

S U S T A I N A B I L I T Y

Casa Angelina



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Technical Memorandum of the consultant Agr. Bianco Lugi Antonio enrolled al Collegio Nazionale degli Agrotecnici e degli Agrotecnici Laureati registration Register 13632/013., on behalf of the Hotel Casa Angelina Via G. Capriglione,147 84010 Praiano (Sa), concerning the use and cultivation with Natural and Organic methods in their own green space. The commitment undertaken will be to check that the methods of organic cultivation are the correct and suitable ones placing the utmost emphasis on the protection of biodiversity, respecting the natural cycles as a crucial point for the balance of the 'ecosystem, making it possible to obtain plants, flowers, vegetables and fruits by reducing or even eliminating the use of some products of chemical origin that are allowed in organic.

B A C K G R O U N D

Seeking ecological and low-risk solutions is the basic criterion for anyone who wants to perform sustainable cultivation practices while respecting nature. Cultivation using organic methods is the ideal choice for those who want genuine, tasty and environmentally friendly plants. The preference of plant species and native species grown in situ ensures the support and development of biodiversity, creating the conditions for a circular economy and km 0, minimizing food waste and intensive cultivation. Cultivated areas and green spaces become a sustainable and welcoming natural environment for people, animals and vegetables. Casa Angelina has decided to join this initiative, placing nature and tourism in symbiosis, for the protection of those who every year decide to enjoy the enchanting Amalfi Coast within the hotel.

DESCRIPTION OF THE PLACE

Casa Angelina is located in Praiano, in the beautiful and sophisticated setting of the Amalfi Coast, known worldwide as one of the emblems of the Campania region, below the Sentierodegli Dei. The hotel overlooks the sea and the Lattari Mountains Nature Park, presenting itself as an evocative mix of elegance and absolute relaxation, and immersing itself in the fabulous destination in which it is located. The outdoor area is enriched by fruit trees and citrus trees, a vegetable garden, ornamental and aromatic plants, and an enchanting lawn used for various recreational activities. The absolute gem of the outdoor areas is undoubtedly the swimming pool, over which stands the pergola of lemons, "Lo Sfusato Amalfitano, Citrus Amalphantanus," the most famous on the coast and the splendid ornamental plants of Duranta Ellisia and Buxus. Each room is taken care of down to the smallest detail, also using ornamental plants such as potted roses, lemon and olive trees, and from hedges of Eugenia, Myrtifolia, Metrosideros and Myrtus Pumila.

Organic treatments and cultural care will be carried out by the Expert Gardener, Michele Coppola, who oversees the Casa Angelina gardens together with his staff.

Interventions will be made by foliar and root applications to enhance plant response to biotic and abiotic stresses using solutions and products with elements necessary to enhance both the vegetative-productive development and the resources, endogenous plants, and to promote soil fertility, by promoting the microflora and microfauna important in plant growth and development, because through them the elements become available to the roots.

They will have as a reference dose per 100 liters of water for the foliar and root treatments, instead by weight Gr and/or Kg x space for soil treatments. The expression "how much is enough" will indicate the amount of product that will be used based on the surface area and the spaces where it will be intervened.

Technical data sheets and safety data sheets will be attached to this report. Safety data sheets of each individual product are used in this program. A line of interventions will be developed using products allowed in Organic and Natural Agriculture, effectively characterized by a high-quality standard of the raw materials and production processes used, in order to respond appropriately to the needs related to organic farming, such as:

- Promote soil fertility and structure
- Improving the bioavailability of all elements in the soil
- Promote the natural physiological processes of plants
- Improve fruit quality
- Increase organic matter content in the soil to create a sustainable and lasting fertility reserve
- Avoid waste and environmental pollution
- Stimulate natural plant defenses
- Prevent deficiencies

INTERVENTIONS AND CROP CARE

FIRST INTERVENTION JANUARY 19, 2022

After viewing the lawn that will host guests for activities, sports and recreation, the variety of plants that adorn the balconies, the paths and recreational spaces throughout the facility, it was decided in collaboration with manager Michele Coppola to carry out cultural care, which will be indicated below.

1) The pruning of the plants has been established and materials of vegetable origin will be used for the arrangement of the terraced branches such as natural Raphia twine.

