BENEFITS OF SEA WEED EXTRACTS AS FERTILIZERS

1. A source of essential nutrients and plant growth promoters

When applied as basal dose Seaweed Extract improves soil texture and promotes natural flora and worms. As a basal application, it is excellent supplement to chemical fertilisers. It adds humus to the soil. It improves soil fertility as nutrients and hormones directly available to the plants in a natural form. Seaweed Extract supplies Nitrogen, Phosphorous, Potash as well as trace minerals like Zn, Mn, Mg, Fe, etc. Seaweed Extract contains natural plant growth material like auxins, gibberellins and cytokinins. The trace elements present in Seaweed Extract are in naturally chelated form and are readily available to the plants.

2. Induces chlorophyll and accelerates photosynthesis

Seaweed Extract promotes stronger stem and leaf growth. It accelerates photosynthesis and further develops healthy foliage. Foliar application of seaweed extracts will result in greater maintenance of chlorophyll, leading to greener plants. This is, in part, due to a complex family of different betaines in the seaweed extract, which help reduce natural damage to the photosynthetic process.

3. Offers resistance
   a. Cold resistance:

Seaweed Extract promotes the general health of plant including drought and frost resistance. Applied to plants that can cold acclimatize, seaweed extract initiates or speeds up the acclimatization process even when the plant is not subjected to a cold stress. This allows plants to tolerate greater levels of cold, reducing the amount of damage.

   b. Shock resistance

Seaweed Extract reduces transplant shock and promotes faster germination of seeds and faster growth of plant

   c. Pest and disease resistance

Seaweed Extract contains many sea life activity matters, algal sugar, iodine and etc at the proper ratio. Sea weed extracts increase in resistance to some fungi, molds, aphids, mites and scabs which attack plants at various stages. A regular application to the foliage of plants induces Localised Acquired Resistance (LAR) against a range of fungi, bacteria and viruses; there are indications that this effect may also be systemic. It can inhibit powder mildew, grew mildew and red spiders effectively especially for glasshouse red spiders, corticium and other diseases.

   d. Nematode resistance

The complex range of compounds found within our seaweed extracts can help reduce nematode damage. This includes a reduction in hatch and a disorientation or simple ‘burn-out’ of immature nematodes (J2s), minimizing root penetration.
4. **Effect on the productivity and quality:**

Seaweed Extract enlarges fruit size, increases the yield and improves the quality of the produce. Seaweed Extract induces flowering, prevents shedding of plants and prevents fall of unripe fruits. The fruits and vegetables grown by application of Seaweed Extract have longer shelf life. Applications also improve the plant’s ability to withstand certain levels of environmental stresses and may reduce the attacks and flare-ups of sap-sucking insect pests on the plants.

5. **Induces beneficial soil microbes**

Specific carbohydrates in our seaweed extracts serve as a source of food for beneficial and benign soil bacteria, resulting in a large increase in microbe numbers. These microbes produce plant growth stimulating compounds that encourage root growth and a significantly larger root mass. The increased bacterial population can also either physically exclude or compete with potential plant pathogenic soil fungi.

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For all trade enquiries send us an email to: info@natureneem.com