Napier Cultivation

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Napier Grass Cultivation

Napier grass is one of the important perennial tropical forage crop belong to family Poaceae. It is also called Uganda grass or elephant grass. It is native to Africa but is now grown in many tropical countries. It is C4 plant and can grow well in marginal land.

The grass grows tall and forms large clumps like bamboo.

Economic parts: Leaves & stems

USAGE

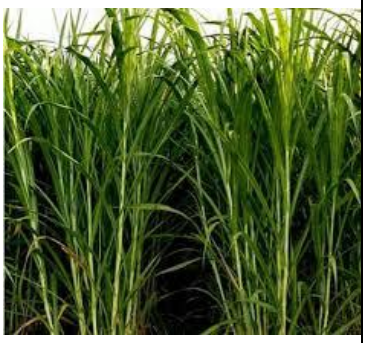
Basic requirements :

Napier grass is best grown in warm, tropical and subtropical regions. And grows well up to an altitude of 2000 m from sea level. Generally it perform very well at temperature ranging from 25 to 40 degree celsius. Napier grass is very sensitive to frost and water logging conditions.

Planting

Napier grass usually produces few full form seeds. So the main mode of propagation is by stem cuttings. The cuttings with five internodes are planted by inserting into furrows at 75 cm apart, both along and between the rows.

FORAGE MANAGEMENT



Establishment and yields : Elephant grass produces very few seeds and is mostly propagated vegetatively through stem cuttings consisting of at least 3 nodes, 2 of which are buried in rows.

Row width ranges from 50 to 200 cm and distance within rows is between 50 and 100 cm After planting, elephant grass grows vigorously and can reach 4 m in 3 months Elephant grass is fast growing and has a high annual productivity that depends on the climatic conditions, especially temperature and rainfall Elephant grass requires high levels of fertilizer and a regular water supply .

Yields range from 20 to 80 t DM/ha/year under high fertilizer inputs With no, or inadequate, fertilizer, yields are in the range of 2-10 t DM/ha/year Cuttings can be made at 45-90 day intervals, depending on location

FRESH GRASS

The ideal harvest regime depends on the cultivar, weather conditions, soil fertility, management practices and livestock needs. In Kenya, the recommendation is to harvest elephant grass for the first time when it attains a height of 1-1.2 m, usually 3-4 months after planting.

Thereafter the grass should be harvested at intervals of 6 to 8 weeks, at the same height. Well-managed elephant grass can be harvested every month in hot and wet environments, or every 2 months in drier areas. Harvesting at longer intervals produces higher DM yields but lower quality forage as protein and ash content, digestibility and leaf-to-stem ratios decline. Leaving 10-15 cm high stubble provides sufficient carbohydrate reserves for subsequent re growth.

Elephant grass is often fed fresh in cut-and-carry systems. It can be manually or mechanically chopped prior to feeding to reduce the selection of leaves and stems by the animal. Chopping and then wilting in the sun for several hours reduces moisture, stimulates appetite, facilitates rumination and thus improves forage utilisation

Management:

Irrigation: This grass does not need much water and can be irrigated in a week duration.

Pest: No serious pest is reported

Caution:

- Avoid water logging soil
- Timely weeding should be done
- Avoid use of chemicals/synthetic fertilizers, pesticides or weedicides.

Harvesting and Yield

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Economics

❖ **Expenditure per acer:**

Plant spacing	**Plant density(acre)**	**Cost per plant**	**Total cost**	**Cost of fertilizers**	Total amount
1.5 ft	20000 stem	Rs 5/-	20000x 5 rs= 100000	As per plant requirement	1,00,000/-
Total investment = Rs 1,00,000/-					

❖ Income from wet leaf

Production per year (Per acers)	Cuttings pr year	Total (Approx.)	Company buys back price/ kg	Total
1st year	4 times	40000 kg	Rs 3	Rs 1,20,000
2nd year	4 times	40,000 kg	Rs 3	Rs 1,20,000
3rd year	4 times	40,000 kg	Rs 3	Rs 1,20,000
4th year	4 times	40,000 kg	Rs 3	Rs 1,20,000
5th year	4 times	40,000 kg	Rs 3	Rs 1,20,000
Total income in 5 years = Rs 600000/-				

❖ Income from dry leaf

Production per year (Per acers)	Cuttings pr year	Total (Approx.)	Company buys back price/ kg	Total
1st year	4 times	3000 kg	Rs 50	Rs 1,50,000
2nd year	4 times	3000 kg	Rs 50	Rs 1,50,000
3rd year	4 times	3000 kg	Rs 50	Rs 1,50,000
4th year	4 times	3000 kg	Rs 50	Rs 1,50,000
5th year	4 times	3000 kg	Rs 50	Rs 1,50,000
Total income in 5 years = Rs 7,50,000/-				

❖ Technical Support &Services:

We also provide technical support for farming. Our Service Department with technically qualified staff provide after sales service and farmers advisory services to our customers to get better plant establishment and faster growth of Herbal and Horticultural plantations.

We have largest network of employees who deliver Plants to customers at their door steps. Free technical services to customers on planting method, management practices and plant protection measures. Our teams of Agricultural Experts periodically visit and supervise the plantations and suggest necessary guidelines to get better growth and high returns. Services:

1. This includes Supervision, consultancy, guidance, Transportation cost first year.
2. First production start after 1stYear and production will remain next 5year.
3. Buy back agreement of Napier.
4. The income expenditure indicated by the company is an approximated figure, as it also depends on the nature and hard work of the farmer

❖ Terms And Conditions:

1. For1 Acre plantation the cost of Plants is Rs.100000/-out of which 50% has to be paid before the cultivation and the remaining half after the planting is done.
2. The Buy Back Agreement StamppaperofRs.100/-has to best amped by District Court of your area.
3. For 10 Acre or more yield the buy Back Agreement Stamp Paper will be of Rs.500/-

(“Look deep into nature,
And then you will understand
everything better”)

For More Information Contact Us :

MAATITATVA AGRO INDUSTRIES PVT. LTD.

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"MAATITATVA AGRO INDUSTRIES PVT.LTD OF COMPANIES"**was established in the year 2019 in Indore - Madhya Pradesh (India). The company is growing at a rapid pace under the farsighted guidance of highly skilled professionals. Besides, we also deal in "Contract Farming". Our experience in cultivation, marketing of plants and seeds enable us to assist the farmers in the best possible manner. Consequently, we have earned recognition in the market. We Have deal in herbal powder, Dry Herbs, Herbal Product, spices ETC.**

Thank you