2) Then the following foliar intervention will be carried out with natural and organic products to enhance the defenses of the plants while respecting the environment in which they live and to prevent any form of stress that could affect the ornamental vegetation of the facility:

Propolis (GreenCulture) 200 ml

+

Welgro Zn Mn (Masso) 200 g

+

Soybean oil (GreenCulture) 200 ml

3) General routine fertilization was indicated to be carried out with organic fertilizer Terraplus Natura NP (Compo) 4-18-0+CaO 33% organic farming Bio as much as is sufficient. I suggested its use to prepare the layer of soil in cultivation in the early stages of vegetative recovery, promoting soil fertility and structure, and increasing its organic matter content.

4) It will be used, later, in pots and flower beds of pine as a mulch because it keeps the soil warm during the cold season, protecting the roots of the plants from frost, while during the warm season it reduces the evaporation of water from the soil, allowing us to water our plants less frequently. Throughout the year it minimizes the presence of weeds thanks to the reduction of light supply and the release of the resinous, which prevent their germination.

CROP CARE AT THE GARDEN

1) Together with Mr. Michele Coppola, the area will host the vegetable seedlings and which ones will be planted, which will produce fruit available to the Casa Angelina kitchen staff.

2) Preparation and background fertilization, will be done to the soil that will host the vegetable plants, an organic soil conditioner, as much as necessary, obtained from the mixture of plant material and stabilized manure, the "Natural Humic (Fomet) Bio." I suggested its use to restore biological vitality to the soil profile.

3) Next used will be both mulch material such as straw, which is useful in creating a real barrier natural barrier against certain insects, as well as bamboo rods, to support varieties with indeterminate growth.

LOWN CROP CARE

One treatment was recommended to the turf area to be carried out over 15 days and repeated in about 40-60 days with the following products.

Radix Soil (Isagro- Cowan) fungicide allowed in Bio, 250g x the entire area, for sanitizing the turf

(Bio-agrochemical based on *Trichoderma asperellum* and *Trichoderma gamsii* with antagonistic action against fungal diseases of the soil)

After the first treatment, a fertilization will perform general routine with the following fertilizer:

Terraplus Natura NP (Compo) 4-18-0+CaO 33% organic farming. 21 kg should be used for the entire area. Its use is useful for promoting fertility and revitalizing the substrate, improving the ratio of soil/plant.

SECOND INTERVENTION MARCH 7, 2022

After careful observation of the areas together with Mr. Michele Coppola and his collaborators, new interventions have been agreed to.

CROP CARE TO ORNAMENTAL AREAS

1) Treatment by foliar application

All green areas are to be given, 3 times at 15-20 days apart, treatments with natural products and allowed in Bio to try to prevent any stress of various kinds and strengthening the plants, respecting the environment in which they live:

Propolis (GreenCulture) 200 ml

+

Welgro Zn Mn (Masso) 200 g

+

Neem Oil (GreenCulture) 200 ml

+

Basfoliar Amino Cu (Compo) 150 ml

TIRD INTERVENTION APRIL 20, 2022

This intervention will lay the foundation for the well-being of the garden, following as a goal the use of organic products.

CROP CARE IN THE VEGETABLE GARDEN

On this day, the vegetable garden seedlings to be planted at Casa Angelina were checked. Having verified their integrity together with the expert gardener Michele Coppola, it was decided how to continue with the cultural interventions.

The varieties of seedlings chosen for planting in the garden are as follows:

Zucchini Striato D'Italia "San Pasquale," a traditional variety Campania light green, striped fruit. Ideal for "Zucchini alla Nerano."

Zucchini Altea F1 early variety light green and striped fruit. Ideal for "Ciurillo Napoletano."

Sorrento tomato indeterminate round ribbed red clear traditional variety from Campania.

Sorrento Tomato indeterminate round smooth light red, also called "Cuore di Sorrento," traditional variety Campania.

Both tomatoes belong to varieties that are cornerstones of the Mediterranean.

San Marzano tomato indeterminate, elongated pointed shaped dark red color, traditional Campania variety. Ideal for sauces and preserves.

Principe Borghese tomato "Tomato del pizzo," variety indeterminate with a pointed round shape at the base colored red. Traditional Campanian-Vesuvian tomato also suitable for hanging. Ideal for salads and preserves.

Red and yellow Datterino Tomato F1, indeterminate variety round oval. With a sweet taste and low acidity, ideal for first dishes, various main courses, and desserts.

