



Harit Sanjivani Crop Schedule

Crop: Black Pepper

Nursery Sowing Time: March to April, Transplanting time: June to July, Nursery duration: 90 days, Crop period: Bailey's vegetative growth 3 years, after 3 years of production start, ready for harvesting in 270 to 300 days from flowering

How to apply Harit Sanjivani Products for Nursery

Per nursery plant mix in soil **Garden gold** 25 gm + **Soil Health Special** 5 gm.

In 20 to 25 days from nursery sowing or plant sowing spray **Rapid** 2 ml + **Defend** 2 gm + **Fruit special** 1 gm + **Spray Max-85** 1 ml (per liter of water). After this, spray the same every 15 days as per need.

After transplanting drenching **Defend** 2 gm + Metalexyle 35% 1.5 gm + **Spray Max-85** 1 ml per liter of water.

Products of Harit Sanjivani	Time & Methods of Application
Harit Sanjivani Stage 1 250 gm + Soil Health Special 500 gm (Per acre)	While transplanting or after transplanting up to 30 days apply in soil by mixing with any chemical fertilizer or organic manure or in 40 to 50 kg dry soil or through drip irrigation or drenching.
Harit Sanjivani Stage 2 + Spray Max-85 1ml per liter of water Rapid Defend	Spraying should be done in 15 to 30 days after transplanting. (Vegetative growth stage of plants) Rapid 2 ml per liter of water for sucking pest Defend 2 gm per liter of water to prevent fungal diseases
Harit Sanjivani Stage 3 + Spray Max-85 1ml per liter of water Rapid Defend	Spraying should be done in 30 to 45 days after transplanting. (Vegetative growth stage of plants) Rapid 2 ml per liter of water for sucking pest Defend 2 gm per liter of water to prevent fungal diseases
Harit Sanjivani Stage 4 + Spray Max-85 1ml per liter of water Rapid	Spraying should be done in 45 to 60 days after transplanting. (Vegetative growth stage of plants) Rapid 2 ml per liter of water for sucking pest



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Defend	Defend 2 gm per liter of water to prevent fungal diseases
Harit Sanjivani Fruit Special 1 to 2 gm + Spray Max-85 1ml per liter of water	After spraying Harit Sanjivani Stage 4, spray every 30 days interval in the stage of crop growth.
Rapid	Rapid 2 ml per liter of water for sucking pest
Defend	Defend 2 gm per liter of water to prevent fungal diseases
Harit Sanjivani Soil Health Special 500 gm (Per acre)	In the stage of crop growth every 3 to 4 months intervals apply in soil by mixing with any chemical fertilizer or organic manure or in 40 to 50 kg dry soil or through drip irrigation or drenching.
Harit Sanjivani Fruit Special 1 gm + Spray Max-85 1 ml per liter of water	Spraying should be done in initiation flowers (Flowering stage)
Rapid	Rapid 2 ml per liter of water for sucking pest
Defend	Defend 2 gm per liter of water to prevent fungal diseases
Harit Sanjivani Soil Health Special 500 gm (Per acre)	In the stage of flowering apply in soil by mixing with any chemical fertilizer or organic manure or in 40 to 50 kg dry soil or through drip irrigation or drenching.
Harit Sanjivani Fruit Special 2gm + Spray Max-85 1ml per liter of water	Spraying should be done at the time of transformation flowers into Fruits. (Fruit setting stage)
Rapid	Rapid 2 ml per liter of water for sucking pest
Defend	Defend 2 gm per liter of water to prevent fungal diseases
After this spraying, in the growth stage of the fruits, spray every 20 to 25 days intervals with Fruit Special 2 gm + spray max-85 1 ml per liter of water. It can be sprayed by mixing Rapid 2 ml and Defend 2 gm per liter of water as per the requirements.	
Harit Sanjivani Soil Health Special 500 gm (Per acre)	In the growth stage of fruits, every 3 to 4 month interval apply in soil by mixing with any chemical fertilizer or organic manure or in 40 to 50 kg dry soil and by drip irrigation or drenching.
Spray Max-85 can give 500 ml per acre by drip irrigation or drenching.	



