



COUNTRY REPORT ON RBO

Current Status & Future Prospects



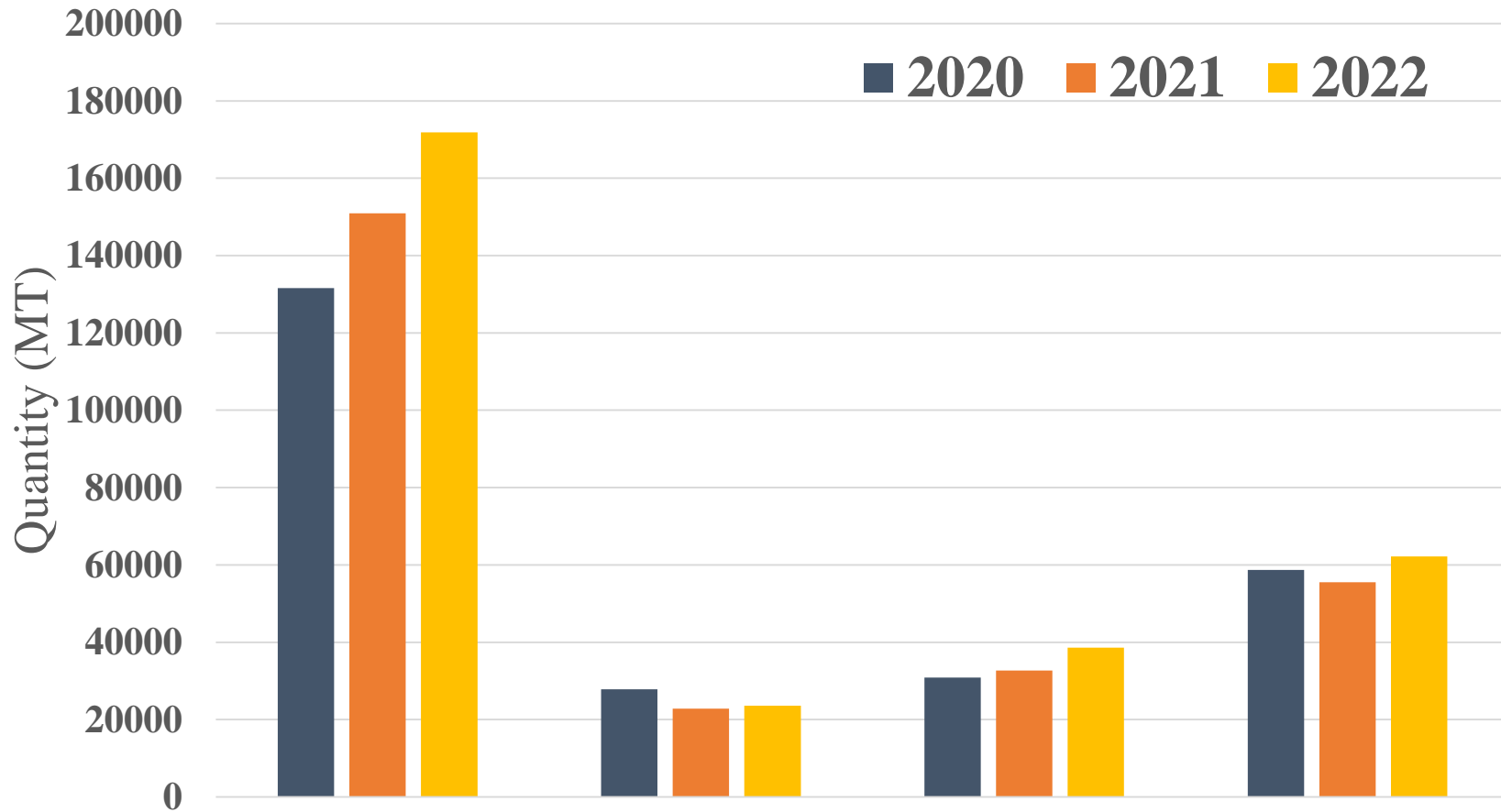
Presented by Assoc. Prof. Dr. Riantong Singanusong
Naresuan University, Phitsanulok, THAILAND



