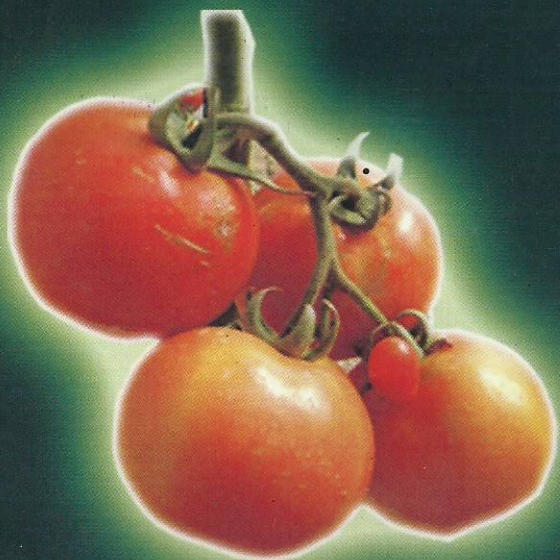


Hlawk zawka Tomato chin dan



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HLAWK ZAWKA TOMATO CHIN DAN

Tomato hi ram puma thlai hralh that ber pawl a nih bakah kum tuana hralhna awm reng a ni a. A hringa ei mai bakah hian khawl leh thil danga sawngbawl (process) in ei tur chi hrang hrang a siam theih a. Himalaya tlang dung leh a chheh velah te tomato hi an ching nasain thlai pawimawh tak a ni a, a chhan chu tlang rama a thar vanglai hi phai zawla an thar loh laia nih avangin, tlang rama cheng tomato chingtute tan a tha in a hlawk bik em em a ni.

A chi thate (Approved Variety) :

1. *V.L Tomato - 1* : He tomato chi hi tlang rama chin atan a tha hle a. A kung hi a laihawl (medium size) niin a zam darh chi a ni a. A rah hi a bial, a len zawng pawh a laihawl (medium size), a hmin chu a senduk a ni. He tomato that bikna chu a rah a hmin hnuah a keh ngai lo a, a hriselin a nget lakah a him bawk a ni. Ram hectare khat zelah 200 - 250qtl thleng a thar theih a ni.

2. *V.L Tomato - 3* : He tomato Kung hi a te chi a ni a. A rah hi a bial, a rah laihawl (medium size) niin, a hmin hnuah a rawng a sen mawi hle a ni. A rah hi a rawng a mawi bakah a lang thar (fresh) avangin ei tur dang siam nan (proceed) atan a tha bik a. Ram hectare

khat zelah Organic farming hmangin 140 - 180qtl a thar theih a, Chemical farming hmang chuan 300 - 350qtl thleng a thar theih a ni.

3. V.L Tomato - 4 : He tomato hi thang duang tak a ni a, a kung san zawng pawh 80 - 115 cm lai a ni a. A rah hi a bial, a rah laihawl (medium size) a ni a. A rah hmin rawng chu a sen mit la tak mai leh lang thar fresh chi a nih avangin ei tur dang siam nan pawh a tha hle a ni. Nursery-a awlsam taka chin theih a nihna chu a that bikna a ni. Ram hectare khat zelah Nursery farming hmangin 500 - 600qtl thleng a thar theih a, Organic farming hmangin 150 - 160qtl a thar theih a ni.

4. Pusa Rubi : He tomato chi hi Indian Farmer Investigation Institute, New Delhi-a siam chhuah a ni a. A kung chu a sang zawnga thang chi, a rah chu a bial pheh, a rah laihawl niin a hmin hnuah rawng sen mawi taka rah thin a ni. Ram hectare khat zelah 250-300qtl a thar thei a ni.

Heng bakah hian a chi tha thlahpawlh (Hybrid-cross) eg. Avinash - 2, Manisha te leh Naveen 2000 te chu tlang rama chin uar dang te an ni.

A chin/kui hun :

Tlang ram chuan hnuai leh a laili laiah (lower and middle) te chuan January - February bakah July

thlaah te a kui theih a. Tlang sang (higher hilly) hmunah te chuan March - May thla thleng nursery-ah kui theih a ni.

