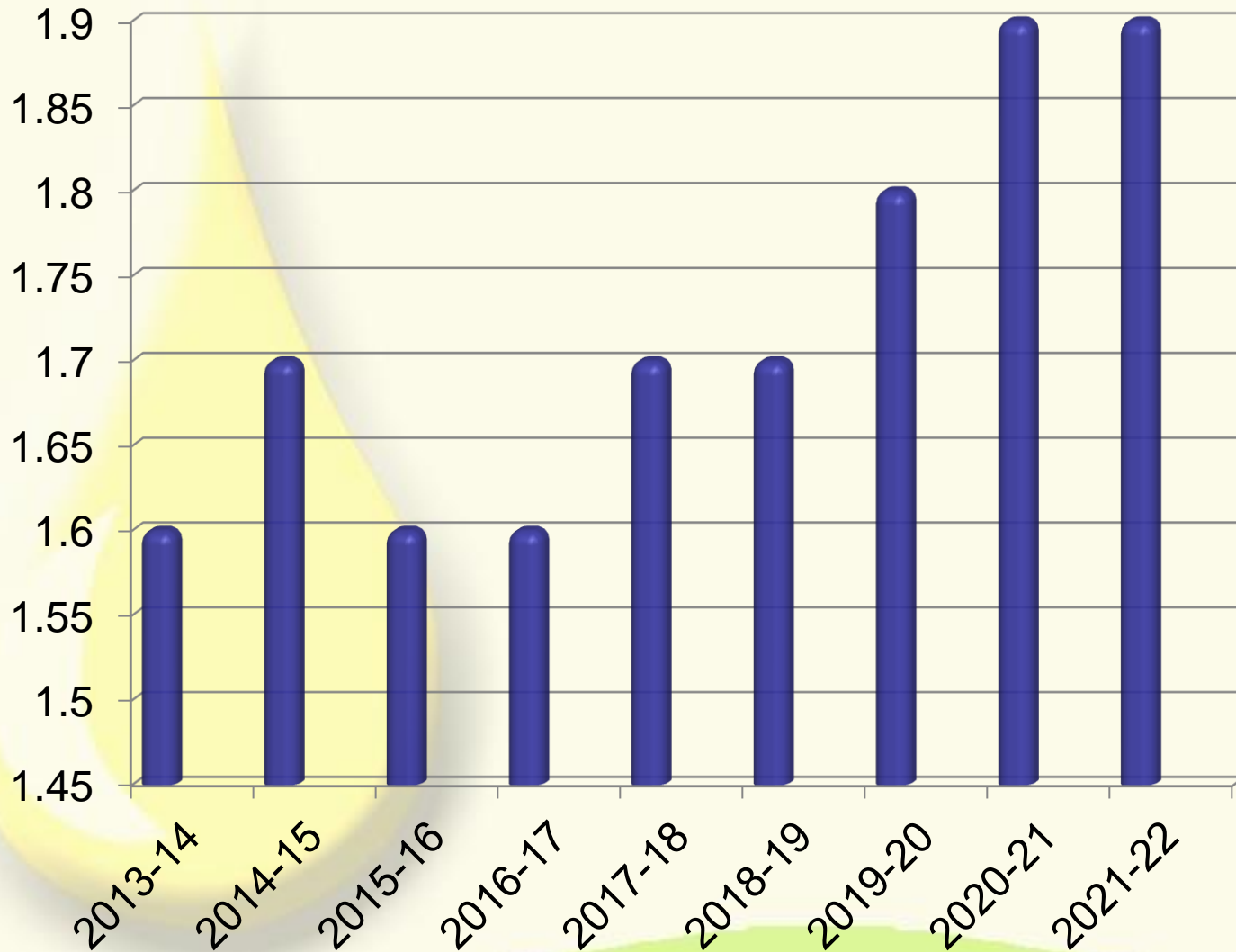
Year	Qty in MnT
2013-14	9.0
2014-15	8.9
2015-16	8.9
2016-17	9.3
2017-18	9.4
2018-19	9.8
2019-20	10.1
2020-21	10.6
2021-22	10.9





# Rice Bran Oil Potential (Million Tons)

Qty in MnT



Year	Qty in Mn.T
2013-14	1.6
2014-15	1.6
2015-16	1.5
2016-17	1.6
2017-18	1.7
2018-19	1.7
2019-20	1.8
2020-21	1.9
2021-22	1.9