◆ RBO Producers in Thailand

No.	Company	Founded	No. of Factory	
			Crude	Refined
1	Thai Edible Oil Co., Ltd.	1977	2	2
2	Kasisuri Co., Ltd.	1977	4	1
3	Surin Bran Oil Co., Ltd.	1991	1	1
4	Kaona Pokphand Co., Ltd.	1994	1	-
5	CEO Agrifood Co., Ltd.	2006	1	1
6	Medifoods (Thailand) Co., Ltd.	2011	1	1
7	Siam Crystal Rice Co., Ltd.	2012	1	-
8	Siam Parboiled Rice Co., Ltd.	2016	1	-
9	Benergies Agritrade Co., Ltd.	2017	1	-
10	LPP Rice Bran Oil Co., Ltd.	2022	1	-
Total			14	6

◆ RBO Production in Thailand (2020-2022)

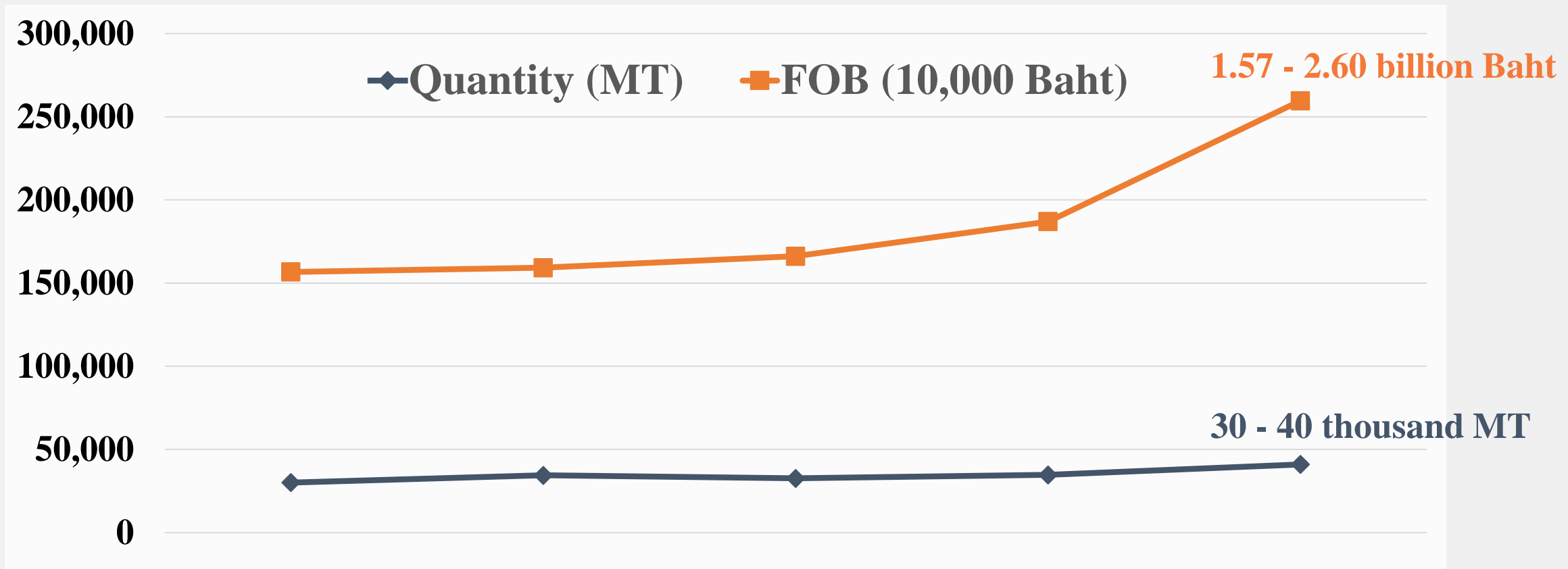


From 2020-2022:

- ◆ The crude production increased by 30.60%
- ◆ The domestic consumption decreased by 15.30%
- ◆ The exportation increased by 25.09%
- ◆ Total production increased by 5.95%

