



JACK FRUIT EXPORTS FROM INDIA

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1.1 INTRODUCTION

Jackfruit belongs to the **MARACEAE** family. Its other name is *Artocarpus heterophyllus*. Its shape is roughly oblong. *Artocarpus heterophyllus* is the largest fruit in the world, reaching up to 60 cm (about 2 feet) long and weighing up to 18 kg (about 40 pounds); it's cultivated in hotter parts of India. Jackfruit's native places are the Western Ghats of India and Malaysia, and it is also found in central and eastern Africa, southeastern Asia, the Caribbean, Florida, Brazil, Australia, Puerto Rico, and many Pacific Islands. The plant has a straight, rough stem that is 1.25 thick, excluding milky latex and broad obovate leaves. Male heads are sessile with short peduncle receptacles, sometimes born on the ultimate twin. Female heads have oblong ovoid receptacles, syncarpous, and cyclists, with seeds separated by horny endocarps and sub-gelatinous exocarpus (1mm thick) oblong ellipsoid in nature. It's like sweet yellow sheaths, around 3-5mm thick, with a taste similar to pineapple but milder and less juicy. Jackfruit trees, reaching 15-20 meters tall, have glossy green leaves and small unisexual flowers on dense inflorescences from the trunk and branches.

1.2 HEALTH BENEFITS OF JACK FRUIT

Jackfruit, a fruit with numerous beneficial physiological activities, is known for its antibacterial, antifungal, antidiabetic, anti-inflammatory, and antioxidant properties. Jackfruit is rich in phytonutrients like carotenoids, which can serve as antioxidants. Jackfruit contains functional compounds that reduce diseases like high blood pressure, heart diseases, strokes, and bone loss, improve muscle and nerve function, and decrease homocysteine levels. Jackfruit is a rich source of vitamin C, essential for skin protection, collagen production, skin strength, and oral health, preventing ageing and sun exposure damage. Jackfruit, containing flavonoids, is anti-inflammatory. Effects by inhibiting the release of inflammatory mediators from mast cells, neutrophils, and macrophages. Jackfruit's phytonutrients, including lignans, isoflavones, and saponins, have anticancer, antihypertensive, antiulcer, and antiaging properties, preventing cancer of cell formation and fighting stomach ulcers. Ruiz-Montanez et al.'s study found that jackfruit contains chemoprotective compounds that reduce AFB1 mutagenicity and cancer cell proliferation, and jackfruit flesh may effectively prevent or treat lymphoma. Jackfruit contains niacin, which is crucial for energy metabolism, nerve function, and the production of certain hormones.

Jackfruit's dietary fibre is a beneficial bulk laxative, reducing exposure to cancer-causing chemicals, minerals, and Vitamins while protecting the colon mucous membrane. Jackfruit's high fibre content promotes smooth bowel movements and prevents constipation, while flesh and seeds are a cooling and nutritious tonic. Jackfruit's rich magnesium content prevents bone-related disorders like osteoporosis by promoting calcium absorption and strengthening bones.

1.3 GLOBAL MARKET FOR JACK FRUIT

The CMI team's research indicates a 4% CAGR in the global market of jackfruit from 2023-2032, with a projected valuation of USD 315.91 million in 2023 and USD 395.7 million by 2032. The global jackfruit market is primarily driven by demand from south and southeast Asia, with 60% growth in this region. Major consuming countries include India, Philippines, Bangladesh, Indonesia, Sri Lanka, Malaysia, and North America.

1.4 JACK FRUIT PRODUCTION IN INDIA

There are four major jackfruit growing states in India, producing abundant fruit organically without additional care or farming practices. Jackfruit is a state fruit of Kerala. Kerala's annual jackfruit production is 190.14



thousand tonnes, with an estimated 35 core wastage. During harvesting season, jackfruit is abundant and available at a nominal price.

1.5 JACK FRUIT EXPORTS FROM INDIA

Volz's India Export data shows that jackfruit exports from India reached 8.8k, with 665 India Exporters exporting to 1297 buyers. India is the world's top exporter of *Artocarpus heterophyllus*, primarily to the United Arab Emirates, the United Kingdom and the United States. India, Vietnam and Sri Lanka are the top three exporters of jackfruit, with India shipments at 8,824, Vietnam at 1990, and Sri Lanka at 791.