A chi mamawh zat :

Tomato chi pangngai chu 400-500gm leh Hybrid chi chu 200-300gm hi ram hectare khat zel atan a tawk a. A chi kui hmamain damdawi Carbendazim/Thiram @ 2.5gm a chi chu kg khat zel nen a sawngbawl tur a ni. Hei hian a chi atanga natna kaichhawng tur a veng dawn a ni.

A chi kui :

A hmasain a chi hi Nursery-ah kui thiah a, phun sawn leh tur a ni. A kuina tur nursery chu 1 m (3ft) a zau, 15 cm a sang leh a remchan dan anga seiin siam phawt tur a ni. Chutah chuan bawngkek leitha leh lei tha taka chawhpawlh phawt a, chutah chuan natna hrik thah nan thiram 5-10 gm chu metre khat bial zelah telh leh tur a ni. Bed chu 5-7 cm a inhlath-in 1-2 cm vela thuk-ah a chi chu kui a, lei pante a chhilih leh tur a ni. Chumi hnu chuan hnim ro/buhpawl a khuh a, nasa vak lova tuia phuh tur a ni. Ruah leh vur laka ven nan leh a to that theih nan sarang-in (polythene) khuh leh tur a ni. Nursery chu carbendazim / mancozeb in thlai an hrisel theih nan leh natna laka an fihlim theih nan vawi hnih khat tal kah tur a ni.

A Phun :

A chung a variety te khi 50x50cm zela inhlal in phun tur a ni. Tlai lama phun a tha a. Phun zawhah tui pek nghal tur a ni a. Tin, kar khat hnuah thlai thi-te paihin thlai hriselte phun leh tur a ni.

Lei tha pek :

Tomato hrisel tha hlawk taka thar tur chuan hectare khat-ah bawngkek lei tha 20 T, 100gm Natrajan, 50gm Phosphorus leh 50 kg Potash pek a tha a. A thlai phun hmian Natrajan chanve, Phosphorus leh Potash a vaiin a chinna hmunah chawhpawlh nghal tur a ni. Natrajan chanve la bangte chu phun atanga thla khat hnuah pek leh tur a ni.

Hnim to tur ven dan :

A hun taka thlawh fai hi hnim to zel tur ven nan a pawimawh em em a. Chin atanga ni 20-25 hnuah thlawhfai tur a ni a. Tin, chin atanga ni 45 chhung chu hnim awm miah lo a siam tur a ni. Hnim hlo pendimethalin 1.0 kg chu tui 800 litre-ah pawlhinh kah tur a ni.

A Seng leh Do That :

A rah a tawih loh nan leh a rah tam theih nan mau hmangin emaw thing emaw hmangin a zar tliak tur leh tla tur ven nan a do tur a ni. Lei atanga 15 cm a hniama hnah chawr chu paihfai vek tur a ni.

A hrik ven dan :

1. **Damping off** : He natna hi nursery-a natna zingah chuan a hlauhawm ber a ni a, he natna hian thlai tiak a ti tlem a, a tiak te chu a lawng a, a tawih a, a thi mai thin.

i) A chi kg khat zel chu Thiram/Captan @ 2.5gm emaw Carbendazim @1.0 gram in sawngbawl tur a ni.

ii) Nursery-ah he natna hri hi a lo lan chuan Thiram/Captan@ 0.25% hmanga kah tur a ni.

2. **Late blight** : He natna hi tlang ramah a hluar hle a, a chang chuan he natna avang hian tomato zawng zawng an thi vek thin a ni. He natna hi boruak a hnawngin a darh chak bik a. He natna atanga thlai him theih nan a tiah tirh atangin Mancozeb @ 0.25% damdawi hmanga kah tur a ni.

3. **Early blight** : Thlai hnah a hrisel loh a, a pawp te a lo awm chuan a natna a rawn lang chhuak tihna a ni a. A venhim dan chu late blight nen a inang a ni.