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Time and Dose of Nutrients

Stage	Dung compost / compost manure (kg) (per belly)	Lime powder (gm per belly)	Ammonium sulphate (gm per belly)	Single Super Phosphate (gm per belly)	Murate of Potash (gm per belly)
At the time of trance planting	10	500	500	1000	100
1 year old belly	10	500	250	500	50
6 months after			250	500	50
2 year old belly	10	500	250	500	50
6 months after			250	500	50
3 year old belly	10	500	250	500	50
6 months after			250	500	50
Stage	Dung compost / compost manure (kg) (per belly)	Lime powder (gm per belly)	Nitrogen (gm per belly)	Phosphorus (gm per belly)	Potash (gm per belly)
Before flowering	10	500	100	40	140

Micronutrients: - (Volume per plant)

1. Mix 25 gm of micronutrients with cow dung or compost manure.
2. For root knot nematodes, use Neem powder in an amount of 50 gm.



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3. Organic fertilizers like Trichoderma, Pseudomonas, Phosphorus soluble bacteria, Azotobacter are mixed with 25 gm of dung or compost manure.

Pepper diseases and treatment	Pepper diseases and treatment
<p>Fungus: 1) Anthracnose</p>  <p>Treatment : Spraying (volume per liter) Defend 2 gm + Metalaxyle (+) Mancozeb 2 gm + Spray Max-85 1 ml</p>	<p>2) Slow wilt</p>  <p>Treatment : Spraying (volume per liter) Defend 2 gm + Metalaxyle 35% 1 gm + Spray Max-85 1 ml Drenching: (volume per liter) Copper oxychloride 3 gm + Valida mycine 2 ml + Spray Max-85 1 ml</p>
<p>3) Foot rot / Root rot / Phytophthora</p>  <p>Treatment : Spraying (volume per liter) Defend 2 gm + metalaxyle (+) mancozeb 2 gm + Spray Max-85 - 1 ml Drenching (volume per liter) Copper oxychloride 3 gm + Valida mycine 2 ml + Spray Max-85 1 ml</p>	
<p>Viral Infections: Viral infection occurring in different crops is mainly due to sucking pest or because of the lack of nutrients. Therefore, pay special attention to the amount of sucking pest in the crops and the amount of nutrients in the leaves. If any type of virus appears on the plants in the plot, immediately destroy the infected plants.</p>	
<p>Viral Infections: 1) CMW (Cucumber mosaic virus)</p>  <p>Treatment : Spraying (volume per liter) Rapid 2 ml + Acephate 1.5 gm + Defend 2 gm + Spray Max-85 - 1 ml After 2 days of this spraying take 2nd spray Fruit Special 2 gm + 13:40:13 - 5 gm + Spray Max-85 - 1 ml</p>	<p>2) Stunt virus</p> 

Sucking pest:



Thrips



Lace bug



Aphids



Red mites



Leaf hopper

Treatment : (volume per liter): **Rapid 2 ml + Spray Max-85 1 ml**

Mealybug: Treatment : (Volume per liter)

Rapid 1.5 ml + Clothianidine (Dantotsu) 0.4 gm + Spray Max-85 1 ml



Pest:

Polu beetle, Shoot borer

Insecticide:(Volume per liter of water)

Emamectin 1 gm + dichlorvos 1 ml + **Spray Max-85 1 ml**

Barazide 3 ml + Dichlorvos 1 ml + **Spray Max-85 1 ml**

Root knot nematode: Treatment : (volume per acre)

Trichoderma 1 kg + paecilomyces 1 kg + black jaggery 2 kg (mix all three in 10 liters of clean water and keep in a plastic bucket or plastic vessel for a day)

On the 2nd day, mix Soil Health Special 500 gm in 200 liters of water and mix the top 10 liters of draining in it, and drenching in the roots of plants or through drip irrigation.



Instructions :

1) **Harit Sanjivani Stage 2/3/4, Harit Sanjivani Fruit Special, Defend** can be mixed with any pesticides, insecticides, fungicides. Do not spray with only alkaline such as Copper, Sulphour, Bordeaux mixture.

2) In every spraying use **Spray Max-85** in the ratio of 1 ml per liter.

(For Black pepper schedule given by field trials, farmers experience and Agricultural universities trials and the schedule can be change according to soil type and environment)