Pixel Tomato F1, small indeterminate variety structured in clusters. Ideal for sauces.

Corbarino Tomato, deep red variety with a shape elongated, sweet and sour, traditional Campanian. Suitable for sauces and preserves.

Tonda Violetta eggplant from Florence vigorous, compact, with a sweet and delicate flavor, is used as an ingredient in numerous Italian recipes.

Melanzana Lunga di Napoli Mirabelle, tall, vigorous, with fruit long and black in color, is used as an ingredient in the traditional "Parmigiana Napoletana."

Lunga Lunga Nera Nilo F1 eggplant, a Rimini-type variety, the longest and sought after by the market. Excellent fried and parmigiana style for the lovers of strong flavor.

Eggplant Cima di Viola elongated and slightly curved shape. It is a traditional Campanian product appreciated especially fried and alla "Parmigiana Napoletana."

Peperone Friggitello, is a sweet and not spicy cultivar of the "Capsicum annum." It is widely used in the traditional Neapolitan stir-fried. Tender and juicy yellow bell pepper is used as a side dish or in sauces with tomato to add body to sauces. Red bell pepper with thick, sugary crunchy flesh is used in oil or stuffing.

CROP CARE FOR VEGETABLES PLANTS

1) Background fertilization

Before the localized transplanting of seedlings is done, supplementation and background fertilization will be done. For seedlings, Terraplus Natura NP4-18-0 + 33%CaO (Compo) organic farming Bio fertilizer will be used. Ideal in the early stages of seedling growth improving the plant/soil ratio by increasing fertility. The amount as much as needed for the area concerned.

2) Fertigation.

After planting, a treatment will be made for fertigation to enhance plant response to stresses biotic and abiotic stresses, improving root development and vegetative-productive growth.

The following products will be used:

- Amino Biotic (GreenCulture) 200ml
- + Biocross Eva (Isagro-Gowan) 300g for (the whole area- interested)
- (Product in wettable powder, inoculum of mycorrhizal fungi with specific action on soil)
- +
- Welgro Mn Zn (Massò) 200g
- +
- Emosprint (Fomet) 200ml

3) Treatment for foliar application

We will continue with a foliar treatment after 7-10 days from implantation. Repeat it with the same cadence until the next inspection which will be at the end of May.

- Amino Biotic (GreenCulture) 200ml
- +
- Neem Oil (GreenCulture) 200ml
- +
- Propolis (GreenCulture) 200ml
- +
- Welgro Zn Mn (Massò) 200g

4) Ordinary Fertilization

As an ordinary fertilization, it has been determined that after 21 days the product Terraplus will be used as a covering fertilizer at the first ridging of seedlings. Nature N 8-2-2 (Compo) organic farming Bio, ideal for the first stage of seedling growth. Dose as much as is needed for the area concerned.

CROP CARE FOR FLORICULTURE AND GREEN AREAS

To improve the plant/soil ratio, stimulate the plant growth and enhance them during this vegetative stage, it was decided to adopt these interventions to be repeated every 7-15 days until the next survey.

1) Fertilization by fertigation.

Terraplus Solub NPK 8-7-6(+2) (Compo) 300g organic farming Bio organo-mineral fertilizer
Water-soluble bioactivator of microorganisms
soil benefits and nutrition enhancer.

+
Emosprint (Fomet) 300g provides quickly and promptly necessary elements to support the vegetative cycle.

2) Foliar treatments to enhance the response of plants to biotic and abiotic stresses to be used in the alternate periods as suggested indications.

a) Treatment to be made no more than twice.

Soybean Oil (GreenCulture) 200ml

+

Neem Oil (GreenCulture) 200ml

+

Green Flora (Masso) 200ml

(b) Treatment to be made no more than twice.

Propolis (GreenCulture) 200ml

+

Amino Biotic (GreenCulture) 200ml

+

Welgro Zn Mn (Masso) 200g alternating with Basfoliar Animo Cu (Compo) 150ml.

FOURTH INTERVENTION DAY 05-25-2022

In this new intervention, together with the collaborators of the facility, we verified that the solutions indicated to bring the necessary elements to the plants and the applications foliar to enhance the plants' response gave some satisfactory results. New interventions to raise the quality level of the plants.

