

Valuation of a Plantation

May 2025



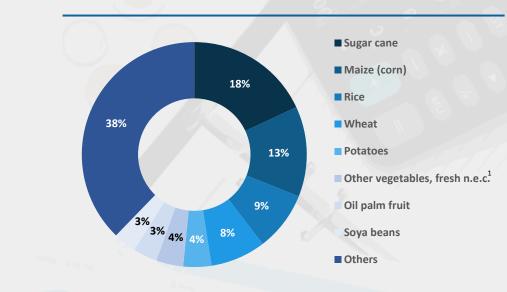


Plantation Agriculture – A Key Driver of Global Agribusiness

Plantation agriculture is a large-scale **commercial farming** practice that focuses on cultivating a **single crop** for profit. It is **capital-intensive**, requiring substantial investment, skilled labor, and advanced farming techniques such as artificial irrigation, fertilizers, and pesticides to enhance productivity. Predominantly found in **tropical regions** due to favorable climate conditions, plantation agriculture supports the global supply of key commodities such as coffee, sugarcane, cotton, tobacco, tea, rubber, oil palm, and bananas. Additionally, an **extensive transportation network** connects plantations to processing units and export hubs, ensuring **efficient distribution**.

3,000 4,689 2.500 1,912 2.000 1,500 1,311 1.190 1.000 732 500 225 202 173 143 139 127 127 126 ndonesia Mexico Türkiye Argentina China India Brazil US Russia Nigeria hailand Pakistan Ukraine France Other

Production by Country - 2023 (11,791 Million Tons)



Commodity Split (FY 2023)



Palm Oil – The World's Most Versatile Edible Oil

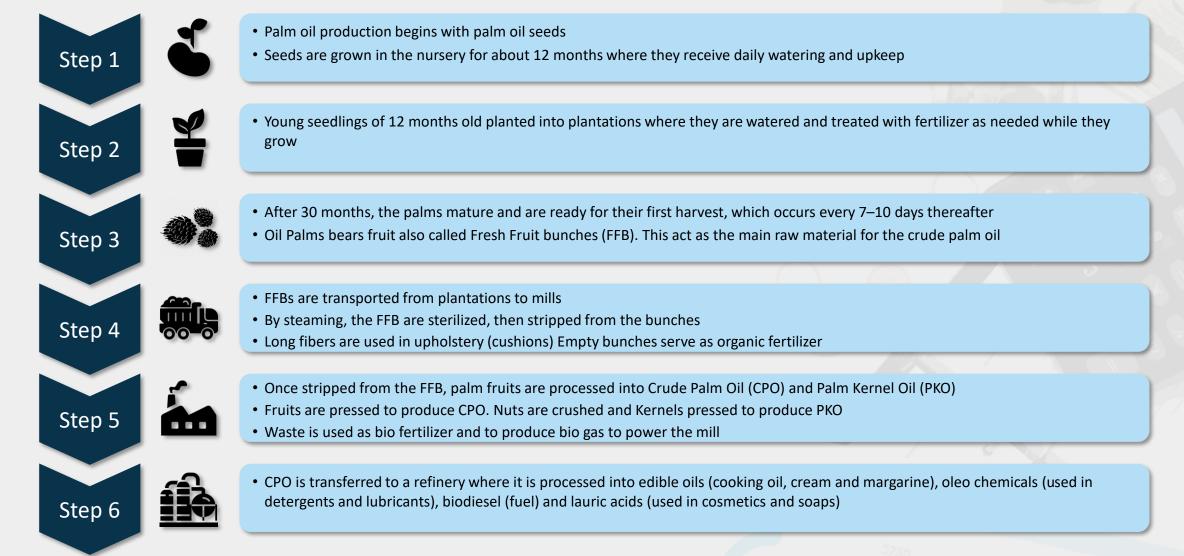
Oil palm is a tropical crop known for its high oil yield and versatile applications across food, personal care, and industrial sectors. It produces palm oil, a vegetable oil extracted from the fruit of the oil palm tree. Despite making up a small part of the U.S. diet, palm oil is found in over 50% of packaged products globally. With rising demand, the industry continues to expand—but often at the cost of tropical forests, wildlife habitats, and local communities. Sustainability is a growing focus in response to these concerns.