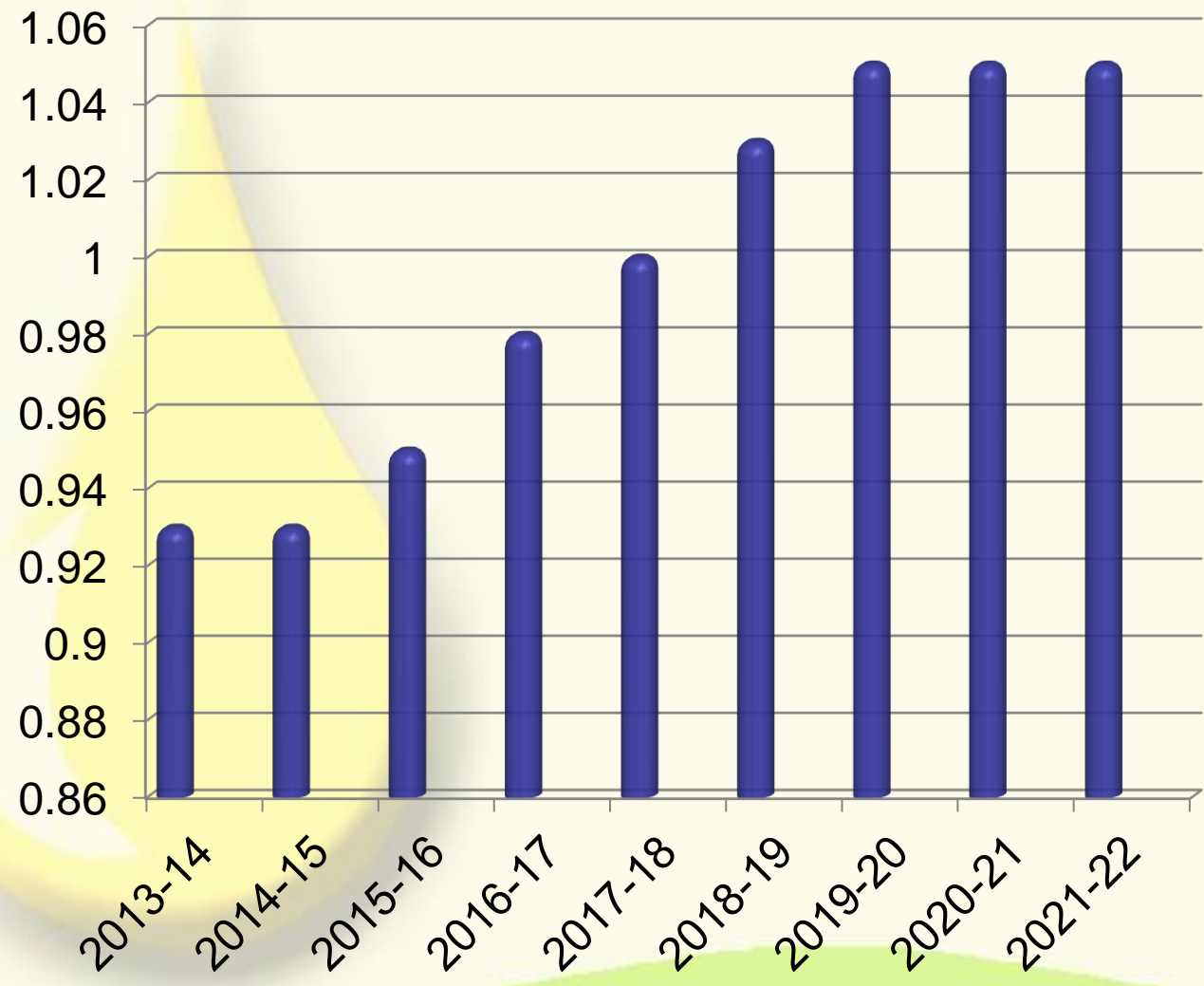
➤ **Average RBO Recovery 17% to 17.5% from Rice Bran**





