

Investment Potential of Nature Silk



a. What in silk butterfly

1. Biological of Silk Butterfly

Before studying about silk caterpillar farm technique, we presumably, need to know in advance about silk butterfly characters. Silk caterpillar actually in one of phase from life cycles network from nonspecific of butterfly insect. Growth process of tightly itself caterpillar of its bearing with keeping managery, it is important for we know.

Butterfly in animal systematic way is including insect class (hexapod)in general has marking as follows part of its body consisted of head, chest, and aft body; has six feet. Other specific from nation of Distinguishable insect become 10 factions (Order). For example faction of butterfly (Lepidoptera) or often is called as winged insect of scale because having four wings decorated by scale which its color respects. Other characteristic is that this insect has orifice to suck.

Butterfly in life its experiencing perfect metamorphosis process with different form between one phases with other phase. The alterations is inter alia from egg turns into larva, then becomes chrysalis, and finally become imago (form of adult), in the form of butterfly. Caterpillar which we look after is none other forms in the form of growing so forms chrysalis.

2. Excellent Silk Caterpillar Race

In silk Caterpillar World is recognized four pre-eminent types or silk butterfly race having produce of a real cocoon height and produce silky with good quality. Fourth of silky butterfly race is Chinese race, Japan race, Europe Race and Tropic Race in Indonesia has many developed is Chinese race protactinium and Japan Race and result of cross from both the butterfly races. But, lately result of cross of Japan Race with Chinese Race exactly which many developed Chinese race butterfly and Japan race besides having excellence also has some weakness. However with traversing both the races, its weakness is and deductible exceeded it is more uppermost.

For its product is relative more long if compared to Chinese race. Feebler, so that still be susceptible to disease raid. Form of steady a thick, like peanut. Thick steady layer, causing produce of very cocoon height, higher compared to Chinese race product. While Chinese race butterfly has inter alia marking. Its more short quickly production age.

Form of circular cocoon, this cocoon layer, causing its production is lower compared to its production with Japan Race its (the staying power to better disease.

If you silk caterpillar wish to, you are not necessarily do intersection self. Because now in center nursery bed of silk caterpillar in Candiro, Middle java has made available eggs butterfly double cross and we directly can buy it the egg have been tidy in box in the form of small box from kassa which is portable to many places. Every box contains egg 20000-22000 fruits.

Place of incubation in the form of small box arranged in layers by black cloth also earns in message in center the nursery bed at arrival at receiving location, butterfly egg may directly directly be incubated by removing from egg box to incubation box During two –day in incubation box, the butterfly egg will hatch to incubated egg incubation box must be placed in dark place.

b. Keeping of Silk Caterpillar

Before keeping of caterpillar is done, all supporting facilities and material required must be drawn up beforehand carefully. Extempore good, kindness business silk caterpillar will experience fails. Supporting Facilities and supply which must be drawing up covers feed, room, and supplies of production.

- Feed supply

Feed is important supporting facilities in effort for any livestock. for silk caterpillar requires specific feeding stuff and not many commercialized in any place in consequence, feed source must be available surely and its well guaranteed continuity

Feed production (leaf murbei) available and number of caterpillars which will be looked after must be accommodated. Before caterpillar starts looked after, crop murbei has must ready to be harvested its (the leaf, minimum has age around one years. Keeping of one silk caterpillar Boxes(+/20000tail)requires leaf murbei around 1000kgs for every production time line.

- Settlement of Room

Keeping of silkworm can be done on a small scale in household scale and or on a large scale for household scale, place of keeping can be done within doors (at special room) but at level effort for larger ones shall be looked after in special room, but it doesn't matter the caterpillar is looked after, keeping shell shall fulfill clauses, especially concerning temperature, light, dampness, and ventilation (exchanges) air.

Material and Equipment

Some supplies and material required in looking after silkworm for example is : Hatch box from simple wood, Sasag (caterpillar keeping box) from wood, Stand for sasag, Leaf crate, Pail and plastic bowl, Shaping plastic for pallet, Cloth saving leaf, Paraffin paper paper for pallet, Broom, brush , and hand mop, Cavort chaff, Sprayer to sprays cavort, Thermometer, Bamboo clipper, Place of perfecting(from wood, plastic, or bamboo).