Food & beverages end-use dominated the market with a revenue share of more than 66.5% in 2023

From Seed to Supply: The Journey of Palm Oil

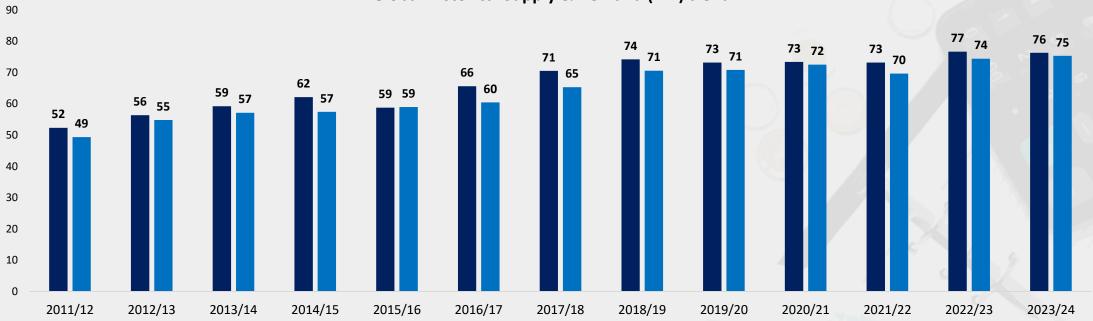






The Future of Palm Oil – Growth vs. Sustainability

Palm oil is the most widely consumed vegetable oil worldwide, accounting for approximately 35% of total global consumption. The global palm oil market is projected to reach USD 100 billion by 2030, growing at **a 5.1% CAGR** from 2023 to 2030. The **ASEAN region** remains the leading hub for palm oil cultivation, with **Indonesia** and **Malaysia** playing a crucial role in global supply and price determination.



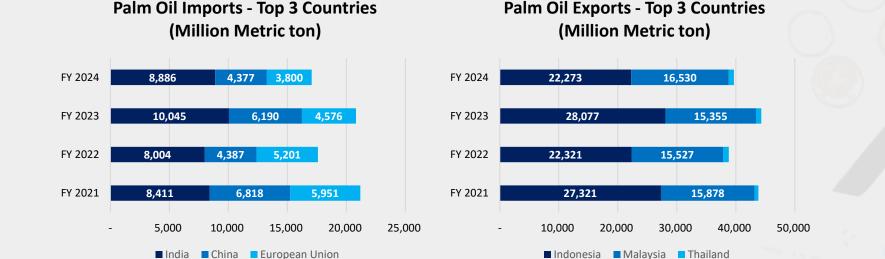
Global Historical Supply & Demand (MT) trend

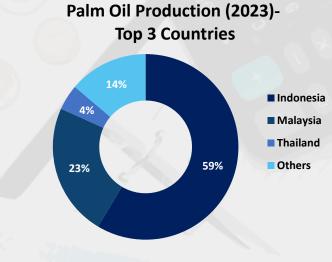
Production Domestic Consumption



Key Producers and Supply Chain Dynamics

Palm oil is the most cost-effective vegetable oil to produce, largely due to its exceptionally high yield, which is 6 to 10 times greater than that of other oil crops such as soy, rapeseed, sunflower, coconut, and olive. As of 2024, global palm oil production reached 76.3 million tonnes, accounting for approximately 35% of total vegetable oil production and consumption worldwide. Despite the high demand, global palm oil production grew at a moderate CAGR of 0.6% between 2019 and 2024. In terms of consumption, palm oil's end use in 2024 was split between food applications, which accounted for 65%, and industrial purposes, which made up the remaining 35%.





Palm Oil Exports - Top 3 Countries

Environmental Impact of Palm Oil Plantations



Deforestation, Emissions, and Biodiversity: The True Cost of Palm Oil

Soil Erosion

Erosion is a major environmental impact of palm oil plantations, especially when forests are cleared, or oil palms are planted on steep slopes. It leads to increased flooding, siltation in rivers, and higher input needs, including fertilizers and infrastructure repairs.

Air Pollution

Forest burning for palm oil plantations emits smoke and CO_2 , worsening air pollution and climate change. Peat fires are especially harmful, releasing large amounts of greenhouse gases.