# Rice Bran Oil Production (Million Tons)

Qty in MnT



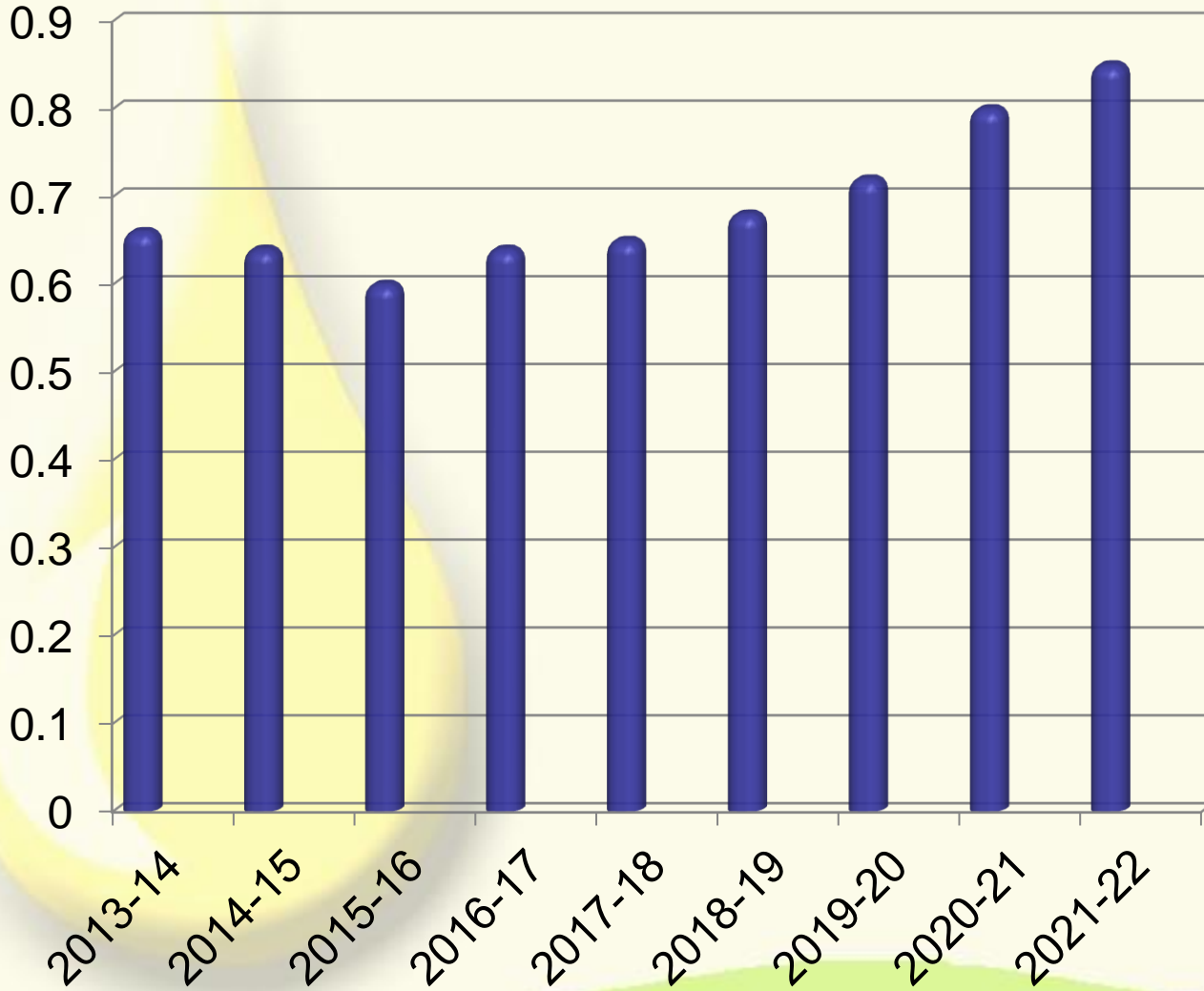
Year	Qty in MnT
2013-14	0.93
2014-15	0.93
2015-16	0.95
2016-17	0.98
2017-18	1.00
2018-19	1.03
2019-20	1.05
2020-21	1.05
2021-22	1.05





# Untapped Potential Rice Bran Oil (Million Tons)

Qty in MnT



Year	Qty in MnT
2013-14	0.66
2014-15	0.64
2015-16	0.60
2016-17	0.64
2017-18	0.65
2018-19	0.68
2019-20	0.72
2020-21	0.80
2021-22	0.85





