



For all soil conditions.

Pre-Mixture
In a 20L pail, take 100mL Aquachil with 15L water. Add
500 g Hydrated Lime [Ca(OH)₂] or 1 kg Calcium Carbonate [CaCO₃]
Stir well until dissolved. Strain with soft cloth and pour contents to Mixture 1.



80 L WATER

Pre-Mixture

500 ml WHOLESOME

500 ml I-SURGE

500 ml O-PHOS

(WIO)



100 L WATER

3 Kg Urea [CO(NH₂)₂]

1 Kg Potassium Nitrate (13:00:45)-KNO₃

750 g Magnesium Sulphate (MgSO₄)

1 Kg Calcium Nitrate [Ca(NO₃)₂]

2 Kg Di-Ammonium Phosphate (NH₄)₂HPO₄

300 g Zinc Sulphate



iSoL
1 Acre Program for Cannabis (see below)

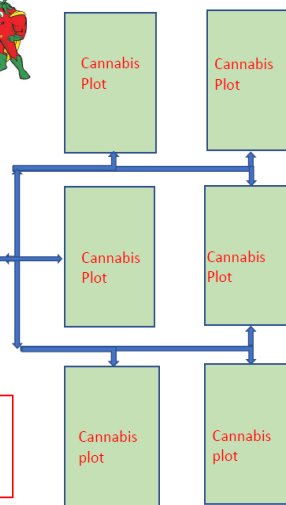
iMicro
Mix Micronutrients Blend 120 gm

20 g Ammonium Molybdate (H₂MoN₇O₄)
100 g Micro-Nutrients Mix Grade IV
Zinc [Zn - 6%]
Iron [Fe - 4%]
Manganese [Mn - 0.5%]
Boron [B - 0.2%]
Copper [Cu - 0.2%]



iSoL can be used on any crop.

APPLICATION	12 Weeks (3 months) per Acre (After Grow House)											
	1	2	3	4	5	6	7	8	9	10	11	12
i-SoL, Litre	50	50	75	75	100	100	100	100	125	125	125	125
Secondary Culture, Litre	50					50				50		
Foliar i-SoL, Litres			20	20	20	20	20	20	20	20	20	20



BILL OF MATERIALS -1 ACRE

PRODUCT	SIZE	Per 200 L Barrel	QTY FOR 1400 L (7 BARRELS)
		BOTTLE	BOTTLES
WIO Pre-Mix	500 mL	3	21
iMICRO	120gm	1	7

MICROBIAL TREATMENT (SECONDARY CULTURE) in mL

INNO CARE	250 mL		250 mL
iSurge	50 mL		50 mL

FERTILIZERS	QTY - 2 WEEKS	QTY - 1 MONTH	QTY - 3 MONTHS
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MIXTURE 1			
CALCIUM CARBONATE (kg)	1	2	6
MIXTURE 2			
UREA (kg)	3	6	18
POTASSIUM NITRATE (kg)	1	2	6
MAGNESIUM SULPHATE (kg)	0.75	1.5	4.5
CALCIUM NITRATE (kg)	1	2	6
DI-AMMONIUM PHOSPHATE (kg)	2	4	12
MICRONUTRIENTS			
AMMONIUM MOLYBDATE (g)	20	40	120
ZINC (g)	6	12	36
IRON (g)	4	8	24
MANGANESE (g)	0.5	1	3
BORON (g)	0.2	0.4	1.2
COPPER (g)	0.2	0.4	1.2

i-SOL is an application method to enhance FUE by using our products. We have developed a method to prepare a "WHOLESOME CONCOCTION" of Macro Nutrients (Nitrogen, Phosphorus, Potassium), Micro Nutrients (Zinc, Iron, Manganese, Copper, Boron etc) and Essential Nutrients (Calcium, Magnesium, Sulfur, Molybdenum etc). i-SOL can solubilize solid and low-cost fertilizers up to 10% in water. Instead of Water soluble fertilizers, farmers can use Di-Ammonium Phosphate, urea, Calcium Nitrate etc. Instead of chelated micronutrients, farmer can use sulphates of Zinc, Iron, Manganese & Copper.

Crop specific required solid fertilizers can be selected and quantify to prepare Crop specific i-SOL. Then, based on the age of the crop, i-SOL can be administered with irrigation water. The volume of i-SOL may vary from 10 litres/acre/irrigation to 60 litres/acre/irrigation. Farmers can get rid of cumbersome fertilizing regime and simplify by using i-SOL Technology.

Moreover, as i-SOL provides nutrients in Bio-Available form, plants growth dynamic gets a boost. Utilization of nutrients is done efficiently to thwart Pest & Diseases. For example, it helps to control the Nitrate-Nitrogen below 600 ppm in petiole, which will enhance the plant growth in more than one way. It provides all nutrients – macro, micro, trace, essential- all the time, to avoid deficiencies.

- It will thwart sucking pest infestation.
- It will click reproductive cycle at least 8-10 days before than usual cycle.
- The fruit bearing capacity of plant increases.
- Uniformity of produce is over 90%, which ensures sale and reduces labour for sorting.
- It increases the life span of plant to enhance yields and to productivity per season.

i-SOL is being used by farmers who has only a half an acre land or a farmer who owns 250 acre land. It has been administered through MIS (micro irrigation system) and through flood/open irrigation.

It is being used for cash crops (vegetables, cotton, moringa leaves, aloevera), spices (cumin, chilly pepper, ginger, turmeric), horticulture (pomegranate, palm dates, table grape).

In Addition to i-Sol we aim to involve Secondary Culture (SC). Secondary Culture is an in-Situ process carried out at the farm of application, where the microbes from the local soil ecology are reproduced and re-introduced into the farm. This is done with the help of IEC's product INNOCARE, which is a microbial inoculum (Comprising Lactic Acid Bacteria and Saccharomyces cerevisiae) and I-SURGE (A nutrient mix with a capacity for buffering and microbial growth regulation) are introduced in a carbohydrate rich media along with local soil to ferment the local microflora. This resultant microbial Secondary Culture has the ability to drive microbial activity to cause more biodegradation of organic biomasses. Within 4-5 days of initiation of fermentation, each ml of SC shall contain 2.0 X 10¹³ CFUs.

This process is adopted to :

1. Enhance microbial activity in the soil
2. Improve performance of the administered fertilizers
3. Ensure that microbial profile in the rhizosphere will allow continuous sustenance of white root systems so that plant's nutrient uptake mechanisms are never compromised.

In addition to this application of SC, its foliar application also promises great responses like:

1. Improved pathogen management due to the presence of beneficial microbes in the phytosphere
2. Attraction of honey bees to the point of application