Climate Change

Draining peat forests releases large amounts of stored carbon, contributing to greenhouse gas emissions. Widespread deforestation has made Indonesia the third-largest emitter of greenhouse gases globally.

Habitat Loss

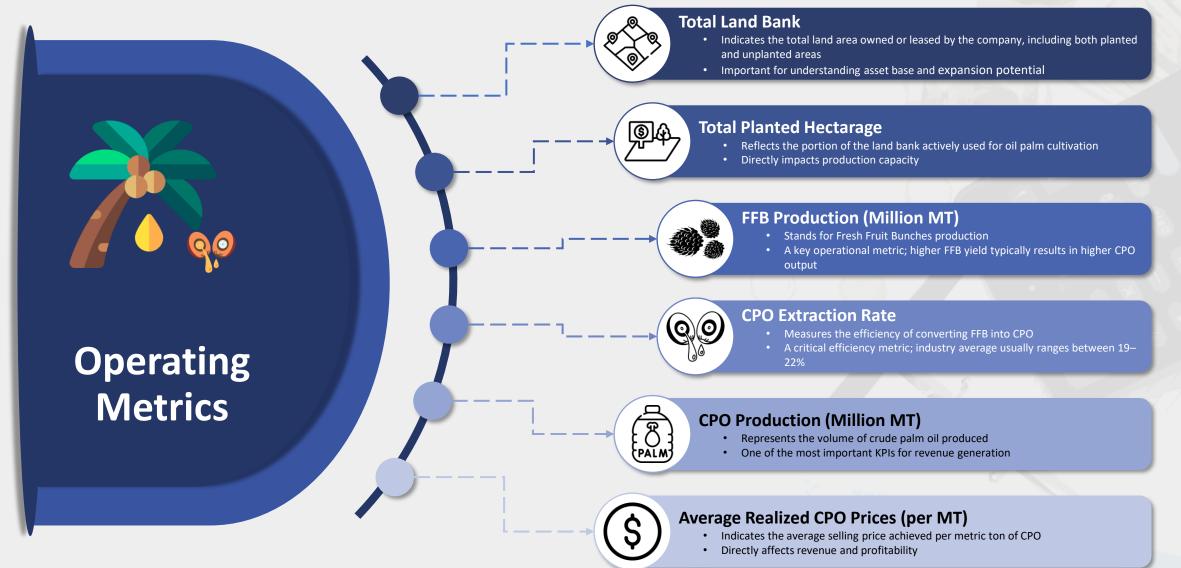
The expansion of palm oil plantations destroys habitats for endangered species, disrupts ecosystems, and increases human-wildlife conflict. Protected areas like Tesso Nilo have lost 43% of their land to illegal planting.

Soil & Water Pollution

Palm oil mills generate 2.5 metric tons of effluent per ton of oil, polluting freshwater. Fertilizers and pesticides further contaminate water sources, while deforestation on steep slopes accelerates erosion, floods, and infrastructure damage.

Driving Performance: Core Operational Metrics





Valuation Playbook: Key KPIs for CPO Plantations



EV per Planted Hectare	 Enterprise Value ÷ Total Planted Hectarage Most widely used valuation metric for comparing plantation companies Reflects the market's valuation per hectare of productive land Often compared across peers by region and maturity profile
EV/EBITDA	 Enterprise Value ÷ EBITDA Standard valuation multiple for assessing operational profitability Useful when comparing vertically integrated players
Price to Earnings (P/E) Ratio	 Market Price ÷ Earnings Per share Common but can be volatile due to cyclical nature of CPO prices Best used with normalized earnings
Net Asset Value (NAV)	 NAV = Fair Value of Total Assets – Fair Value of Total Liabilities Especially relevant for land-rich plantation companies Land is often undervalued on balance sheets; market NAV adjustments matter

Competitive Benchmarking: Peer Insights (1/2)



