



## Project Estimate

**Strawberry + Spinach/Coriander,  
Vertical farming with Smart agriculture.  
Controlled Environment Agriculture (CEA)**

## PROJECT EXECUTION STEPS



### CLIENT MEETING

When a client contact **gronatura**, and further decided to move forward, we schedule a meeting with them at their place / field. The meeting facilitates both of us to understand each other. Further it makes us to understand the needs of the client and their farmland, topology market etc....very well. Based on the data collected, we suggest the best model and crops.



### TECHNICAL VISIT

After the client meeting, the technical team's visit is very pivotal. This documents an existing basic facility and further needs to be implemented. This visit records all the details of the existing and future implementations. This eases the work to prepare the accurate techno economic feasibility report and an estimate. The same will be shared with the client.



### PROJECT MATERIAL DELIVERY

Soon, The TEFR / Estimate reviewed and approved by the client, Memorandum of Understanding (MoU) is executed. After the receipt of the payment according to the MoU The material delivery takes place.

(The MoU comprises, Complete deliverables, Schedule, Plans, estimate, cropping info. and other terms and conditions).



### PROJECT WORK COMMENCEMENT

Before project materials reach the project site, the team of skilled labours arrive and start all the necessary preparation works.

The complete project setup will take anyhow 45-60 days. The detailed project schedule will be shared in advance with the client and work will be executed accordingly.



### TESTING, COMMISSIONING AND TRAINING

Once all the setup works completed, the through testing and commissioning of Smart agriculture system will be done.

The offsite field trails and training will be provided with all required technical materials and technology.

Consultancy services will be provided at least for a crop cycle with both offsite visits and online by our agronomists.

## INVESTMENT BREAK-UP (CAPEX)

SI.#	Item	UoM	Quantity	Amount
#1	<b>CEA (Fan and Pad polyhouse),</b> 28m x 76m = 2,128 Sqm. Air circulation fans (Included)	Sqm.	2,100.00	4,468,800.00
#2	<b>Aero tower (60 plants)</b> 1,750 Ea. (Including cocopeat, Drainpipe system, Nutrients, Timers, Transportation and Taxes)	Ea.	3,750.00	6,562,500.00
#3	<b>Strawberry plants</b> 115,000 x 15 Rs. <b>Spinach/Coriander seeds</b> , Fertilizer etc....	L/S		2,125,000.00
#4	<b>Irrigation system:</b> (Automatic filtering system, Pipes, Foggers, Valves, Pumps, Tanks, and other accessories)	L/S		1,000,000.00
#5	<b>Zinc Aluminum tank:</b> (50K Ltrs)	L/S		400,000.00
#6	<b>Smart agriculture:</b> (LoRaWAN enabled IoT sensor based automated Climatic control, Irrigation control and Fertigation system)			700,000.00
#7	<b>Packaging material</b> Punnets, MAP pouches and stickers. Strawberry Punnets: 115,000 Spinach MAP bags 315,000 Carton (Outer) boxes for additional packaging	L/S		2,500,000.00
#8	<b>Weed mat:</b> 110/150 GSM x 2.1m x 50m weed mat	L/S		100,000.00
#9	<b>RO water plant:</b> 2,000 LPH System	L/S		375,000.00
#10	<b>Cold storage</b>	L/S		1,000,000.00
#11	<b>Generator / Solar system</b>	L/S		900,000.00
#12	<b>Pro-tray, cocopeat, Nursery setup, Minor equipment, and accessories</b>	L/S		300,000.00
#13	<b>Storeroom and Control room</b>	L/S		800,000.00
#14	<b>Reaper Van</b>	L/S		1,000,000.00
<b>Total</b>				<b>22,231,300.00</b>

for better farming....

<b>Total Project cost (with subsidy)</b>	
<b>NHB Subsidy</b>	2,200,000.00
<b>PM-Kusum (Solar)</b>	350,000.00
<b>Packaging House</b>	300,000.00
<b>Subsidy, TOTAL</b>	<b>2,850,000.00</b>
<b>Total investment with subsidy</b>	
<b>19,381,300.00</b>	
<b>Total Project cost (with consultancy and subsidy)</b>	
<b>Consultancy charges @ 5% (including 18% GST)</b>	<b>1,143,496.00</b>
<b>Total investment with subsidy and consultancy</b>	
<b>20,524,796.00</b>	

## ECONOMICS

OPERATING EXPENDITURE (OPEX)		
SI#	Description	Amount
01	Seedlings, Seed, fertilizers and IPM products	2,300,000.00
02	Packaging charges	2,500,000.00
03	Utility	800,000.00
04	Labour charges	1,000,000.00
<b>Total</b>		<b>6,600,000.00</b>

1 <sup>st</sup> YEAR, Economics (Crop cycles: Strawberry(1),spinach/coriander(6))		
SI#	Description	Amount
<b>Gross Income</b>		
01	<b>Strawberry</b> 0.25 kgs x 105,000 Netpots = 26,250 Kgs x 250 Rs/Kgs	6,562,500.00
02	<b>Coriander / Spinach</b> 0.10Kgs x 105,000 Netpots = 10,500 Kgs 10,500 Kgs x 6 crop cycles = 63,000 Kgs x 120 Rs/Kgs	7,560,000.00
<b>Operational charges</b>		
01	Utility	800,000.00
02	Labour charges	1,000,000.00
<b>Net Income 1<sup>st</sup> year</b>		<b>12,322,500.00</b>