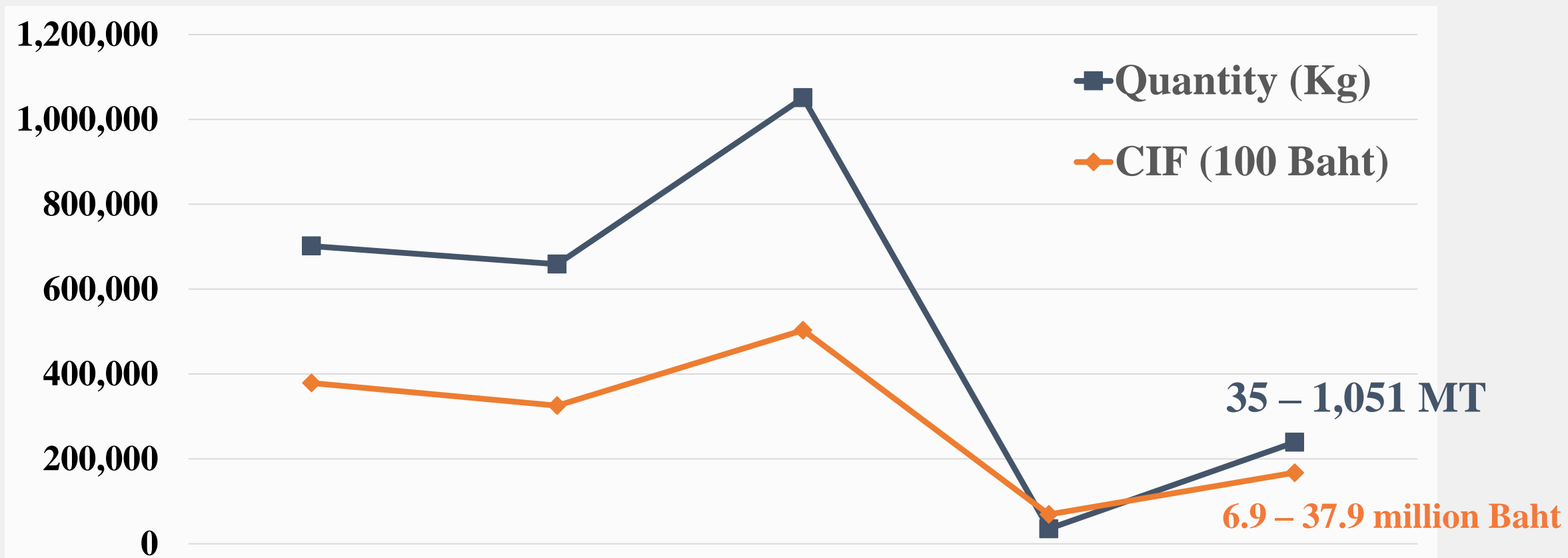
	Crude RBO	Domestic Refined RBO	Exported Refined RBO	Total Refined RBO
2020	131,570	27,812	30,872	58,684
2021	150,927	22,799	32,720	55,519
2022	171,827	23,558	38,619	62,177

Export of Thai Crude and Refined RBO from 2018 - 2022



	2018	2019	2020	2021	2022
Quantity (MT)	30,051	34,458	32,585	34,690	41,005
FOB (10,000 Baht)	156,713	159,230	166,130	187,036	259,667

◆ Import of Refined RBO to Thailand from 2018 - 2022



	2018	2019	2020	2021	2022
Quantity (Kg)	701,510	658,921	1,050,908	35,093	238,999
CIF (100 Baht)	378,763	325,423	503,292	68,933	167,294