	SD Guthrie	FGV	KUALA LUMPUR KEPONG BERHAD		IOI GROUP
Company	SD Guthrie Berhad	FGV Holdings Berhad	Kuala Lumpur Kepong Berhad		IOI Corporation Berhad
Business Description	Upstream (end-to-end production of CPO), Downstream (Refinery), Renewables, and R&D	Plantations, Sugar and Logistics & Support Businesses.	Oil palm (98%) and rubber (2%) production		Cultivation of oil palm and processing of palm oil with operations in seed breeding, cultivation and crop oil extraction
Operating Summary:					
• Total Land Bank (Hectare)	• 729,870	• 438,867	• 355,165		• 205,073
Total Planted Hectarage	• 568,323	• 344,472	• 300,028		• 176,202
• FFB production (Million MT)	• 8.8	 Internal= 4.0 External= 10.2 Total Received = 14.2 	• 6.2		• 2.8
CPO extraction rate	• 20.9%	• 20.6%	• 21.4%		• 21.8%
• CPO Production (Million MT)	• 2.2	• 2.9	• 1.3		• 0.6
Avg. Realized CPO prices (RM/MT)	• 4,101	• 4,102	• 3,563		• 3,856
— — — — — — — — — — — — — — — — — — —		 	 	7	
• EV per Planted Hectare (US\$)	• 94.4	• 130.5	• 317.4		• 1,890.8
• Revenue Growth (CAGR 2021-24)	• (0.1%)	• 1.8%	• 4.3%		• (9.1%)
• EBITDA Margin (2024)	• 23.9%	• 5.8%	• 12.5%		• 15.3%
Net Leverage Ratio	• 1.0x	• 4.7x	• 3.5x		• 1.4x

Competitive Benchmarking: Peer Insights (2/2)



	SARAWAK OIL PALMS BERHAD GROUP OF COMPANIES	UNITED PLANTATIONS BERHAD	HAP SENG PLANTATIONS	KIM LOONG ENOURCEN ELEMAD 路陸天道太区公司 ISTOURCEN ELEMAD
Company	Sarawak Oil Palms Berhad	United Plantations Berhad	Hap Seng Plantations Holdings Berhad	Kim Loong Resources Berhad
Business Description	Involved primarily in the cultivation of oil palms and the operation of palm oil mills	Focused on cultivation of oil palm and coconuts	Engaged in upstream palm oil operations, cultivating oil palms and producing crude palm oil (CPO) from fresh fruit bunches at its own mills.	Oil palm plantations and milling
Operating Summary:				
• Total Land Bank (Hectare)	• 122,000	• 62,500	• 40,279	• 16,922
Total Planted Hectarage	• 82,309	• 50,584	• 35,002	• 16,263
• FFB production (Million MT)	 Internal= 1.2 External= 0.7 Total = 1.9 	• 0.1	• 0.7	• 0.3
CPO extraction rate	• 20.6%	• 20.8%	• 20.8%	• 20.4%
• CPO Production (Million MT)	• 0.4	• 0.3	• 0.2	• 0.3
Avg. Realized CPO prices (RM/MT)	• 3,862	 • 4,207	 • 4,791	• 4, 291
Financial Summary:				
• EV per Planted Hectare (US\$)	• 1,550.2	• 569.6	• 2,261.2	• 2,2602
• Revenue Growth (CAGR 2021-24)	• 0.5%	• 0.7%	• 1.5%	• 10.3%
• EBITDA Margin (2024)	• 13.6%	• 43.5%	• 47.3%	• 16.5%
Net Leverage Ratio	• NM	• NM	• NM	• NM