# India – Rice Bran Oil Potential & Production

**2021-22**

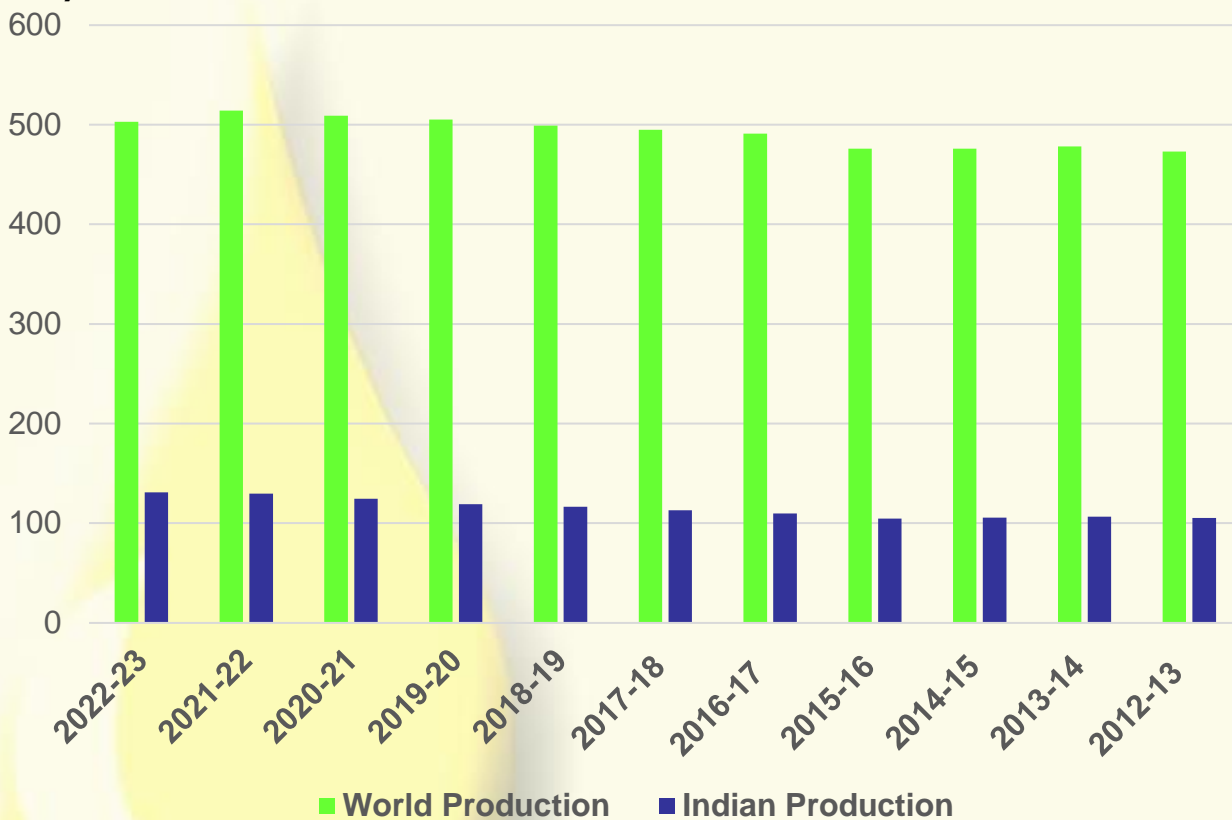
<b>Paddy Production</b>	<b>190 Mnt</b>
<b>Rice Production (67%)</b>	<b>128 Mnt</b>
<b>Rice Bran Potential (6%)</b>	<b>10.9 Mnt</b>
<b>Rice Bran Oil Potential (17%)</b>	<b>1.9 Mnt</b>
<b>Rice Bran Processing</b>	<b>7.0 Mnt</b>
<b>Rice Bran Oil Production</b>	<b>1.05 Mnt</b>
<b>Untapped Potential for RBO</b>	<b>0.85 Mnt</b>