CROP CARE TO ROSE BUSHES (ON THE FLOORS), GREENS AND PLANTS FOR FRUIT

1) Routine fertilization to the rose bushes at the Green and the Plants for Fruit. Fertilization with the product Terraplus Nature K4-4-12 (Compo) organic farming Bio is used to improve plant production and the quality of fruits and flowers by increasing resistance to environmental stresses. A sufficient amount will be used.

2) Foliar treatment is useful for stimulating and helping the plants' natural defenses and is to be used every week in all the target areas indicated above:

Bac MK (Masso)200g (Bacillus Thuringensis)*

*(Must only be used for 2 applications)

+

Neem Oil (GreenCulture)200ml

+

Soybean Oil (GreenCulture)200ml

+

Propolis (GreenCulture)200ml

+

Basfoliar Force SL (Compo)

Please remember to water the vegetation of the plants well

3) Technical note*

*I suggest and indicate after careful inspection at this point of the intervention that we need to give the lemons in the 401 and the one at the main entrance of the hotel facility a weekly fertigation (until my next intervention) because the plants need nutrient supplementation due to the stress of high temperatures. Use the following products in reference to the dose per 10L:

Emosprint (Fomet)30ml

+

Terraplus Solub NPK 8-7-6 (+2) organic farming Bio (Compo)50g

+

Basfoliar Amino Fe organic farming Bio (Compo)15ml

Crop care at the "Green Relaxation Area"

1) Routine fertilization to the lawn "Green Relaxation Area" whose area is 300sqm. I suggest the use of the following products to increase resistance to environmental stresses and prevent deficiencies:

Terraplus Natura K 4-4-12(Compo) organic farming Bio 21kg

+

Basafer Plus (Compo) organic farming Bio 21kg

2) *Technical Note.

*After cutting and pruning of the period, I suggest at each intervention the following products to reduce biotic stresses:

Propolis (GreenCulture)200ml

+

Soybean Oil (GreenCulture)200ml

+

Amino Biotic (GreenCulture)200ml

CROP CARE FOR VEGETABLE GARDEN PLANTS.

1) Routine fertilization is suggested for the excessive stress, heat and water of this period to promote the natural physiological processes and to prevent deficiencies; the products are as follows:

Terraplus Nature NP 4-18+0+ CaO 33%(Compo) organic farming Bio quantity as much as needed; use after 20gg the product Terraplus Natura N 8-2-2 (Compo) organic farming Bio quantity as much as needed.

2) Weekly foliar treatment to stimulate the natural plant defenses and improve fruit quality; the products I suggest are:

Basfoliar Amino Cu (Compo) organic farming Bio 200ml

+

Propolis (GreenCulture)200ml

+

Basfoliar Force SL (Compo) organic farming Bio 150ml

+

Neem Oil (GreenCulture)200ml

+

*Soy Oil (GreenCulture)200ml

3) *Technical Note.

*In some cases, the dose of 500ml may also be used, only and exclusively if there were particular biotic and abiotic stresses dictated by the period.

FIFTH INTERVENTION DAY 06-27-2022

It was decided to adopt the following cultural interventions to support the entire vegetation against high temperatures.

CROP CARE FOR VEGETABLE GARDEN PLANTS.

1) Foliar treatment for Ornamental Green and for the Fructiferous. The following products are indicated:

Amino Biotic (GreenCulture) 200ml

+

Neem Oil (GreenCulture) 200ml

+

Soybean Oil (GreenCulture) 200ml

+

Propolis (GreenCulture) 200ml

+

Basfoliar Force SL (Compo) organic farming Bio 200ml

2) Fertigation. Suggested to promote vegetative-productive growth and improve the uptake of nutrients and water for Ornamental Green and Fruit trees. The products indicated are as follows:

TerraPlus Solub NPK 8-7-6-(+2MgO)(Compo)organic farmingBio 500g

+

Emosprint (Fomet) 300g

+

Agrilon Microcombi (Compo) 200g

CROP CARE FOR BOTH ORNAMENTAL GREEN AND FRUIT TREES.