Trading Comparable



Company	НQ	Share Price	Market Cap.	EV	EV/ Revenue						A	Р/Е							
		(lc)	(mn)	(mn)	FY21	FY22	FY23	FY24	LTM	FY21	FY22	FY23	FY24	LTM	FY21	FY22	FY23	FY24	LTM
SD Guthrie Berhad	Malaysia	1.1	7,339.4	8,506.5	1.9x	1.8x	2.1x	1.9x	1.9x	7.2x	8.4x	12.6x	8.0x	8.0x	13.6x	12.9x	18.1x	23.5x	15.2x
IOI Corporation Berhad	Malaysia	0.8	5,156.8	5,549.9	2.0x	1.6x	2.2x	2.7x	2.3x	15.4x	9.7x	13.4x	17.0x	15.3x	15.4x	13.2x	21.6x	19.9x	17.8x
Kuala Lumpur Kepong Berhad	Malaysia	4.4	4,950.7	7,475.2	1.6x	1.3x	1.5x	1.4x	1.5x	8.7x	8.1x	13.1x	11.2x	11.9x	9.2x	10.6x	27.9x	20.1x	37.9x
United Plantations Berhad	Malaysia	5.2	3,259.0	3,118.8	6.3x	5.4x	6.8x	6.2x	6.0x	16.9x	14.8x	14.3x	14.0x	13.3x	26.2x	23.7x	21.1x	19.4x	19.4x
Bumitama Agri Ltd.	Indonesia	0.6	1,126.9	1,365.0	1.6x	1.3x	1.4x	1.3x	1.3x	5.5x	3.8x	4.7x	4.8x	4.7x	9.3x	6.2x	7.1x	7.9x	7.8x
FGV Holdings Berhad	Malaysia	0.2	889.0	2,587.0	0.6x	0.4x	0.6x	0.5x	0.5x	4.4x	4.4x	10.2x	9.0x	9.0x	3.2x	2.9x	40.1x	10.4x	14.4x
Johor Plantations Group Berhad	Malaysia	0.3	676.8	901.1	2.4x	2.3x	3.3x	2.6x	2.6x	5.9x	5.5x	11.5x	8.0x	8.0x	8.2x	6.0x	18.6x	11.8x	11.7x
M.P. Evans Group PLC	UK	12.7	674.9	635.0	2.3x	1.9x	2.1x	1.8x	1.8x	5.2x	5.0x	6.3x	4.5x	4.4x	7.8x	9.2x	12.9x	7.6x	7.5x
Sarawak Oil Palms Berhad	Malaysia	0.7	600.4	395.1	0.4x	0.3x	0.4x	0.4x	0.3x	1.8x	2.1x	3.2x	2.5x	2.3x	4.9x	5.5x	9.2x	6.7x	5.9x
Kim Loong Resources Berhad	Malaysia	0.5	505.6	449.7	1.9x	1.1x	1.0x	1.4x	1.2x	11.4x	7.5x	6.8x	8.2x	7.2x	21.5x	15.5x	13.3x	15.3x	13.9x
Hap Seng Plantations Holdings Berhad	Malaysia	0.4	351.5	223.8	1.4x	1.2x	1.5x	1.3x	1.3x	2.6x	3.0x	5.6x	2.8x	2.8x	6.5x	7.3x	17.6x	11.4x	7.7x
The Okomu Oil Palm Company Plc	Nigeria	0.4	339.2	349.2	3.8x	2.6x	4.1x	4.1x	3.6x	7.5x	5.5x	9.1x	9.7x	7.4x	12.1x	9.4x	14.6x	15.2x	13.1x
