

Tomato

Scientific name : *Lycopersicon esculentum*

Hindi : Tamatar

Sik leh sa :

- Khawlum lutuk lo leh vawt lutuk loah a chin theih reng
- Khawlum lam 15^oC -27^oC a mamawh a.
- Khawlum lutuk leh vawt lutukah chuan a tiak tha theilo a, a thang thalo a, a par leh a rah a til duh a, a rah a thawp duh bawk
- Ruahtui tlak nasat naah a thar that thei lo

Leilung mamawh zawng:

- Lei dur tha, mahse tui thli hul hma deuh (sandy loam soil)-ah a tha duh
- Lei thaw deuhah a thar hma a, lei tak deuhah a thar tam thung
- Lei thurah a tha theilo;pH 6 – 7 a mamawh
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Leitha (fertilizer) mamawh zat : Leitha mamawh zat hi lei that leh that loh dan a zirin a danglam hret thei a, chumi mil chuan her rem tur a ni.

Bawng ek lei tha 10 - 20t/ha

- N : P : K : : 120 : 60 : 50
Urea – 236Kg/ha
DAP – 130 Kg/Ha
MOP – 84 Kg/Ha

Boron leh zinc tlakchhamna hi a awm thin avangin Borax@20-25Kg/ha hi lei leh rualin leh hnan tur a ni a, tin 0.22 – 0.40% of Borax chu a rah insiam lain kha bawk tur a ni a, borax hian a a rah pian dante, a len zawngte leh a rawngte a ti tha a ni. Zinc tlakchhamna tireh turin Zinc sulphate @25Kg/ha pek tel tur a ni.

A chi kui tiah dan :-

- A chi hrisel chauh hman tur
- Seed bed, a 12ft(vang) x 4ft (dung) x 6inch a sang a siam tur
- Dip taka lei cheh phut a, bawngkek tin 2 pawlh tur
- Bawngkek pawlh zawhah a theih chuan sarang a khuh a, kar khat chung engtin mah ti lova nisa a pho tur.
- Thlai venna Captan or blitox @ 10gm/3 L tui a leih tur
- A chi, bavistin @2g/kg a chawhpawlh tur
- Tui pek hnuah buhpawl/hnim roin emaw khuh a zingtin tui pek tur
- A tiah veleh buhpawl lak tur

- Kar 4-5 hnuah a phunsawn theih
- Phunsawn hma ni 4-5 vel tui pek loh a tha
- A tiak hi 0.1% nuvacron leh 0.2% Dithane-M-45 ah chiah hmasak tur
- Phunsawn kher lovin a hmunah pawh a tuh theih a, chutian a tih chuan tha a heh lova, a thar hma a, a thar tam bawk. Mahse a tam tham a nih loh chuan phunsawn a tha zawk

A chi mamawh zat:

Open pollinated variety	:	400-500g/Ha
Hybrid	:	150-200g/Ha

Mizoram atana a chi tha(Hybrid varieties) :

Pusa Sadabahar, Pusa Ruby, Pusa Early Dwarf, Roma, Arka Saurabh, Arka Vikas

A kar hlat zawng :

60cm x 45cm or 90cm x 30

Flat bed emaw raised bed ah an ching thin a, raised bed hian tui a mamawh tlem a, tin natna leh rannung lakah pawh a him deuh zawk bakah a zam kaina siam a awlsam bawk a ni. Khawl a seng tur emaw, a rah lawh hnuah sawngbawl(process) tur chu a inkar zim deuh zawkin chin tur a ni a; hybrid variety ho chu a inkar hla deuh zawkin an phun thin

Tui mamawh dan :

- tomato hian tui hnawng tawh chauh a mamawh reng a
- tui tling a ngai thei lova
- ruahtui tlak nasat naah a tha thei lova, a chung zar(polyhouse) a ngai thin
- tui tling khawp a pek loh tur

Enkawh zui dan :

- a hmun a hnim tur a nilova.
- A kung bulhnai tak thlawh loh tur, a zung tih chhiat loh
- A zam kanna siam sak tur a kung hnuai lama pengte paih a tha
- A rah nisa lutuk hem tir loh tur
-

A rah seng dan:

A hmanna tur a zirin a seng hun a dang thin

- Thawn chhuah tur leh hmun hla kal tur chu a rah puitling tawh la hrin laiin an thin
- Khaw chhung a hralh tur chu a hmin/hmin tirah an lo thin
- A chi lak tur chu a hmin that hnuah an lo thin

A seng hun :

Phunsawn atanga Ni 70-100 velah a seng theih.

