



TITAN AGRITECH LTD.

Bharose Se Kheti, Vishwas Se Vyapar



SUGARCANE

Package Of Practices

1. Field Preparation

Grow a green manure crop (Dhaincha/Sunhemp) and incorporate it into the soil after 60 days. Level the field after disc ploughing and pulverize the soil to achieve a fine tilth, free from weeds and stubbles.

Mix FYM/Compost @ 10 t/acre before the last ploughing or in furrows along with 2 kg **Crop Tiger** per acre, **Bareek** (Beauveria bassiana 1.15% WP) @ 2 kg, and **Merhizo** (Metarhizium anisopliae 1.0% WP) @ 2 kg/acre at the time of field preparation.

2. Planting

Planting season: Eksali (Tropical): Jan-Mar; Adsali: Jul-Sep

Spacing: 90 cm (120 cm for highly fertile soils), furrow depth: 30 cm

Sett rate:

>Two-bud setts: 35,000 setts/acre

>Single-bud setts: 53,000-53,500 setts/acre

3. Sett Treatment

Use healthy setts treated with:

Tricho-Pep H (Trichoderma harzianum 2.0% AS) +

Pseudo-Pep (Pseudomonas fluorescens 1.0% WP)

Or

Claun (Carbendazim 50% WP) @ 100 g/100 L water for 10 minutes

For fields with a history of termite attack, treat setts with:

50 g **Claun** + 200 ml **Behtar** (Chlorpyrifos 20% EC) + 1 kg Urea/100 L water for 10 min

4. Fertilizer Management

Apply **Myco-Pep** (Mycorrhizae) @ 4-8 kg/acre by broadcasting it across the field or by mixing it with 80-100 kg FYM/compost and applying it in the furrows at the time of planting.

The ideal timing for field application is 30-60 days after sowing the setts, with a second application around 90 days to support the establishment of a strong symbiotic relationship with sugarcane roots.

Myco-Pep help improve nutrient absorption, water uptake, and stress tolerance and also provide protection against certain soil-borne pathogens.

5. Biofertilizer Application

Mix 1-2 kg each of **Prissa** (Phosphorus Solubilizing Bacteria) & **Krisa** (Potassium Solubilizing Bacteria) inoculant and 1-2 ml of **Ozeto** (Acetobacter) with 50 kg of finely powdered FYM. Broadcast at the time of the last ploughing.

Drench the soil with **Ozeto** directly in furrows during planting or later apply to soil during earthing-up (30 & 60 DAP).

Biofertilizer use can reduce nitrogen requirement by 25%.

Apply **Bayani** (Potassium Source Derived from Rhodophytes) as a foliar spray at 30 and 60 DAP to boost growth and correct potassium deficiency.

6. Weed Management

Pre-emergence (3-4 DAP):

Bironi (Atrazine 50% WP) @ 800 g/acre

Post-emergence (after 30 DAP, for broadleaf weeds):

Subang (2,4-D Amine Salt 58% SL) @ 400-800 ml/acre

7. Irrigation Schedule (Loamy Soil)

Crop Stage	Interval
Germination (0-35 days)	Every 7 days
Tillering (36-100 days)	Every 10 days
Grand growth (101-270 days)	Every 7 days
Maturity (271 days onwards)	Every 15 days

8. Earthing Up

Partial: 45 DAP

Final: 90 DAP

9. Vegetative stage

On Sugarcane leaves, spray **Zybgro** (Gibberellic Acid 0.001% L) @ 70-80 ml diluted in 180-200 L water.

Apply between 30-60 days after sowing the setts; a second application may be done around 90 days to enhance growth.

10. Pest Management

Insect Pests

Insecticides

Pepora (Chlorantraniliprole 18.5% SC) for managing second and third broods of top borer.

Dustigo (Profenofos 40% + Cypermethrin 4% EC) for controlling Gurdaspur borer.

Lamron 5 (Lambda Cyhalothrin 5% EC) or **Pepora** for leafhoppers.

Bio-controls

Apply **Bareek** (Beauveria bassiana 1.15% WP) + **Merhizo** (Metarhizium anisopliae 1.0% WP) for broad insect suppression.

Apply **Zyami** (Bacillus thuringiensis kurstaki 0.50% WP) topically for shoot borer and internode borer.

Diseases:

Fungicides

Apply **Claun** (Carbendazim 12% + Mancozeb 63% WP) or **Chloper** (Copper Oxychloride 50% WP) for red rot and other fungal diseases.

Bio-controls

Apply **Tricho-Pep H** and **Pseudo-Pep** for soil and seed treatment to improve disease resistance.

11. Ethephon for Ripening & Uniform Maturity

Peppy-X (Ethephon 39% SL) @ 2-2.5 ml/L water

Spray at crop age 8-9 months, i.e., 30-45 days before harvest



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Subang
2,4-D Amine Salt
58% SL
(1 L/500 ml/250 ml)



Tricho-Pep H
T. harzianum
2.0% AS
(1 L)



Zybgro
Gibberellic Acid
0.001% L
(1 L/500 ml/250 ml/
100ml)



Peppy-X
Ethephon 39% SL
(500 ml/250 ml/100 ml)



Dustigo
Profenofos 40% +
Cypermethrin
4% EC
(1 L)



Lamron 5
Lambda-cyhalothrin
5% EC
(1 L/500 ml/250ml
100 ml)



Pepora
Chlorantraniliprole
18.5% SC
(150 ml/60 ml/30 ml)



Bayani
Potassium
Source Derived
from Rhodophytes
(48 g)



Merhizo
Metarhizium
anisopliae 1% WP
(1 Kg)



Mycoprep
Mycorrhizae
(4 Kg)



Chloper
Copper Oxychloride
50% WP
(500 g)



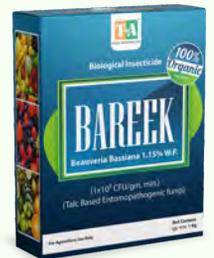
Bironi
Atrazine 50% WP
(500 g)



Pseudo-Pep
P. fluorescens
1.0% WP
(1 Kg)



Claun
Carbendazim 12%+
Mancozeb 63% WP
(1 Kg/500 g/250 g)



Bareek
Beauveria bassiana
1.15% WP
(1 Kg)



Ozeto
Acetobacter
(1 L/500 ml)



Behtar
Chlorpyrifos
20% EC
(1 L/500 ml)



Crop Tiger
(1 Kg/500 g)



Zyami
Bacillus thuringiensis
kurstaki 0.50% WP Min.
(1 Kg)



Prissa & Krisa
Phosphorus Solubilizing
Bacteria (PSB) &
Potassium Solubilizing
Bacteria (KSB)