PT Austindo Nusantara Jaya Tbk	Indonesia	0.1	324.7	453.3	1.7x	1.7x	1.9x	1.9x	1.9x	5.5x	6.7x	9.5x	7.9x	7.8x	8.8x	14.9x	63.0x	33.6x	33.6x
Kretam Holdings Berhad	Malaysia	0.1	277.2	266.0	1.4x	1.4x	1.6x	1.6x	1.6x	5.4x	6.4x	6.9x	7.9x	7.8x	7.5x	11.2x	11.7x	7.1x	7.0x
PT Jhonlin Agro Raya Tbk	Indonesia	0.0	200.4	297.1	6.8x	1.0x	1.0x	1.2x	1.2x	NM	13.0x	11.8x	8.3x	8.3x	NM	NM	NM	12.3x	12.3x
Innoprise Plantations Berhad	Malaysia	0.4	191.2	182.1	3.3x	3.0x	3.7x	2.9x	2.9x	5.7x	6.2x	9.6x	5.8x	5.7x	9.2x	10.1x	16.7x	9.8x	9.6x
Chin Teck Plantations Berhad	Malaysia	1.9	170.1	68.9	1.6x	1.2x	1.6x	1.1x	1.1x	3.5x	2.5x	5.4x	2.6x	2.4x	10.4x	7.1x	14.8x	7.7x	7.6x
PT Eagle High Plantations Tbk	Indonesia	0.0	107.0	387.7	1.9x	1.3x	1.4x	1.5x	1.4x	6.9x	5.4x	5.4x	4.5x	4.5x	NM	NM	9.3x	6.4x	6.4x
NPC Resources Berhad	Malaysia	0.6	70.0	112.7	1.3x	1.2x	1.2x	1.0x	1.0x	6.1x	8.2x	6.2x	3.6x	3.6x	27.9x	NM	33.5x	7.6x	7.6x
Benso Oil Palm Plantation PLC	Ghana	1.7	60.7	57.3	1.6x	1.6x	1.9x	2.4x	2.4x	3.3x	3.3x	6.0x	7.4x	7.4x	4.0x	3.7x	7.1x	9.6x	9.6x
Cepatwawasan Group Berhad	Malaysia	0.2	50.5	38.2	0.4x	0.5x	0.6x	0.6x	0.6x	1.7x	2.3x	3.3x	2.9x	2.9x	4.2x	7.0x	11.4x	10.5x	10.4x
MHC Plantations Bhd.	Malaysia	0.2	47.0	91.1	0.6x	0.7x	0.9x	0.8x	0.8x	2.9x	3.6x	5.3x	4.3x	4.3x	4.7x	5.9x	9.8x	7.3x	7.5x
Riverview Rubber Estates, Berhad	Malaysia	0.6	41.6	35.6	2.7x	2.8x	4.7x	4.8x	4.7x	4.5x	6.9x	16.4x	12.6x	12.4x	7.5x	12.9x	30.5x	22.0x	21.7x
Kencana Agri Limited	Indonesia	0.1	19.5	189.1	1.5x	1.2x	1.4x	1.2x	1.2x	3.2x	4.6x	7.6x	3.6x	3.6x	1.2x	7.5x	NM	1.6x	1.6x
				Mean	2.1x	1.6x	2.0x	2.0x	1.9x	6.2x	6.1x	8.5x	7.1x	6.9x	10.1x	9.7x	19.5x	12.7x	12.8x
				Median	1.7x	1.3x	1.5x	1.4x	1.5x	5.5x	5.5x	7.2x	7.6x	7.3x	8.5x	9.2x	15.8x	10.4x	10.0x

