

Protected Cultivation Boon for Agriculture

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INTRODUCTION

Protected cultivation is really a boon for agriculture. It is very helpful in increasing the status of the farmer in the society. If a farmer cultivate crop (especially vegetables and some fruits) in open i.e without the protected cultivation than a lot of diseases and insects i.e biotic and abiotic factor affect the crop growth ultimately the yield and hence by this article I am going to explain about how a protected cultivation is helpful to such farmers in increasing the yield with quality and also how the protected cultivation protect the crop from the incidence of pest.

About protected cultivation-

It is a process of growing crops in a controlled environment. This means that the temperature, humidity, light and such other factor can be regulated as per requirement of crop. This helps grower in growing the crops even in offseason. This gives more profit in the form of money. This also helps in improving the quantity with quality of product.

Common types of green house being used in India-

- 1) Plastic greenhouse with natural ventilation
- 2) Greenhouse with fan and pad cooling system
- 3) Solar greenhouse
- 4) Walk-in tunnels
- 5) Plastic low tunnels
- 6) Net house and anti insect cage
- 7) Underground trenches

Current scenario of major countries in utilizing protected cultivation-

| Country | Greenhouse Area(Ha) |
|---------------|---------------------|
| China | 2760000 |
| Korea | 57444 |
| Spain | 52170 |
| Japan | 49049 |
| Turkey | 33515 |
| Italy | 26500 |
| Mexico | 11759 |
| Netherlands | 10370 |
| France | 9620 |
| United states | 8425 |

(source: Kacira, 2011).

[India 25000 h (source-Hickman, 2011)]

In India the protected cultivation is rising day by day. The leading states in the area of protected cultivation are Maharashtra, Karnataka, himachal Pradesh and north eastern states. The major crops grown in the protected cultivation are tomato, capsicum, cucumber, melons, rose, gerbera, carnation and chrysanthemum.

Advantages-

- 1) We can take crop all round year
- 2) Helpful in protecting crop from the adverse effect of climate
- 3) Helpful in increasing quantity
- 4) Also helpful in improving quality
- 5) Multiple cropping can be taken
- 6) Helpful in earn hard cash by producing off season crop
- 7) This can also help in taking crop which is not possible without protected cultivation in a definite area
- 8) Help in quick production of seedlings of different crops
- 9) Protect the crop from different pests
- 10) Management of crop become easy because of this

11) Maintenance of stock plants

12) Helps in controlling crop ecology according to requirement

CONCLUSION

From above we conclude that how much a protected cultivation is important for a farmer. Though it is costly but government had also announced some subsidy to the grower and hence a farmer can utilize this on their field. This will not only give a farmer a good quantity with quality crop but also gives a hard return even in offseason and we all know that the cost of offseason crops are very high hence helpful to farmer. So, we should motivate the farmers to adopt this technology according to their convenience.

REFERENCES

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