

- A hnah hrisel lo leh natna kai hrim hrim chu paikh vek a, halfai vek tur. A theih chuan Bordeaux mixture (1:1:100) in a chin tirk atanga thla hniah danah kah theih ni se.

#### Bacterial Wilt:

Lei atanga inkaichhawn theih natna a ni a, a thlentu chu *Ralstonia solanacearum* a ni. Fur tui tam laiin he natna hi a hluar duh hle a ni.

#### Natna lanchhuah dan:

- A natna kai lai hi a lo uk a, thil tuhnang eng deuh a lo chhuak thin.
- A natna rawn lanna hmasa ber chu a hnah rawn kir tan atang a ni a. A hnah chu a hnuai atanga rawn eng tanin a hnah chunglam thleng a rawn eng chho ta thin a ni. A sawhthing bal thlengin a chhiat phah thin a ni.
- A natna kai tawh kung leh zung te han hmeh chuan thil hnang a rawn chhuak thin.

#### Enkawl dan:

- Chi hrisel chauh thlan tur ani a.
- Tui luanchhuahna tha taka duan tur. Tui pek tam lutuk loh tur.
- A chi chu lin hmain *Trichoderma harzianum* @ 5g/kg a sawngbawl tur.



Bacterial Wilt

#### Hnah De Natna (Leaf Spot):

He natna hi *Phyllosticta zingiberi* in a thlen ni in Sawhthing hnah chu rawn val a, rawn zuv telh telhin a lai tak chu a rawn var a, a sir kual vel chu lo eng zelin a lo ro ta thin a ni. Khaw hnawngah he natna hi a dark chak in a nasa duh em em bawk thin a ni.

#### Enkawl dan:

Bordeaux mixture 1 % in he natna hi a enkawl theih a ni.



Hnah de natna (Leaf Spot)

#### Sawhthing Zik Kertu (Ginger Shoot Borer):

Sawhthing eichhetu pangang chikhat *Dichocrocis punctiferalis* in a thlen niin rannung hnawksak tak a ni a. He pangang hian a zik no lai eiin a hnah te a lo vuai a; lo ro in a kung chu a lo chhe ta mai thin a ni.



Sawhthing zik kertu pangang



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**Sawhthing Chin leh Enkawl Dan**  
(Package of Practices for Cultivation of Ginger)



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## Introduction:

Sawhthing hi thlai pawimawh tak leh lar tak a ni a, a hmanna hi tam tak awm mahse a rim avang hian hman tlanglawn ber a ni. Chhang siam nan te, pickle, sawhthing powder, sweet leh in chi thil dang chi hrang hrang atana hman a ni bawk a ni. India ramah ngat phei chuan Ayurveda kan ngaisangin hemi lam kaihnawihah hian damdawi hrang hrang – hritlang atan te, luakchhuak rehna leh taksa tih chakna tur chi ho siamchhuah nan hman thin a ni.

## Sik leh Sa leh a Chinna Leilung:

Lei thawl lampang, al lutuk lo leh thur lutuk lo (pH 6-7.5) a mamawh a. A chi kui atanga a zung rawn chawr thlengin ruahui pangai tak leh tha taka a dawn a ngai a, amaherawhchu sengkhawm hma thla khat velah chuan tui a mamawh tawh lem lo a ni. Tui tling ngaitheilo chi thlai a ni a, natna a kai loh nan tui luanchhuahna tha tak siam a pawimawh hle a ni. Sawhthing linna hmun tur chu terrace emaw lei rih pawn (raised bed) ni thei se duhthusam a ni.

## Variety:

Sawhthing hi chi (variety) hrang hrang a awm a, India ram hmun hrang hrangah a chi a zirin chin a ni. Hmarchhak state-ah chuan Nadia, Bhaise, Gorubathane etc. te hi chin a ni a, Mizoramah chuan Thinglaidum, Thingria, Thingpui te hi kan chin nasat ber an ni.



Thinglaidum



Thingria



Nadia

## Sawhthing Lin leh a Chi Sawngbawl:

March – April hian an ling tlangpui a, Mizoramah chuan ruahui kan dawn tam avangin a chinna hmun chu a sang ngei ngei tur a ni. A bi inkar hlat zawng hi thangduang chi Bhaise tan (40 x 60cm), thang pangai chi Nadia, Thinglaidum, Thingria, etc te tan (25 x 40cm) a tawk a ni. Sawhthing chi hrisel leh him tha chauh lin tur a ni a, lin hmain *Trichodrma harzianum* culture @5g/kg seed a sawngbawl tur a ni. *Trichoderm* chu a chi sawngbawl nana hman hmain FYM nena 1:25 a chawhpawl a, tui a phuh thet thet a ni hnih dah phawt tur a ni a. Chumi hnuah sawhthing chi nen chuan chawhpawl tur a ni.

## Leitha Pek:

A tirah FYM @ 25–30 tonnes + neem cake @ 2t + biofertilizer (*Azospirillum* + PSB) @ 5-6 kg/ha hman tur a ni a. Thla hniih hnuah vermicompost @ 5t/ha pek leh bawk tur a ni.

## Tui Pek, Hlo Thlawh leh Enkawl Zel Dan:

Mizoramah chuan ruahui kan dawn that avangin tui a hrana pek a ngai lo a. Sawhthing lin zawah buhpawl/hnim a khuh (mulch) hian hnim to tur a ven bakah ruah in lei chunglang hang tha a tlen fai tur a veng a, thlai tiak hlim tan a tha bawk a ni. Sawhthing hmun thlawh fai pahin a bul hi rih vur zel tur a ni.

## Thlai Chin Pawlh (Intercropping):

Sawhthing hi lei tha ei nasa thlai a nih avangin be lam chi (bekang/bean, etc.) nena chin pawlh a tha a, vaimim te nen pawh a chin pawlh theih bawk a ni. Hetia thlai dang nena kan chin chuan thar hlawk turin lei tha te pawh pek hnem deuh tur a ni.

## A Thar Seng leh Vawnthat:

Sawhthing hi chin atanga thla 8-9 velah a seng theih a, a hniah a en a ro vek hnuah chawh tur a ni. A tlangpuiin tin hniih leh a chanve hmunah ton 15-40 a thar theih a. Sawhthing chawh hnuah sil fai a tih ro in a dah that theih bawk a ni.

## Natna, Rannung Ven leh Enkawl Dan:

### Tâm Hri (Soft Rot/Rhizome Rot):

He natna hi sawhthing natna buaipui awm ber niin lei atanga natna inkaichhawn theih chi a ni a, *Pythium aphanidarmatum* in a thlen a ni. He natna hi hmun hnawngah leh lumah a tam zual bik em em a ni.

### Natna lanchhuah dan:

A kuang tuamtah ah lo langchhuakin a kung chu a rawn tawih zel a, a bul a rawn tawih thleng ta thin a ni. A natna kaina lai chu dup deuhin a lo tui a, sawhthing chu a ti tawih a, a chhe ta mai thin a ni.



Tâm hri (Soft rot/Rhizome rot)

### Enkawl dan:

- A chi kan lak reng rengin a hmelhem lo leh natna kai lo kan thlang tur a ni.
- A chi chu *Trichoderma harzianum* @ 5g/kg in kan sawngbawl tur a ni.