1) Foliar treatment for Ornamental Green and for the Fructiferous. The following products are indicated:

Amino Biotic (GreenCulture) 200ml

+

Neem Oil (GreenCulture) 200ml

+

Soybean Oil (GreenCulture) 200ml

+

Propolis (GreenCulture) 200ml

+

Basfoliar Force SL (Compo) organic farming Bio 200ml

2) Fertigation. Suggested to promote vegetative-productive growth and improve the uptake of nutrients and water for Ornamental Green and Fruit trees. The products indicated are as follows:

TerraPlus Solub NPK 8-7-6-(+2MgO)(Compo)organic farmingBio 500g

+

Emosprint (Fomet) 300g

+

Agrilon Microcombi (Compo) 200g

CROP CARE TO VEGETABLE GARDEN PLANTS.

1) Foliar treatment to stimulate and help the natural plant defenses. The following products are indicated:

Amino Biotic (GreenCulture) 200ml

+

Neem Oil (GreenCulture) 200ml

+

Soybean Oil (GreenCulture) 200ml

+

Propolis (GreenCulture) 200ml

+

Basfoliar Amino Cu (Compo) 150ml organic farming Bio

+

Bac MK (Masso) 200g*

*(must be used for 1 application only).

2) Routine fertilization. Carry out the following fertilization to improve the bioavailability of all the elements in the soil, to improve fruit quality and to stimulate the plants' natural defenses. The product indicated as follows:

TerraPlus Natura K 4-4-12 (Compo) organic farming Bio
Amount to be used as much as needed.

"RELAXATION AREA" CROP CARE.

My suggested products and practices are as follows:

*Technical note:

*Post mowing of the lawn in the Relaxation Area. This intervention is suggested whenever you carry out this cultivation practice by performing a foliar treatment to stimulate the lawn's natural defenses and to promote its natural physiological processes.

1) Foliar treatment. With the following products:

Amino Biotic (GreenCulture) 200ml

+

Propolis (GreenCulture) 200ml

+

Emosprint (Fomet) 200ml

2) Routine fertilization of the lawn to also prevent nutritional deficiencies. Use the following products at every 100sqm:

Basafer Plus (Compo) organic farming Bio 3kg

+

TerraPlus Natura K 4-4-12 (Compo) organic farming Bio 5kg.

SIXTH INTERVENTION DAY 07-25-22

CROP CARE FOR GREENS, ORNAMENTAL PLANTS, FLOWERS AND FRUIT TREES.

1) Foliar treatment to stimulate the natural defenses of the plants. Products indicated are as follows:

Propolis (GreenCulture) 200ml

+

Amino Biotic (GreenCulture) 200ml

+

Soybean Oil (GreenCulture) 200ml

+

Rock Powder (Compo) organic farming Bio 500g*

*(It is suggested that the product be dissolved in water for 30 minutes

before the other products).

2) Fertigation to promote both natural processes and physiological processes as well as to prevent plant deficiencies and both promote a bio-activation of microorganisms

Beneficial to soil microorganisms. Suggested products are as follows:

Agrilon Microcombi (Compo) organic farming Bio 200g

+

Basfoliar Amino Fe (Compo) organic farming Bio 200ml

+

TerraPlus Solub NPK (Compo) organic farming Bio 500g

+

Amino Biotic (GreenCulture) 200ml

50 steps.

CROP CARE IN THE VEGETABLE GARDEN.

1) Leaf treatment to stimulate the natural defenses of the plants promote the natural processes. Products to be used are as follows:

Propolis (GreenCulture) 200ml

+

Amino Biotic (GreenCulture) 200ml

+

Neem Oil (GreenCulture) 200ml

CONCLUSIONS

With this intervention of mine ends the first phase of professional management of green care at Casa Angelina. So I have directed in all phases, as per the documentation prepared by me, all the interventions carried out during the cultivation cycles of the plants at the facility. Therefore, the choice made by the Casa Angelina facility to reduce the use of chemicals in favor of those of natural origin finds its ideal destination in the garden and orchard products used in the kitchen. Indeed, we all wish to consume fruits and vegetables that are healthy and wholesome. The choice, as reflected in the program, has not fallen only on edible vegetations, but also on those that are ornamental. Putting into practice the care of greenery with natural methods means making an important choice for our health and well-being. Green space becomes a "clean" natural environment and welcoming for everyone: adults and children, our animals and those who live in nature. Bees and butterflies, hedgehogs, birds of many species and many other forms of life can live within their ecosystem undisturbed, supporting all the mechanisms of nature. For this reason, using the organic method means nurturing all the natural processes that give well-being to the environment and, consequently, to humans.

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