

Spinach



Project Estimate

“Spinach”, Linear Vertical Hydroponics (LVH)



INVESTMENT BREAK-UP DETAILS

SI#	Item	Unit	Qty	Rate	Amount	Rem
CEA (Fan and Pad Polyhouse)						
01	36x28 Sqm.	Sqm	1008	2100	2,116,800.00	
02	Air circulation Fans 1400 RPM	Ea.	10	L/S	90,000.00	
INTERNAL STRUCTURE (32x24m)						
01	GI Sqr. Pipe (Ldr pol) 50x50mm x 2.6 mm thk, Length (3.74 Kg/m) 4m x 13P x 21R =1092m	Kgs	4,085	100	408,500.00	
02	GI Sqr. Pipe (Footing) 45x45mm x 2.9 mm thk, 6M Length (3.67 Kg/m) 1m x 13P x 21R =276m (46 x 6m tube: 276m)	Kgs	1,015	100	101,500.00	
03	GI Sqr. Pipe (Railing) 45x45mm x 2.6 mm thk, Length (3.67 Kg/m) 24m x 21R = 504m (84 x 6m tube: 504m)	Kgs	1,850	100	185,000.00	
04	Clamps and Nuts	L/s	L/s	L/s	250,000.00	
05	GI Sqr. Pipe (Top support) 45x45mm x 2.9 mm thk, 6M Length (3.67 Kg/m) 32m x 5 = 160m (30 x 6m tube: 180m)	Kgs	674	100	67,400.00	
06	10mm Rebar 0.3m x 2 x 13P x 25R (33 x 6m rebar: 198m)	Kgs	122	L/s	10,000.00	
07	PCC 1:3:6 (M10) (300mm x 300mm x 600 mm) 1ft x 1ft x 2ft (0.3 x 0.3x 0.2= 0.042 Cum. 260 footings	Cum.	11	L/S	50,000.00 Cement: 50 Bags; F.Agg: 8 Ton; C.Agg: 16 Ton	
Page sub total					3,279,200.00	

