

Bio Fertilizers

Dr.P.Sai Rani

**Head of the Department – Finance,
ICBM School of Business Excellence,
Plot No. 2A, Ishwar's Abode, Upperpalli 'X' Roads, Right to Pillar No. 179,
Attapur, Hyderabad, Telangana 500048, India.**

Plants need sixteen elements for growth, out of which they get carbon, hydrogen and oxygen directly from air and water. Nitrogen, phosphorus and potash (NPK) [1] are first elements for growth and developments of the plants. Farmers give first good food by using fertilizer like urea, DAP and mixed fertilizers.

Calcium, magnesium and sulphur are called coming after first or chief good food, their thing needed is small made a comparison of to NPK. For getting more producing, healthy and disease free plant, coming after first or chief and micronutrients like copper, zinc, Iron, boron, manganese, and so on are also necessary [2].

Plants get these coming after first or chief and micronutrients from the land. where-ever the land is deficient in the coming after first or chief and micronutrients necessary additions have to be made.

Another important factor for plant growth is earth being healthy. The condition of land should be producing to making the good food ready (to be used) to the plant. One of the main requirements of healthy land is necessary part of a system be important in the land that gives support to microbiological activity giving the land that much, richer & more healthy. It keeps from taking place loss of good food through leaching or denitrification and keeps from taking place the years produce from the deadly, full of poison damage of more than enough ammonia. Use of farm- place [3] animal waste as source of necessary part of a system material or substance and some good food is well experienced. Research and development over the years has resulted in a number tending to new materials and methods to increase land being healthy and plant growth.

Organic fertilizers, bio fertilizers, plant growth short-stretch body help and so on are the new products being used for getting increased gives in and safe-keeping land being healthy.

Controlled give out fertilizers (chiefly for nitrogen) have been have undergone growth to make seem unimportant waste. getting of food to good food during watering system (chiefly come drop by drop watering system) [4] and foliar sprays has come up to make ready quick move putting right of things short of, without.



Cite this article as: Dosapaty Vasu, "Challenges and Issues in Digitalization of Libraries", International Journal of Research in Management Studies, Volume 3, Issue 11, 2018, Page 1-3.

Able to use of different materials, application expert ways of art and so on, land special and the years produce special ways of living for acting as food application has resulted in many special place areas for make and marketing of plant good food.

Statement Number of small/medium units has been put up to make bio fertilizers, micronutrients and other products. giving thought to as the greatly sized and growing market there is enough range of observation for few more units [5].

Product mix

- Controlled free, let go urea 8 for plant growing and other special place areas 6000 tons per year.
- Biofertilizers has among its parts of nitrogen fixing agents, phosphate solubilizing agents and rhizobium societies development -- 600 tons per year.
- High value substances mixed in for necessary part of a system fertilizers like humic acid, protein hydrolysates -- 3000 tons per year.
- Coming after first or chief good food and micronutrients and plant growth controllers. -- 6000 tons 22 per year

Making process

- Bio fertilizers are made by fermentation process. controlled give out fertilizers are made by coating urea with right coating agent.
- Well-proven technologies for all the products are ready (to be used).



Plant and machines

The main plant and machines is chiefly of fermentors, apparatus for making liquid clean, dryers, makes into powder mixers and making into a parcel machines. A well-equipped laboratory is the basic need [6].

Materials:

Main uncooked materials are fermentation thing by which something is done, urea, sulphur, lime, dolime and so on. All the in natural condition materials are ready (to be used).

Estimated Cost

Land and Buildings--- Rs.200 lacs
Plant and Machinery--- Rs.850 lacs
Engineering--- Rs.100 lacs
Working Capital--- Rs.500 lacs
Marketing Expenses--- Rs.100 lacs

Turn-over and power to make profits

Turnover of Rs 70 crores with 6 to 8% net profit amounts in addition can be was looking on as to come. It may take about three years to get done most good producing levels

Suggested location

Nearby cities

Design/ selections

This undertaking is recommended to businessmen as a start up undertaking. The main questioning is marketing. Equal points up with greatly sized fertilizer companies is one possible state of. If own marketing is offered undertaking an outer covering of 50 crores and above may be taken into account.

References

[1] Alagwadi and Gaur (1988) Trees, crops and soil fertility: concepts and research methods. CABI 0851995934. of beneficial Complete Publishing, ISBN-



International Journal of Research in Management Studies

A Peer Reviewed Open Access International Journal
www.ijrms

[2] Schorth G. (2003) Decomposition and nutrient supply from biomass. In G. Schorth & F.L. Sinclari, eds.

[3] Suneja (1994) Tamilnadu Agricultural University (TNAU) 1994. Crop production guide. Coimbatore, India.

[4] Alagwadi and Gaur (1988) Trees, crops and soil fertility: concepts and research methods. CABI Publishing, ISBN0851995934.

[5] Jambhhekar H. (2002) Vermiculture in India - online training material. Pune, India, Maharashtra, Agricultural Bioteks.

[5] Natural Resource, Agriculture, and Engineering Service (NRAES) (1992) On-farm composting, edited by R. Rynk.