◆ Top 10 Export Destinations of Thai Crude and Refined RBO in 2022

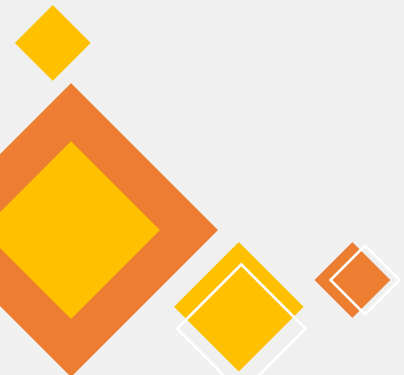
No.	Country	Quantity (kg)	FOB (Baht)
1	Korea	11,369,203 (27.7%)	672,532,275
2	Japan	9,993,121 (24.4%)	622,293,698
3	Australia	4,971,890 (12.1%)	294,996,354
4	Italy	2,353,093 (5.7%)	137,104,860
5	Hong Kong	1,917,694 (4.7%)	169,082,836
6	New Zealand	1,727,688 (4.2%)	108,973,754
7	United States	1,677,948 (4.1%)	102,632,795
8	Taiwan	1,377,530 (3.4%)	101,741,833
9	Singapore	1,118,436 (2.7%)	78,731,630
10	Vietnam	869,760 (2.1%)	45,759,543
	Others	3,628,508 (8.8%)	262,821,780
Total		41,004,871	2,596,671,358

Import of Refined RBO to Thailand in 2022

No.	Country	Quantity (kg)	CIF (Baht)
1	India	222,296 (93.01%)	12,585,267
2	Japan	16,625 (6.96%)	4,063,875
3	France	56	41,374
4	Belgium	18	28,015
5	Netherlands	2	2,007
6	China	2	8,820
Total		238,999	16,729,358



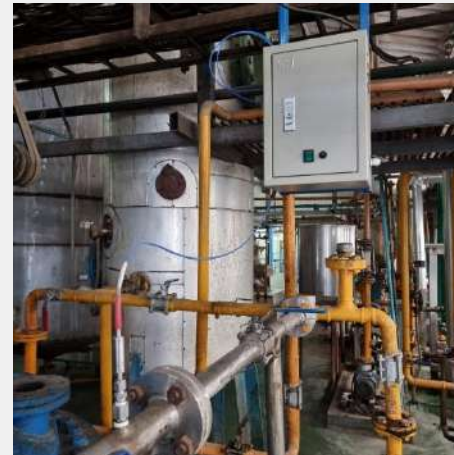
Innovative products of RBO and Current activities of RBO producers in Thailand