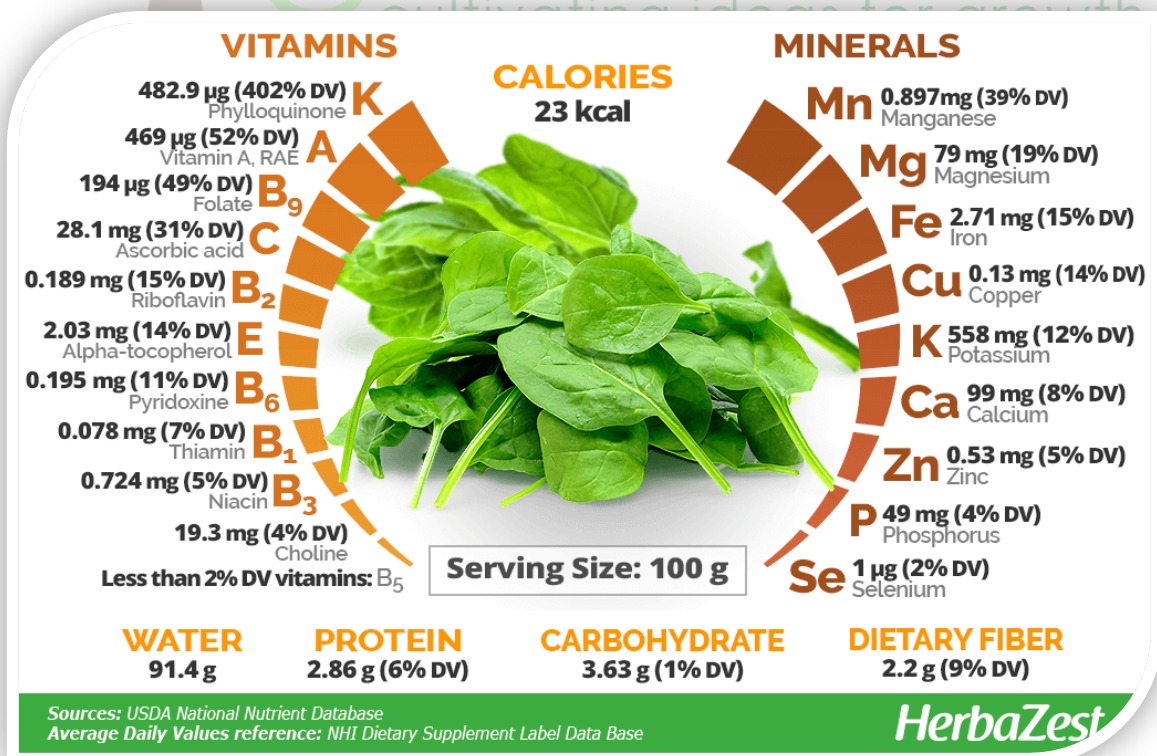


Sl#	Item	Unit	Qty	Rate	Amount	Rem
GULLY / CHANNEL / PIPE (NFT/DFT), END CAPS, NETPOTS						
01	Custom made, PVC NFT/DFT gully /channel, UV resistance, Food grade, lead free, 6" Class2 (4Kg), 6m length 12L x 24m+21R		350 x 6000 MTR		2,100,000.00	
02	END CAP / COUPLER	Ea	1,008	100	100,800.00	
03	3" NET POTS	Ea	70,000	3	210,000.00	
FERTILIZER AND OTHER INPUTS						
01	Fertilizers, Bio fertilizers and controls	Kgs. / Ltrs.	L/S		550,000.00	
PVC FOOD GRADE TRAYS WITH LABEL/STICKER (For 3 months)						
01	PVC Packaging boxes with brand Stickers	L/S.	L/S		520,000.00	
IRRIGATION						
01	Complete irrigation system with pumps, Auto filters.	Ea.			800,000.00	
WATER AND INPUTS STORAGE						
01	Tanks (5000L x 4)	Ea.	4			
02	Tanks (1000L x 4)	Ea.	4		400,000.00	
IOT SYSTEM /WEATHER STATION						
01	Automated system (pH, EC Automatic control, Dozer system, Humidity, Temperature sensors)			L/S	600,000.00	
CCTV SURVEILLANCE						
01	Complete system			L/S	100,000.00	
WHEELBARROW, LADDER etc..						
01	Ladders, Wheelbarrows, testing equipment	Ea.	8		200.000.00	
SPRAYER						
01	Portable/ Power sprayer (Battery), cocopeat, trays, Misc.	Ea.	2		200,000.00	
GROUND COVER / WEED CONTROL MAT						
01	HDPE ground weed mat	Cum.	1280	50	64,000.00	
SEED (Local / Exclusive)						
01	6-10 seeds/ net pots	Kgs	600	334	200,000.00	
Page sub total					6,044,800.00	



SI#	Item	Unit	Qty	Rate	Amount	Rem
STRUCTURE contract with complete works till transplantation						
01	Internal Structural work (Structure erection including civil works, Gully installation, weed mat installation, Assisting drip irrigation personals during irrigation installation.				500,000.00	
UTILITY						
01	4 stage RO plant (Based on water quality can be decided)				350,000.00	
02	Solar / DG / Inverter				1,000,000.00	
NURSERY						
01	Nursery rack with LED lights				350,000.00	
Page sub total					2,150,000.00	
TOTAL INVESTMENT WITH CONSULTANCY					13,009,024.00	

SPINACH: NUTRITIONAL FACTS





ECONOMICS

Investment	13,009,024.00
Total seedlings	48,000
Net pots (100x2 side x 12L x 20R (200mm+1500mm))	48,000
Vertical layers (Linear)	12
Yield	86,400 Kgs
Gross yield / crop cycle (Every month)	7,200 Kgs
Yield per Net pot (In a single crop cycle)	0.150 – 0.250 Kgs
Crop cycle (Every month)	12 cycle (12 months)
Gross Income (7,200 Kgs x 12 Cycles x 100.00 Rs) (Considering a farmgate price with Tray packaging @ 100 Rs/Kg)	8,640,000.00
Recurring charges	4,470,000.00
Seeds	200,000.00
Fertilizers	550,000.00
Labour	900,000.00
Utility and Misc.	720,000.00
MAP Packaging	1,500,000.00
Transportation	600,000.00
Net Income	4,170,000.00

- The yield may subject to vary as per the climatic conditions, Varietal selection and practices adopted.
- The farmgate prices are considered here is an average price, is subject to vary per the city / Markets.

SPINACH, CROP CYCLE PLAN (SCHEDULE / ACTIVITIES)

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

	Transplanting of seedlings		Crop growing phase
	Harvesting		

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



CLIENT SCOPE (Essential things, mandatory for the project. Ignore if the same are already exist)						
01	Storage, labour and packaging rooms					1,000,000.00*
02	Fencing					40,000.00*
* CLIENT SCOPE expenses aren't considered in these calculations						

These prices are without any government subsidy.

Uninterrupted power and water supply is mandatory for the project.

While making estimate we have considered everything, but their estimated prices / expenses are not included while final calculations eg., Quarters for labours, Packing/storage room, Fencing, Generator / Solar system, UPS, etc., (Excluding Land). If any of the facilities / things aforementioned preexist, the same can be utilized for the project, if not essential things can be mandatorily required to setup/procure if they are found inevitable. Client should be notified in advance for the same and required arrangements should be done by the client within the scheduled / requested time duration.

Materials procurement and all the works are strictly done by our authorized associates, agencies or sub-contractors only.

We share complete Bill-of Quantity (BoQ), Drawings, other operation procedures and schedules for easy and effective operation with clients.

Above mentioned Prices are subjected to escalation. Freight charges and IGST are inclusive (Will be notified prior to the procurement if necessary for any discrepancies).

FYI: Gronatura reserves all the rights to use/implement new material / technology any time without prior information / approval of the clients.



SPINACH: In Modified Atmosphere Packaging (MAP), Container and Pouch.



TERMS AND CONDITIONS




(Turnkey project / LCCC (Landlord Cropping, Company Consultancy))

Items	Descriptions
Payment	75% in advance along with Purchase order / Project confirmation. 25% before commencement of the internal structure works.
Delivery schedule	With in 15 days from the receipt of the first payment.
Completion schedule	75-90 days from the date of the delivery.
Taxes and freight	All-inclusive in the estimate
Arbitration	Palakkad jurisdiction only
Bank Account details	GRONATURA CONSULTANCY Current A/C #: 250905000524 IFSC: ICIC0002509 BANK: ICICI BANK BRANCH: VICTORIA COLLEGE, PALAKKAD, KERALA, 678001.
<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>	



Contact us....

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