Trading Comparable: Operating Performance



Company	HQ	CA		EE	BITDA Marg	;in		Net Income Margin						
		Revenue	EBITDA	Net Income	FY21	FY22	FY23	FY24	LTM	FY21	FY22	FY23	FY24	LTM
SD Guthrie Berhad	Malaysia	(0.1%)	(3.7%)	(16.7%)	26.7%	21.1%	16.8%	23.9%	23.9%	12.2%	11.8%	10.1%	7.0%	10.9%
IOI Corporation Berhad	Malaysia	(9.1%)	(3.2%)	(8.3%)	13.3%	16.2%	16.7%	16.0%	15.3%	12.4%	11.1%	9.6%	12.7%	12.1%
Kuala Lumpur Kepong Berhad	Malaysia	4.3%	(8.0%)	(23.1%)	17.9%	15.9%	11.4%	12.3%	12.5%	11.3%	8.0%	3.5%	4.6%	2.6%
United Plantations Berhad	Malaysia	0.7%	6.5%	10.5%	37.4%	36.4%	47.4%	44.3%	45.3%	25.2%	23.8%	33.6%	33.4%	32.5%
Bumitama Agri Ltd.	Indonesia	6.5%	4.5%	5.5%	29.0%	35.2%	29.2%	27.3%	27.3%	14.1%	17.9%	15.9%	13.7%	13.7%
FGV Holdings Berhad	Malaysia	1.8%	(21.1%)	(32.8%)	12.4%	10.2%	6.0%	5.8%	5.8%	6.0%	5.2%	0.5%	1.7%	1.2%
Johor Plantations Group Berhad	Malaysia	(2.8%)	(9.6%)	(11.4%)	41.0%	40.9%	28.6%	33.1%	33.1%	22.3%	28.3%	13.3%	16.9%	16.9%
M.P. Evans Group PLC	UK	8.5%	5.2%	0.6%	44.1%	38.8%	32.7%	40.3%	40.3%	31.2%	22.3%	17.1%	24.9%	24.9%
Sarawak Oil Palms Berhad	Malaysia	0.5%	(6.4%)	(9.9%)	20.2%	15.7%	11.1%	14.6%	13.6%	11.5%	9.0%	5.9%	8.3%	7.9%
Kim Loong Resources Berhad	Malaysia	10.3%	11.6%	12.0%	16.4%	14.7%	14.7%	17.0%	16.5%	9.8%	8.0%	8.5%	10.2%	9.6%
Hap Seng Plantations Holdings Berhad	Malaysia	1.5%	(2.0%)	(16.9%)	52.6%	40.1%	27.4%	47.3%	47.3%	33.4%	25.8%	13.7%	18.3%	27.2%
The Okomu Oil Palm Company Plc	Nigeria	1.2%	0.1%	(2.5%)	50.8%	47.2%	50.7%	49.1%	49.1%	30.7%	27.1%	24.0%	27.5%	27.5%
PT Austindo Nusantara Jaya Tbk	Indonesia	(4.0%)	(11.1%)	(36.1%)	30.8%	25.1%	20.2%	24.4%	24.4%	13.8%	8.1%	2.2%	4.1%	4.1%
Kretam Holdings Berhad	Malaysia	(4.7%)	(11.5%)	2.0%	25.9%	21.4%	22.6%	20.8%	20.8%	19.5%	12.7%	13.8%	23.9%	23.9%
PT Jhonlin Agro Raya Tbk	Indonesia	76.7%	75.0%	144.1%	15.3%	7.7%	8.8%	14.9%	14.9%	2.6%	0.9%	1.7%	6.7%	6.7%
Innoprise Plantations Berhad	Malaysia	4.0%	(0.8%)	(2.0%)	58.1%	47.8%	38.9%	50.4%	50.4%	37.4%	30.7%	23.4%	31.4%	31.4%
Chin Teck Plantations Berhad	Malaysia	11.7%	11.2%	7.2%	44.2%	47.6%	28.7%	43.7%	45.6%	37.3%	41.3%	25.9%	33.0%	35.9%
PT Eagle High Plantations Tbk	Indonesia	9.0%	15.3%	(154.7%)	27.1%	24.4%	26.3%	32.1%	32.1%	(47.8%)	0.4%	4.2%	6.0%	6.0%
NPC Resources Berhad	Malaysia	9.8%	19.2%	54.5%	21.9%	14.5%	18.7%	28.0%	28.0%	3.0%	(0.4%)	2.1%	8.3%	8.3%
Benso Oil Palm Plantation PLC	Ghana	(12.6%)	(23.4%)	(25.5%)	49.0%	49.4%	32.7%	32.9%	32.9%	43.2%	47.1%	29.2%	26.8%	26.8%
Cepatwawasan Group Berhad	Malaysia	(7.9%)	(16.0%)	(26.5%)	25.2%	20.5%	17.5%	19.1%	19.1%	13.9%	8.8%	6.7%	7.1%	7.1%
MHC Plantations Bhd.	Malaysia	(7.8%)	(11.9%)	(14.0%)	21.8%	18.8%	16.5%	19.0%	19.0%	7.0%	5.8%	4.6%	5.7%	5.7%
Riverview Rubber Estates, Berhad	Malaysia	(17.9%)	(29.1%)	(30.3%)	59.6%	40.9%	28.9%	38.3%	38.3%	41.8%	25.6%	18.1%	25.5%	25.5%
Kencana Agri Limited	Indonesia	6.2%	(3.5%)	(10.8%)	45.9%	26.7%	18.3%	34.5%	34.5%	13.1%	1.7%	(0.2%)	7.8%	7.8%
	Mean	3.6%	(0.5%)	(7.7%)	32.8%	28.2%	23.8%	28.7%	28.7%	16.9%	15.9%	12.0%	15.2%	15.7%
	Median	1.3%	(3.4%)	(10.3%)	28.1%	24.7%	21.4%	27.6%	27.6%	13.9%	11.5%	9.9%	11.5%	11.5%



Thank You



neerav.gala@artovaladvisors.com

+91 98191 95731



https://in.linkedin.com/in/neeravgala



https://artovaladvisors.com/