2 <sup>nd</sup> YEAR, Economics (Crop cycles: Strawberry(1),spinach/coriander(6))		
SI#	Description	Amount
<b>Gross Income</b>		
01	<b>Strawberry</b> 0.25 kgs x 105,000 Netpots = 26,250 Kgs x 250 Rs/Kgs	6,562,500.00
02	<b>Coriander / Spinach</b> 0.10Kgs x 105,000 Netpots = 10,500 Kgs 10,500 Kgs x 6 crop cycles = 63,000 Kgs x 120 Rs/Kgs	7,560,000.00
<b>Operational charges</b>		
01	Seedlings, Seed, fertilizers and IPM products	2,300,000.00
02	Packaging charges	2,500,000.00
03	Utility	800,000.00
04	Labour charges	1,000,000.00
<b>Net Income per year</b>		<b>7,522,500.00</b>

RETURN ON INVESTMENT (ROI)		
SI#	Description	Amount
<b>Net Income</b>		
01	1 <sup>st</sup> year income	<b>12,322,500.00</b>
02	2 <sup>nd</sup> year income	<b>7,522,500.00</b>
02	3 <sup>rd</sup> year income	<b>7,522,500.00</b>
<b>Total</b>		<b>27,367,500.00</b>
<b>Capital Investment</b>		
01	Capex	<b>20,524,796.00</b>
<b>Return on Investment + Profit, on 3<sup>rd</sup> year end.</b>		<b>6,842,704.00</b>

## STRAWBERRY , SPINACH, CROP CYCLE

Year	Annual scheduling / activities											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
First	S		S		S		S		S			
Second	S		S		S		S		S			
Third	S		S		S		S		S			
Fourth	S		S		S		S		S			
Fifth	S		S		S		S		S			
Sixth	S		S		S		S		S			
Seventh	S		S		S		S		S			
Eighth	S		S		S		S		S			
Ninth	S		S		S		S		S			
Tenth	S		S		S		S		S			

  

Transplanting of seedlings	Crop growing phase
Harvesting	S: Spinach/Coriander; <b>S: Strawberry</b>

\*\*Cycles/Yield is subjected to various factors. It may vary from region to region, climatic conditions, varietal selections, and practices.

## TERMS AND CONDITIONS

Items	Descriptions
<b>Payment</b>	As per the final meeting agreements.
<b>Delivery schedule</b>	With in 15 days from the receipt of the first payment.
<b>Completion schedule</b>	60-90 days from the date of the first payment receipt.
<b>Taxes and freight</b>	All-inclusive in the estimate
<b>Arbitration</b>	Palakkad jurisdiction only
<b>Bank Account details</b>	<b>GRONATURA CONSULTANCY</b> <b>Current A/C #: 250905000524</b> <b>IFSC: ICIC0002509</b> <b>BANK: ICICI BANK</b> <b>BRANCH: VICTORIA COLLEGE,</b> <b>PALAKKAD, KERALA, 678001.</b>
<p>Client must arrange temporary accommodation to all workers at site / Project land. If the accommodation is far from the workplace, adequate transportation facilities should be provided to the workers.</p> <p>Client must provide potable water, uninterrupted power supply during the project execution.</p> <p>Client or their concerned and authorized people must bring to the knowledge of the consultancy about any discrepancies of materials, work etc... with in 48 hours of the receipt/execution of the same.</p> <p>Client must provide and ensure safety and security of all the material at work site.</p> <p>Client must construct Control room and storage rooms for irrigation/fertigation system and fertilizers, other inputs, and accessories storage.</p> <p>Any damaged caused due to unscientific storage or ignorance by the Client / related people can't be entertained. The loss caused must be borne by the Client, if it doesn't fit the rule books of the manufacturers / suppliers.</p> <p>Client mustn't share plans, technical details, and other vital and sensitive information to the unauthorized people / organization without approval and knowledge of the consultancy.</p> <p><b>FYI: Gronatura reserves all the rights to use/implement new material / technology any time without prior information / approval of the clients.</b></p>	

## A SERVICE GUARANTEE.

Gronatura consultancy, in general execute only turnkey projects. i.e., Build and Transfer basis.. As per the meetings and understanding with the client, this can be altered and gronatura can undertake partially / complete operations with marketing assistance to make sure that the client gets their investments back and profits as per our projections, at the earliest. Till the client receive their investments back (RoI) with the profits, the service of the gronatura will be available and continued.

The conditions applied are as following

- Client has to arrange agriculture graduate(s) and skilled manpower for the daily overall operations. The wages and perks for the same is the scope of the clients only.
- Gronatura, trains the people and transfer the technologies to the client's till they get expertise and execute the project independently or till the client receive their ROI / Break even.
- Client has to arrange transportation and accommodations to the gronatura people and others, if, the distance of the project location of the project is 5+ Kilometers from the tier 1/2/3 cities.



**Contact us,**



**gronatura consultancy,**

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