How To Harvest 500kgs of Hydroponic Tomatoes Per Week in Africa

Showcasing hydroponic tomato cultivation in Ngong, Kenya. The key to success begins with the greenhouse structure.

The greenhouse spans an impressive 8 meters by 30 meters. It’s constructed using durable galvanized steel, ensuring longevity. We take pride in using high-quality UV-treated polyvinyl sheets, state-of-the-art water reservoirs, and an efficient rain harvesting system. Easier methods have also been incorporated for opening and closing the flaps, enhancing overall functionality.

Tomato plants are currently five months old and thriving. They stand tall and are expertly staked. Trellising or staking plays a pivotal role in creating ample space for plant growth, effectively preventing the multiplication of pests and diseases through improved spray coverage. Additionally, this technique redirects more energy toward fruit clusters, resulting in a bountiful harvest. This season, reported a bumper yield of 450 to 500 kgs per week from this 8 meters by 30 meters greenhouse, thanks in part to the specialized tomato nutrients provided by Grandeur Africa. To bolster tomatoes’ immunity, we utilize organic seaweed extract as a plant strengthener. Notably, we employ locally available Pumice, also known as volcanic rock, as the growing medium for our tomatoes.

Challenges

Challenges are a part of hydroponic greenhouse farming, and we’ve encountered a few. Thrips and leaf miners have posed occasional issues, as pests are not uncommon in hydroponic

setups. However, our diligent team conducts daily scouting and employs organic pest control products like pyrethrum and garlic extracts. Additionally, during colder seasons, we face the challenge of fungal diseases such as powdery mildew. To combat these issues, we turn to organic fungicides specially formulated by Grandeur Africa.