**1 Mnt. = 10 Lakh**



# World & India's Rice Production

Qty MnT

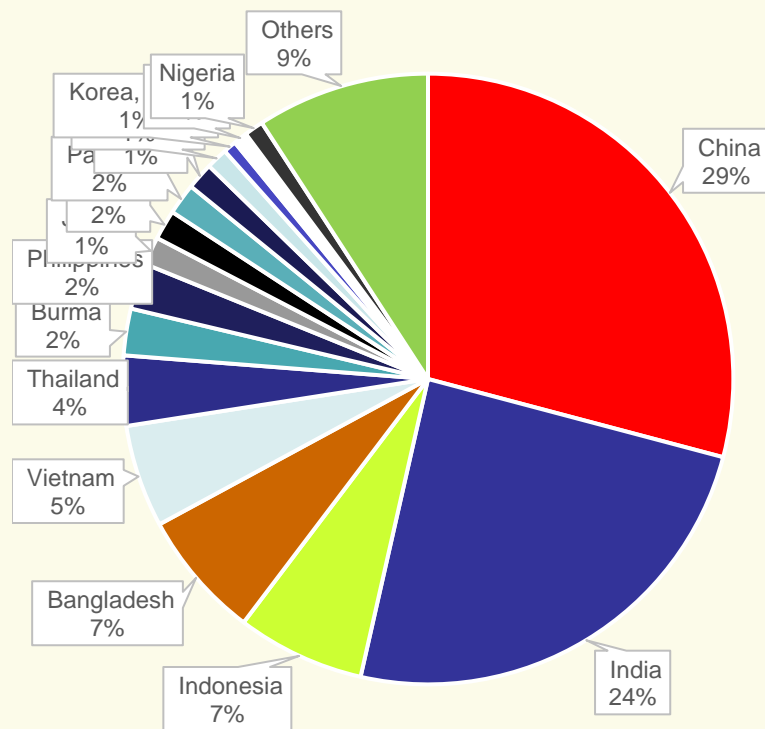


Year201	World Production in MnT	Indian Production in MnT	India's Share (In %)
<b>2022-23(E)</b>	<b>503</b>	<b>130.84</b>	<b>26.01</b>
2021-22	514	129.47	25.19
2020-21	509	124.37	24.43
2019-20	505	118.87	23.54
2018-19	499	116.48	23.34
2017-18	495	112.76	22.78
2016-17	491	109.70	22.34
2015-16	476	104.41	21.93
2014-15	478	105.50	22.07
2013-14	468	106.60	22.78
2012-13	473	105.20	22.24



# Global Rice Production and Country wise Share

Country	2020-21		2021-22	
	Qty '000 MnT	Percentage	Qty '000 MnT	Percentage
China	148.30	29.12	148.99	28.99
India	124.37	24.42	129.47	25.19
Indonesia	34.50	6.77	34.40	6.69
Bangladesh	34.60	6.79	35.85	6.98
Vietnam	27.68	5.43	26.77	5.21
Thailand	18.86	3.70	19.88	3.87
Burma	12.60	2.47	12.35	2.40
Philippines	12.42	2.44	12.54	2.44
Japan	7.57	1.49	7.67	1.49
Brazil	8.00	1.57	7.34	1.43
Pakistan	8.42	1.65	9.32	1.81
United States	7.22	1.42	6.08	1.18
Cambodia	5.74	1.13	5.77	1.12
Korea, South	3.51	0.69	3.88	0.75
Nepal	3.74	0.73	3.42	0.67
Nigeria	5.15	1.01	5.26	1.02
Others	46.64	9.16	44.98	8.75
<b>World Total</b>	<b>509.32</b>	<b>100.0</b>	<b>513.97</b>	<b>100.0</b>