NIR for tracking oryzanol content during production process



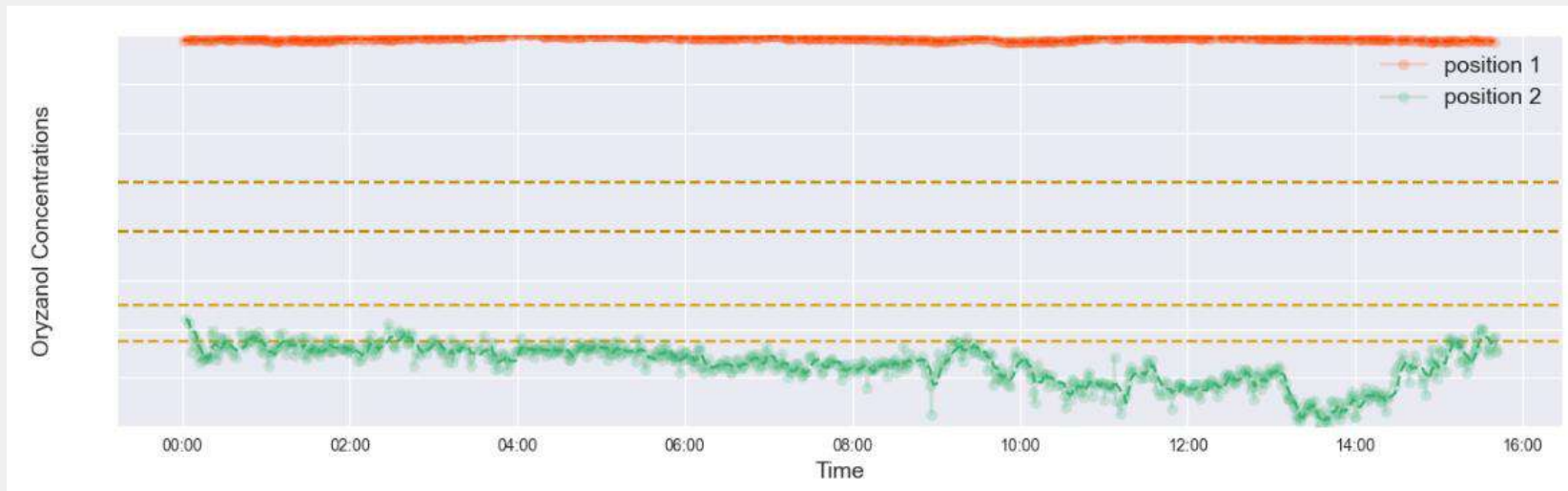
**Sensor at position 1
– crude oil**



**Sensor at position 2
– neutralized oil**

Installed locations

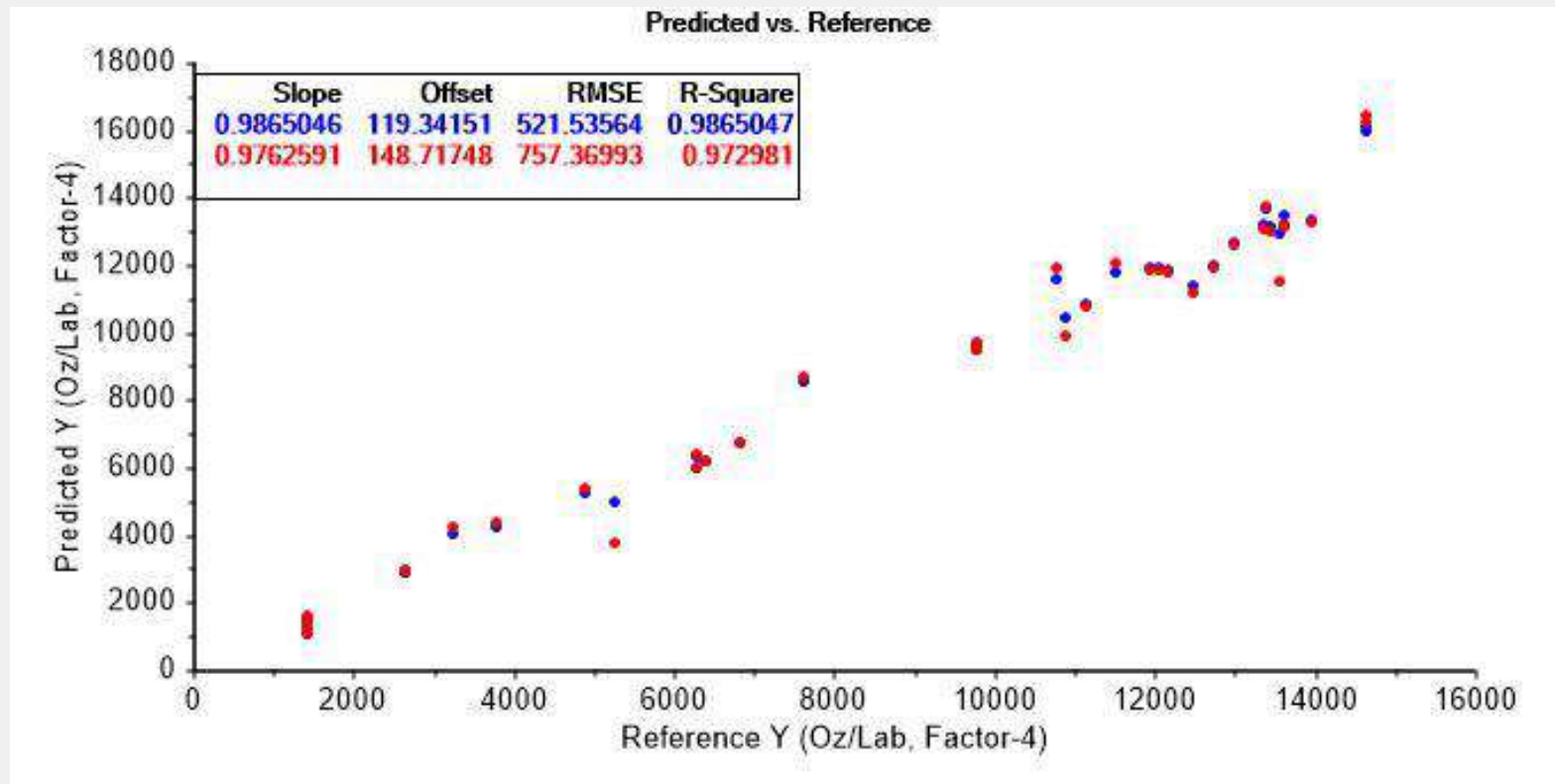
- Crude RBO input
- Neutralized oil
- Deodorized oil



In-line NIR can detect the fluctuation in oryzanol content in the oil at the installed position in real-time.