Thar zat :

A panngai :- 250 – 300q/ha

Hybrid :- 500 - 600q/ha

A natna leh rannung enkawl dan:

A natna leh rannung hming	A lanchhuah dan	A enkawl dan
A rah nget (fruit borer)	A nget in a khawihte chu a tawih a, a tla thin.	A rah insiam tan laiin 0.05% carbaryl or 0.05 % malathion in ni 7-10 kar dana kah tur.
White fly	A puitling chuan a hnah atangin a tuihnang a hip a, leave curl virus atehdarh pah bawk thin	0.03% dimethoate in kah tur (1 ml/ l of water).
Bacterial wilt	Chhunah ahnah thenkhat emaw a pumpuiin a lo vuai hnup thin a, a changchuan alo harh leh a, ahnuah athi nge nge thin	Neem oil @ 10ml/l of water a kah tur.
Late Blight	A hnahte chu a lo ro in a tawih duak duak thin a, arahte chu a lo sakin, adumin kap in a tawih thin.	0.25% carbendazim in ni 7-10 danah kah thin tur ani.



Manilemma



Avinash-2



Mega 2



Arka



Manithoibi



7711



Mega1



7704

Harvesting and Post Harvest Management:

Tomato hi a hmin dan in ang lovin a hrang hrangin an seng thin a, a puitling tawh la hel si, a sen deuh teih teih tawh hnuah te, a sen var hnuah te leh hmin tha tak a nih hnuah te a ni. A seng hun hi a hman dan tur a zirin a danglam thei a, hmun hla deuh a hralh tur chu a puitling tawh mahse a la hrin lai siin an seng thin. Bazar hnai deuhah chuan a sen tan tir leh a hmin tha tawh tak an seng thin. A rah lawh hnu hian 13°C ah ti daih phawt tur a ni a, hetia tih hian tomato hi a tlo duh a ni. Tomato h chi hrang hrang a thliar hran thin a ni a, A, B leh C grade-ah te thliar hran thin a ni.

Tomato hi hectare khatah 250q vel a thar thei a ni. Mahse a chi tha leh a zamna siam that chuan hei ai tam hi a thar theih ani.

Khawlum lutuk leh boruak hnawng lutuk-ah hian tomato a chhe hma a, a dah rei theih loh thin. Carbordioxide tam leh Oxygen a tlem hian a dah that rei theih deuh thin a ni.

Table: Cost of cultivation of Tomato

Sl. No.	Agronomic Practices	Amount/Number	Rate/Unit (Rs.)	Total Cost (Rs.)
1	Land Preparation	4 ploughings	1500/ha	6000
2	FYM	25 tonnes	600/t	15000
	Amount of FYM	15 mandays	130/manday	1950
	Scattering of FYM & initial dose of fertilizer	Once	1500/ha	1500
	Mixing of FYM with Cultivator			
3	Nursery Preparation Cost of seed	400grams	250/10 g.	10000
	Nursery sowing & management	6 mandays	130/manday	780
4	Transplanting	40 mandays	130/manday	5200
5	Staking			4000
5	Irrigation			5000
6	Intercultural operations	50 mandays	130/mandays	6500
7	Cost of Fertilizers			
	Urea	195kg	Rs4.83/kg	942.00
	DAP	174kg	Rs 9.35/kg	1627.00
	MOP	84kg	Rs4.26/kg	358.00
8	Plant Protection Measures	-	-	6000.00
9	Cost of Harvesting & Marketing	25 mandays	130/mandays	3250.00
	Harvesting	6 mandays	130/mandays	780.00
	Post harvest Operations	Baskets, crates, gunny bags etc.	130/mandays	2000.00
	Packing material	250q.	25/q.	7500.00
10	Transportation charges			5000.00
11	Miscellaneous			5000.00
12	Total			88387.00

13	Interest on working capital @ 12% p.a. for 6 months			5303.00
14	Total cost of Cultivation			93690.00
15	Gross Returns (Rs./ha.)	250q	800/q	200000.00
16	Net Returns (Rs./ha.)			106310.00
17	Benefit-Cost Ratio			1.13