# World – Rice Bran Oil Potential & Production

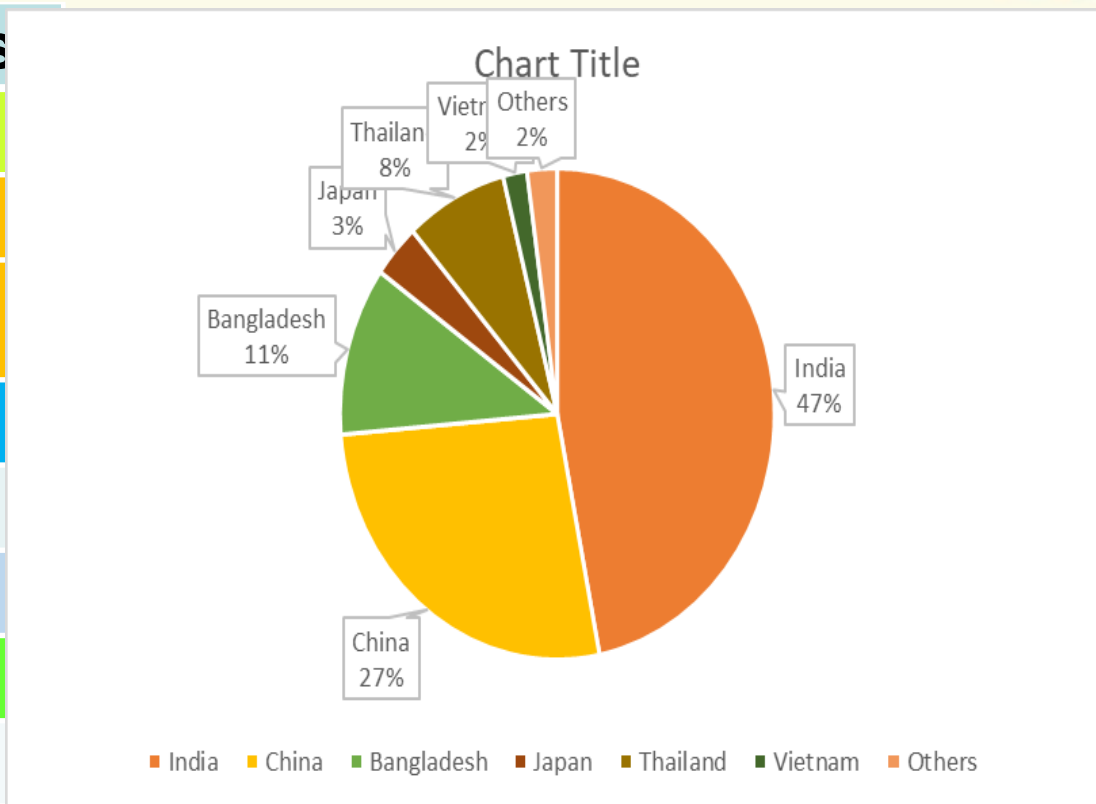
**2021-22**

<b>World Production of Rice</b>	<b>513.97 MnT</b>
<b>Rice Bran Potential (8.5% of Rice Production)</b>	<b>43.70 MnT</b>
<b>Rice Bran Oil Potential ( 17% Recovery )</b>	<b>7.43 MnT</b>
<b>Current Production of Rice Bran Oil</b>	<b>2.20 MnT</b>
<b>World Untapped Potential</b>	<b>5.23 MnT</b>
<b>Percentage of Untapped Potential</b>	<b>70%</b>



# Major Countries Producing Rice Bran Oil

Country	Production (Tons)
India	1,050,000
China	600,000
Bangladesh	250,000
Japan	80,000
Thailand	170,000
Vietnam	40,000
Others	50,000
<b>Total</b>	<b>2,240,000</b>









# Rice Bran Oil - Key Takeaways

- China and India contribute 55% of the world Rice production.
- Indonesia and Myanmar are also sizable producers of Rice. Rice Bran Oil potential not properly exploited by these countries.
- Against potential of 7.43 MnT, RBO production currently stands at 2.2 MnT, thereby untapped potential is 5.23 MnT.
- Chinese production is rising very fast. Current production estimate is 600,000 tons. Bangladesh production also sharply increased to over 250,000 tons
- Indian produces 10,50,000 Tons of RBO against potential of 19,00,000 Tons.
- Indian efforts are relatively better, but still lot needs to be done.
- Important that the world is made aware of the huge potential of untapped opportunity of 5.5 MnT of RBO, which needs to be fully explored.
- Value added products from Ricebran /RBO helps farmers to receive better price with out raising price of paddy.
- Increase production of ricebran oil will reduce India's dependence on import of edible oils.



***And so to conclude....***

**Nature's gift to mankind**

## **Rice Bran Oil**

**A nutritionally superior edible oil**

**Providing immense benefits for the heart and  
for general health**

**A healthier alternative to your existing cooking  
Medium for a "Healthy, Happy Family"!**



Thank  
You



**Dr. B. V. Mehta**  
**Executive Director**

## **The Solvent Extractors' Association of India**

**A Premier Association of Vegetable Oil Industry & Trade in India**

**ISO 9001:2008 Organisation**

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