1.6 GROWTH RATE OF JACK FRUIT IN QUANTITY FROM THE YEAR 2012-2023

YEAR	QUANTITY (VALUE IN THOUSANDS)	PERCENTAGE	GROWTH RATE
2012-2013	31917.8	13.81	-6.309
2013-2014	30023.58	12.99	-6.733
2014-2015	28129.36	12.17	-7.220
2015-2016	24340.93	10.53	-7.782
2016-2017	22446.49	9.71	-8.438
2017-2018	20552.49	8.90	9.216
2018-2019	18658.27	8.08	-10.152
2019-2020	16764.05	7.26	-11.299
2020-2021	14869.83	6.44	-12.738
2021-2022	12975.61	5.62	-14.598
2022- 2023	10372.88	4.49	-17.093

Source: APEDA

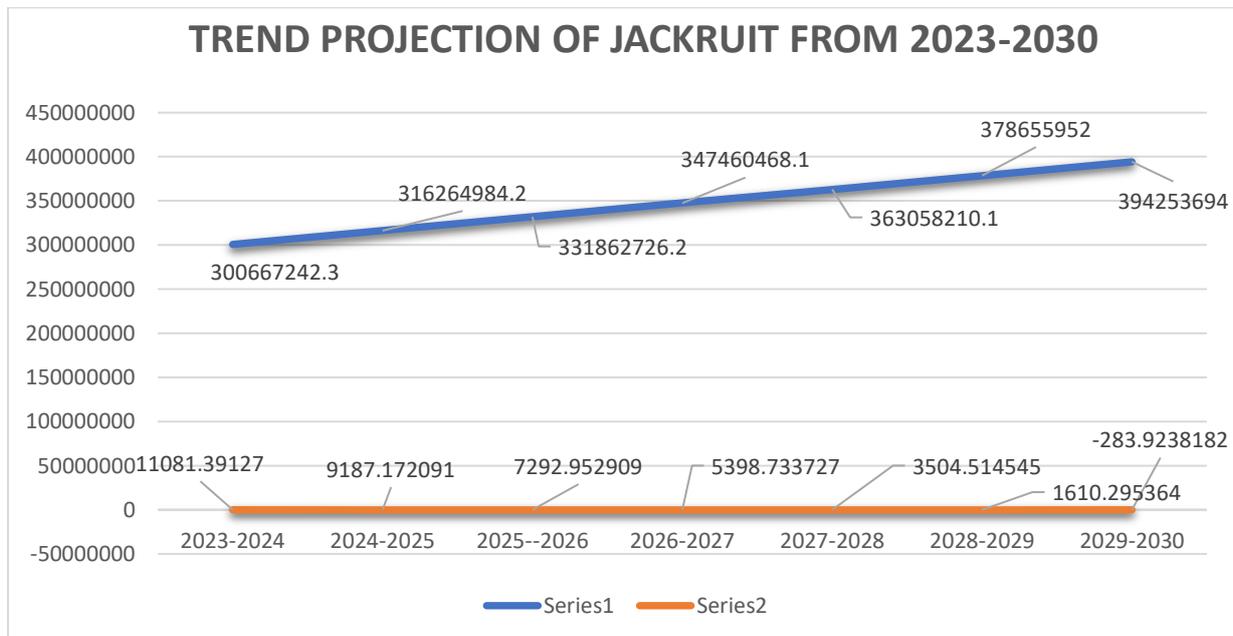
TABLE 2: Growth rate of Jack fruit by Value for the year 2012-2023

YEAR	VALUE (value in lac)	PERCENTAGE	GROWTH RATE
2012-2013	129092080.7	6.69	10.78
2013-2014	144689822.7	7.80	9.73
2014-2015	160287564.6	7.77	8.86
2015-2016	175885306.6	7.03	8.14
2016-2017	191483048.6	7.58	7.53
2017-2018	207080790.5	8.01	7.00
2018-2019	222678532.5	9.45	6.54
2019-2020	238276274.4	9.09	6.14
2020-2021	253874016.4	8.84	5.78
2021-2022	269471758.3	12.89	5.47
2022-2023	285069500.3	14.83	5.18

Source: APEDA

1.8 TREND PROJECTION OF JACK FRUITS FOR THE YEARS OF 2023- 2030

YEAR	QUANTITY	VALUE
2023-2024	11081.39	300667242
2024-2025	9187.12	316264984
2025-2026	7292.953	331862726
2026-2027	5398.734	347460468
2027-2028	3504515	363058210
2028-2029	1610.295	378655952
2029-2030	293.924	394253694



CONCLUSION

The analysis has proved that the production, quantity, and value-wise exports of jackfruits have fluctuated, and the trend projection for the coming years is also not welcome. The government has to take steps to considerably improve the quantity and value of jackfruit exports by framing appropriate strategies to improve them.

REFERENCES

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