



सत्यमेव जयते



SUCCESS STORY
OF
SOLAR POWERED FENCING SYSTEM
UNDER
RASHTRIYA KRISHI VIKAS YOJANA 2020 – 21



TAMIL NADU WATERSHED DEVELOPMENT AGENCY
CHENNAI - 32



SOLAR POWERED FENCING SYSTEM

Need:

- ❖ Due to the constant threat to crops raised in fields adjoining forest area from animals and poachers, there has been demand from farmers for an effective and sustainable fencing system.

Solution:

- ❖ A solar powered fence was thought of as a relatively sustainable and viable option. The scheme to provide assistance for Solar Powered Fencing System was introduced on a pilot basis in 2020-21 at an outlay of Rs.3 crore. Rs1.5 crore has so far been released.
- ❖ A Solar fence is a barrier that uses high voltage and short impulse electric shocks to prevent animals and humans from crossing a restricted boundary.
- ❖ A solar fence is basically an electric fence powered by solar panels.

Components :

- ❖ A solar powered fencing unit consists of an Energizer, Solar Panel, Battery, Fence wires, Insulators, Intermediate and Corner Posts, Fence alarm etc.

Cost:

| Sl. No. | No. of Fence Lines | Normal Type (Rs. per metre) | Normal + Hanging type (Rs. per metre) |
|---------|--------------------|-----------------------------|---------------------------------------|
| 1 | 5 | 250 | 275 |
| 2 | 7 | 350 | 385 |
| 3 | 10 | 450 | 495 |

Assistance:

50% subject to a maximum of 2 ha upto 566 m length of fencing.

SUCCESS STORY OF SOLAR POWERED FENCING SYSTEM UNDER NATIONAL AGRICULTURE DEVELOPMENT PROGRAMME 2020 – 21 Salem District of Tamil Nadu

| | | | |
|-----------|--|----------|---|
| 1 | Name of Farmer | : | 1. Thiru.Prabu, S/o Muthusamy 2. Tmt.Kavitha, W/o Prabu, 1/19,Karupayee kadu,Chithiraipatty Pudur, Village - Lakkampatty, Taluk – Mettur, District - Salem |
| 2 | System Commissioned on | : | 11.01.2021 |
| 3 | Type and Number of lines | : | Normal Type, 10 lines |
| 4 | Area covered in hectares | : | 3.065 Ha |
| 5 | Crop raised | : | Pulses |
| 6 | Total cost of unit in Rs. | : | Rs.2,69,048/- |
| 7 | Farmer's Contribution in Rs. | : | Rs.1,70,281/- |
| 8 | Total Subsidy in Rs. | : | Rs.98,767/- |
| 9 | Problem faced and loss incurred before installation of Solar powered fencing unit | : | Animals like Wild boar were a major threat to the crops grown by the farmers. The animals damaged the crops causing physical and financial loss to the farmer. |
| 10 | Benefit to farmer after installation of Solar powered fencing unit | : | Animal like Wild boar entering into the farmer's field is prevented and thereby the crops are not damaged which in turn gives substantial financial gain to the farmer. |

Fig. Fixed Type Solar Fencing system installed in the farmer's field at Lakkampatty in Salem District of Tamil Nadu



SUCCESS STORY OF SOLAR POWERED FENCING SYSTEM UNDER NATIONAL AGRICULTURE DEVELOPMENT PROGRAMME 2020 – 21

Tiruppur District of Tamil Nadu

| | | |
|-----------|--|--|
| 1 | Name of Farmer | : Tmt. Baby Sudha, Village : Vallakundapuram, District : Tiruppur |
| 2 | System Commissioned on | : 14.12.2020 |
| 3 | Type and Number of lines | : Normal Type, 7 lines |
| 4 | Area covered in hectares | : 1.58 Ha |
| 5 | Crop raised | : Mango and Guava |
| 6 | Total cost of unit in Rs. | : Rs.1,88,983/- |
| 7 | Farmer's Contribution in Rs. | : Rs.1,13,817/- |
| 8 | Total Subsidy in Rs. | : Rs.75,167/- |
| 9 | Problem faced and loss incurred before installation of Solar powered fencing unit | : Wild boar was the major problem to the farmer since the animal damaged the fruits that are ready to harvest causing huge financial loss to the farmer. Also the animal damaged the roots of plant and Irrigation lines which affect the plant growth and yield. |
| 10 | Benefit to farmer after installation of Solar powered fencing unit | : After installation of Solar powered fencing unit, entry of wild boars into the farmer's field is prevented and thereby the fruits are harvested on time and the farmer is getting the expected income. |

Fig. Fixed Type Solar Fencing system installed in the farmer's field at Vallakundapuram in Tiruppur District of Tamil Nadu