Position 1 : Crude RBO

Position 2 : Neutralized RBO



Predictive model for oryzanol concentration in neutralized RBO (Sensor 2) achieves R^2 in calibration over 0.95

MEDI FOODS

Goodness from Nature

Cold Pressed

Virgin Brown Rice Oil
น้ำมันข้าวกล้องสกัดเย็น 100%
250ml



Cold Dish – Virgin Brown Rice Oil

- ✔ Balance Fatty Acid Profile
- ✔ Rich in Vitamin E & Oryzanol 14000 ppm & Phytosterols
- ✔ VPO is cold pressed extra virgin and highest quality
- ✔ High Phytosterols



VPO Virgin Brown Rice & Safflower Oil
น้ำมันข้าวกล้องสกัดเย็นผสมน้ำมันดอกคำฝอย (250 ml)



VPO Virgin Brown Rice & Chili Oil
น้ำมันข้าวกล้องสกัดเย็นผสมน้ำมันพริก (250 ml)



VPO Virgin Brown Rice & Olive Oil
น้ำมันข้าวกล้องสกัดเย็นผสมน้ำมันมะกอก (250 ml)

Rice Bran Oil

Huggun Cooking Oils are rich in Vitamin E & Gamma Oryzanol with the most balanced fatty acid composition, special designed for all applications.

Deep fry – Original

- ✔ Rich in monounsaturated & polyunsaturated fats
- ✔ Rich in Vitamin E & Oryzanol 8000 ppm

Ideal For



Brown Rice Bran Oil น้ำมันรำข้าวกล้อง (1L)

Stir Fry – Special Blend

- ✔ The most balanced fatty acid composition
- ✔ Omega 6/ Omega 3 ratio of 4:1
- ✔ Rich in Vitamin E & Oryzanol 12000

Ideal For



Omega Brown Rice Bran Oil
น้ำมันรำข้าวกล้อง โคมก้า (500 ml)

The “King Rice Oil Group” consists of three companies:



Thai Edible Oil Co., Ltd.

The parent company; established in 1977.



Thai Ruam Jai Vegetable Oil Co., Ltd.

*The world's top ranking of the largest extraction capacity;
established in 1988.*



Thai Ruam Jai Korat Co., Ltd.

The most advance production technology; established in 2010.



Crude
Rice Bran Oil



Defatted
Rice Bran



King Rice Bran Oil
Non-Dairy Creamer



King Rice Bran Flour



LPP

Rice Bran Oil Co.,Ltd.



info.lppricebranoil@gmail.com

ใจข้าว
JAIKAO



Siam Crystal Rice Co., Ltd.



JASMINE rice bran oil
 γ -Oryzanol 13,500



Rice bran oil
 γ -Oryzanol 10,000



Sustainably produced using electrical and stream power from biomass power plant



JASMINE rice bran oil γ -Oryzanol 13,500ppm



Rice bran oil γ -Oryzanol 10,000ppm

◆ Distinctive Features of RBO Industry in Thailand

- ❖ Non-GMO rice in Thailand ➡ **Non-GMO RBO**
- ❖ Strictly following World Codex Standard ➡ **High Quality**
- ❖ Food Safety Management System ➡ **High Quality**
- ❖ Wide variety for specific usages of RBO & its co-products ➡ **Value Creation & Addition**



บริษัท สยาม พาร์บอยล์ ไรซ์ จำกัด
SIAM PARBOILED RICE CO.,LTD.



THANK YOU



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www.agi.nu.ac.th/Depart-AgroIndustry/