Things required to is paid attention

In its relation with silkworm keeping, there are some thing that need to be paid attention, that is :

1. Room and all equipment must be cleaned, dried and sprayed with disinfectant (formalin/caporit)before keeping of silkworm is started better, every keeping phase completed all equipment must be cleaned and cleared of ex-food, cocoon plume(floss)or dirt, then is sprayed with disinfectant ;
2. Equipment that is not applied must kept in order room and compiled to be natty ;
3. Keeping room that has limited people in

4. When going to enter keeping room, shoe or sandal must be released and changed with sandal specially is available in room and must step on doormat which has been wetted with condensation of formalin or creolin 5% ;
5. Before doing work in keeping room, hand must be died in condensation of disinfectant (creolin/formalin/juphenol)then is washed with clean water and dried with dust-cloth which has made available;
6. The workers (caterpillar preserver)must synchronized of overall which is permanent and always kept in each activity room ;
7. The workers or guest may not eat, drink, or smoking in keeping space ;
8. place of exile or combustion of garbage, good in form of remains –pigswill or dirt from other keeping space nor activity, must be labored as possible from keeping space.

c. Safe Silk Batik of Sahuri

Silky batik in Garut developed by (alm) H. Safe Sanusi, he starts the business since Dutch epoch until now. At the moment its company taking place continued by his son by building Nature silk of Aman Sahuri Garut Silk Batik becomes silk exponent in fatherland so gets Upakarti Certificate Garut Silk becomes pre-eminent commodity because its good quality. Garut Silk is developed with traditional pattern and woven in manual trough ATBM (Weaver is not Machine) Garut Silk many utilized by the national designers especially for smooth batik becoming pride of Indonesia public.

This silk batik also besides applied by inside the country also in export to some states that is Japan, Malaysia, USA etc, with cavacity exsport month is reaching 4000-5000meter/year. Nature silk” safe of Sahuri crafters moved in the crafting field of nature silk started since 1961 which is first done is effort for nursery bed of caterpillar 25 vesting tails from people Japan.

After effort for nursery bed and keeping of nature silkworm experience progress so reaching tens of thousand tails and can yield cocoon hence to process to become simple yarn, made equipment of yarn spinning so can be processed to become cloth thought ATBM (Weaver is Not Machine)and this equipment can yield gilt edged other product. It is important to know effort on nature silk area of all sides can involve from government, public, and entrepreneur Indonesia nature silk especially in Garut Regency hardly suited for developed and can become Indonesia pledge commodity. In commercial farming, more than anything else orienting at agribusiness.

Starting business in advance we must analyses farm at the same time sees market prospect from commodity which we will labor increasingly profit effort for the commodity of course would increasingly is enthused but result of analysis effort and just market prospect still have not have not yet enough as component of consideration to labor a commodity other element of which must be considered between it is availability of supporting facilities for produce and agro ecosystem.

Not all commodity types and profit to be labored at condition of certain area starting business in advance we must analyze farm at the same time sees market prospect from commodity which we will labor increasingly profit effort for the commodity of course would increasingly is enthused. But, result of analysis effort and just market prospect still have not yet enough as component of consideration to labor a commodity other element of which must be considered between it is availability of supporting facilities for produce and agro ecosystem, because not all compatible commodity types and profit to be labored at condition of certain area.

Profile of Nature Silk Agribusiness

Project name	Nature silk
Capacity	1 Ha
Location	Tarogong and South Garut area
Areas	1 Ha (Sample)
Areas status	Public land
Fixed capital	RP 8.100.000
Circulating capital	<u>RP 3.039.000</u>
Total	RP 11.139.000
Permanent worker	1 people
Part time worker	<u>14 people</u>
Total	15 people
Study support	
Study of investment opportunity	Available
Project feasibility pre-study	Available
Project feasibility study (FS)	Available
Financial profitability	
1. BEP	2,5YS(2YS6bulan)
2. Payback Period	RP 4.902000 (estimation rr :12% in time of
3. NPV	5 year
4. IRR	28,4%
5. ROI	31,2%