SUCCESS STORY OF SOLAR POWERED FENCING SYSTEM UNDER NATIONAL AGRICULTURE DEVELOPMENT PROGRAMME 2020 – 21 Tiruppur District of Tamil Nadu

| | | | |
|-----------|--|----------|--|
| 1 | Name of Farmer | : | Thiru.Vikram Prabhu, Village: Udumalapet, District : Tiruppur |
| 2 | System Commissioned on | : | 04.12.2020 |
| 3 | Type and Number of lines | : | Normal Type, 7 lines |
| 4 | Area covered in hectares | : | 1.28 Ha |
| 5 | Crop raised | : | Mango |
| 6 | Total cost of unit in Rs. | : | Rs.1,82,388/- |
| 7 | Farmer's Contribution in Rs. | : | Rs.1,14,215/- |
| 8 | Total Subsidy in Rs. | : | Rs.65,173/- |
| 9 | Problem faced and loss incurred before installation of Solar powered fencing unit | : | Wild boar was the major problem to the farmer since the animal damages the fruits ready to harvest causing huge financial loss to the farmer. |
| 10 | Benefit to farmer after installation of Solar powered fencing unit | : | When wild boars came to farmer's field they got shock from the Solar fencing system and thus entering of wild boars into the farmer's field is prevented. Hence, the fruits are harvested on time and the farmer is getting the expected income. Also the animals are not injured by solar powered fencing system when compared to conventional type of fencing system. |

Fig. Fixed Type Solar Fencing system installed in the farmer's field at Udumalpet in Tiruppur District of Tamil Nadu



**SUCCESS STORY OF SOLAR POWERED
FENCING SYSTEM UNDER NATIONAL
AGRICULTURE DEVELOPMENT PROGRAMME
2020 – 21 Kanniyakumari
District of Tamil Nadu**

| | | | |
|-----------|--|----------|--|
| 1 | Name of Farmer | : | Thiru.V.Thandesan, S/o Vijaya Duraisamy, Mugilanvilai, Manikattipottal Village : Chiramadam District : Kanyakumari |
| 2 | System Commissioned on | : | 18.12.2020 |
| 3 | Type and Number of lines | : | Normal Type, 10 lines |
| 4 | Area covered in hectares | : | 2.00 Ha |
| 5 | Crop raised | : | Coconut |
| 6 | Total cost of unit in Rs. | : | Rs.2,31,895/- |
| 7 | Farmer's Contribution in Rs. | : | Rs.1,40,083/- |
| 8 | Total Subsidy in Rs. | : | Rs.91,812/- |
| 9 | Problem faced and loss incurred before installation of Solar powered fencing unit | : | The farmer, Thiru.V.Thandesan, is having 2 Ha. In his land he raised Coconut trees and getting their yield for years. But monkeys from nearby hillside destroyed the Coconut trees of the farmer. The yield of the farmer reduced. So the farmer approached Agricultural Engineering Department for getting solution. |
| 10 | Benefit to farmer after installation of Solar powered fencing unit | : | Solar fencing of 565 m has been installed. As the garden of the farmer is in the midst of wetlands and no tall trees are surrounded the garden, the monkeys could not get inside the garden. After installing solar fencing the farmer is happy. |

**Fig. Fixed Type Solar Fencing system installed
in the farmer's field at Chiramadam in
Kanyakumari
District of Tamil Nadu**



**SUCCESS STORY OF SOLAR POWERED
FENCING SYSTEM UNDER NATIONAL
AGRICULTURE DEVELOPMENT PROGRAMME
2020 - 21 Kanniyakumari
District of Tamil Nadu**

| | | |
|-----------|--|--|
| 1 | Name of Farmer | Thiru.T.Sathiya Prasad, S/o Thavasikkan, Asariah Street, : Nagercoil – 1 Village : Thidal District : Kanyakumari |
| 2 | System Commissioned on | : 15.12.2020 |
| 3 | Type and Number of lines | : Hanging Type, 5 lines |
| 4 | Area covered in hectares | : 1.31 Ha |
| 5 | Crop raised | : Rubber and Coconut |
| 6 | Total cost of unit in Rs. | : Rs.1,68,465/- |
| 7 | Farmer's Contribution in Rs. | : Rs. 90,618/- |
| 8 | Total Subsidy in Rs. | : Rs.77,847/- |
| 9 | Problem faced and loss incurred before installation of Solar powered fencing unit | The farmer, Thiru.T.Sathiya Prasad, is having 1.31 Ha land adjacent to Reserve Forest. In his land, he raised Coconut trees and getting their yield for years. But Elephants started to encroach upon his land, they uprooted the coconut trees and devastated all the trees, produce and the entire land. |
| 10 | Benefit to farmer after installation of Solar powered fencing unit | After installation of Solar powered fencing unit, when Elephants came to his field they got the shock from Solar fencing system and make sounds during nights. This has been observed by his night watchman. Before installing this fencing system, no one come to work as watchman in his field because of scare of Elephants. Now the farmer has replanted this land with Rubber seedlings and Banana as inter crop. The farmer is fully satisfied with this fencing system |

Fig. Hanging Type Solar Fencing system installed in the farmer's field at Thidal in Kanyakumari District of Tamil Nadu



Thank You