4. **Buck-eye-rot** : Thlai hnahah te, a kung lian laiah te leh a rah hringah te a uk in a rawn val a, a hnuah a rah chu a tawih zui thin. Boruak hnawngah he natna hi

a darh chak em em a ni. He natna laka thlai a him theih nan chuan Mancozeb @ 2.5gm/lt. leh Ridomil @ 2gm/lt. chawhpawlhini ni 7-8 danah kah tur a ni. Damdawi hmanga a chi sawngbawl hnu kui a nih chuan he natna hi a tlem phah thei a ni.

5. *Tomato mosaic virus* : He natna hi virus natna a ni a, rannung te reuh te te aphids kan tih ang chi khan an pu darh thin. Natna vei tomato te chu a hring leh engin a tial ruan a, a khawrin a chuar thin. Thlai than a thu a, tin a par leh a rah a tla thin a ni. Hetiang ang natna vei tomato a awm chuan a rang thei ang berin a zung chawpa phawi a, phum bo nghal tur a ni, chumi hnu chuan thlai danga a kai darh tur ven nan metasystox @ 1ml/lt. ni 10-15 danah vawi hnih kah tur a ni. Tin, kah atanga ni 150-20 chhung tal ei loh tur a ni.

Eichhetu rannung leh a ven dan :

1. *Fruit borer* : Hei hi tomato ei chhetu rannung zinga langsar ber a ni a. He rannung hian tomato hel chu a ei kua a, a kawrawng chhung hnawh khattu thil nem tak chu a ei thin a. Thei a ei te chu hmuarin a bawm khat a, tichuan a lo tawih thin a ni.

He rannung sei zawng chu 1.5-1.7 cm a ni a, a nu chu rawng uk lam deuh a ni. A thla hmalamah chhunan (dot) dum angin zia a nei a. Tin a thla hnuai lamah

thisen zam dum (Blood vessel) ang hmuh tur a awm thin a. Tomato par kuhmum te leh a rah chungah te a tui thin a ni.

A enkawl dan :

- i) Tomato tlar 16 dan zelah derhken tlar khat siam nise. Hemi atan hian derhken ni 40 a upa leh tomato ni 25 a upa hmun khatah phun ni-se.
- ii) A theih chuan light trap emaw pheromone trap emaw hman ni se.
- iii) Ni 7-10 kar danah rannung chi khat trichogramma 50,000 chu hectare khat zel atan chhuah tur a ni.
- iv) HaNPV 250 LE, kurtai 1kg, teapol 0.1% chu tui 800 litre-ah pawlhin hectre khat zelah ni 10 kar danah tlai lamah vawi thum kah tur a ni.
- v) Chemical control hmangin indoxacarb 14.5 EC @ 0.5 ml/lt emaw deltamethrin 2.8 E.C @ 0.5 ml/lt. in kah tur a ni.

2. Leafeating caterpillar : He thlai tomato eichhetu pangang a ni a, a hnah a ei thin a ni. He rannung hi a puitling chu phengphehlep a ni a. A thla hmalam chu rawng tak niin, a var kir deuhin a tial (wavy white spot) a. A thla hnunglam chu a var a, a tlang a uk thung a ni. A nu puitling chu a hnah hnuailamah a hlawmin a tui thin a ni.

A enkawl dan :

- i) A tui chu vai a, thah zel tur a ni.
- ii) Biological control-ah parasite insect *telenomus remus* chu a tui eitu atan a Ƨangkai hle.
- iii) Endosulfan 35 E.C @ 2 ml/lit., malathion 50 E.C @ 1 ml/lit., deltamethrin 2.8 E.C @ 0.5 ml/lit. in kah Ƨhin tur a ni.

A thar chhuah leh a hralhna

Tualchhung bazar-a thawn tur chuan a rah la hmin Chiang lo deuh lawh a Ƨha ber a. Hmun hla zawka thawn tur a nih chuan a rah a lo hrin hnuin tlema a sen a lo lan Ƨan deuh hnuah lawh nghal tur a ni. Hetianga tih hian a rah keh avanga buaina a pumpelh theih phah Ƨhin a ni. Ram hectare khat zelah 200 - 300 qtl. thleng a thar theih a. A thar Ƨha chu man to taka hralh a nih chuan hectare khatah Rs. 3.5 lakh lai a lei chhuah theih a ni.