Auroville Project Coordination Group
GRANT PROPOSAL FORM

GENERAL INFORMATION

1. Project title): Integrated Perennial Horticulture

2. Project duration: 2024-2029

3. Project Summary *(NB 1-3 brief, concise lines to summarize contents of proposal)*:
This project is to develop integrated perennial horticulture over 25 acres in five years. Integrated here means a diverse cultivation system that has plants of different life cycles, needs of sun and nutrients which also complement soil fertility grown with cover crops and permanent micro irrigation. Perennial here means perennial and long-term crops as opposed to annual or seasonal crops, therefore focusing on tree crops and shade-tolerant crops. Horticulture here means focusing on food crops to meet the food requirements of the community.
Integrated Perennial Horticulture is a way of optimizing land utilization through diverse and dense planting of crops such as fruits, herbs, roots etc.
Our goal is to systematically develop the land of AuroOrchard in this way and open up the design and research of this work to other farms in Auroville and the bioregion.

4. Total Cost of the project:
100,000 Euros

5. Funding amount requested:
19,189 EUROS (including the Auroville administrative charges for the transfer)

6. Name of project holder and other (contact) details:
Anshul Aggarwal
auroorchard@auroville.org.in
anshul@auroville.org.in
+91-9882685365

7. Date of application:

March 10, 2024.

BACKGROUND INFORMATION

8. Background *(SVP provide history/context within which this request/initiative takes place)*:

AuroOrchard is the oldest (started in 1968) and the second largest farm (25 acres) of Auroville, growing a significant part of the fruits and vegetables produced in the community (over 60% of all fruits and vegetables produced in Auroville come from AuroOrchard). It also serves as the main poultry farm of Auroville distributing over 5000 eggs/week.
The Mother gave the responsibility to grow food for Auroville to Gerard in 1968 and the farm has grown tremendously in the last 55 years.
Today, the farm faces a big transition due to several parts of the farm already exchanged for land in the Auroville city area (totally 16 acres), a push from the internal governance to find profitable economic models for farms, a lack of enough people to help and the handover of management from the pioneers to a new generation of farmers.
The farm needs to be reinvented to optimize what exists already and build what still remains to fulfil its vision of feeding Auroville.

Around 60% of the area of AuroOrchard is designated as orchards (mango, cashew, coconut, lemon and other fruit trees mainly grown as monocrops. In 2022, AuroOrchard submitted a project proposal for a PCG grant for the diversification of its mango orchard. The grant received was crucial in establishing some new irrigation and plantation systems in the mango orchard as well as adding crops like turmeric, coffee, acacia and other mango varieties.
Based on this experience, we feel that the orchards of AuroOrchard have a huge potential for growing food for Auroville. By small interventions and redesigning, these orchards can be intensified and diversified for higher production and better conservation of land and water.

We have the vision of moving towards perennial cultivation systems meaning more long-term crops and fruit tree orchards rather than annual crops or vegetables.
The reasons for this are:

1. Orchard management is less labour intensive compared to vegetable cultivation and this will help as agricultural labour is difficult to get.
2. Permanent cultivation systems are easier to irrigate through micro-irrigation which helps in the conservation of water.
3. These systems do not need to be tilled regularly and hence help sequester carbon more efficiently.
4. There is a high demand for fruit in Auroville which is currently not being met
5. There is a greater potential for processing of fruits which helps in using surplus which in turn motivates the creation of abundance.
6. The problems experienced by us are being faced by farmers all over. We also see a change in land use from vegetables to mono-cash-crop in the bioregion. We would like to develop a contextual model of food production that is not only productive but also financially robust. Such solutions are required to encourage old and young farmers to continue agriculture.

9. Problem statement:

We have arrived at these problem statements after years of reflection on the Auroville food system. Despite several efforts, the entire system of production, distribution and consumption remains fragmented. One of the reasons for this is that each new solution only addresses a part of the problem. We feel that the whole system needs re-thinking and we have to redefine some of the ideals that we have based Auroville farming on.

1. **Need**

AuroOrchard was given the mission by the Mother to grow food for Auroville. Somewhere down the line, we have come to believe that we (and other Auroville farms) must grow all the food that Auroville eats. In an attempt to reach food self-sufficiency, we have tried to impose the limitation on what people want to eat on the farmers and what farmers can grow on the consumers.
In an ideal situation, these two should match, but considering open markets within and outside Auroville, restricting the diet of the community to only what grows here is both impractical and unethical.
In such a situation, we are forced to consider what can we grow that will be used by the community. In our findings, we noticed that there is still a large gap between the fruits that the community needs and what is being currently supplied by the farms.
Therefore, instead of focusing on annual crops and vegetables (especially crops like ladies' fingers and eggplant) which are sometimes difficult to market within Auroville, we want to fill the gap in fruit requirements for the community.

2. Potential

Some of the farms have tried planning for production according to existing demand but the quantities harvested are always more or less than planned due to several natural factors. We have seen that when there is an excess of vegetables, it becomes a problem because they have less potential for processing and as they perish quickly, they cannot be transported always to other markets. Creating ad hoc markets is also

not very practical as there is no consistency in these harvests and such markets themselves require more human resources.
Fruits have a higher processing capability and the processed fruit can be kept for longer. This opens up a new window for marketing Auroville-produced processed fruit within and outside Auroville.
If more and more farms turn towards fruit production, we will not only meet Auroville's needs but will be easily able to absorb the excess through processing which can be kept for Auroville or markets outside.

3. Land use

The five most consumed vegetables in Auroville are- Potato, Tomato, Onion, Cauliflower and Carrot.
None of them can grow in Auroville. This means that till this doesn't change, Auroville will always have to buy these vegetables from outside. Or invest in lands outside Auroville in the hills or greenhouses.
In any case, what then is the use of the farmland of Auroville?
This land and climate offer a unique combination that suits a variety of fruit trees- Mango, Jackfruit, Chickoo, Coconut, Ramphal, Papaya, Banana, Citrus, Guava etc.
We feel that developing these orchards is the most optimum use for horticulture farms.

4. Labour

Vegetable cultivation is labour-intensive as it requires regular field preparation, weeding, and natural sprays to prevent pests and diseases. Even the harvest is daily.
At least 60-70% of the production cost of the vegetables is labour costs.
Besides the fact that vegetable production by itself is not economically sustainable, the high dependence on labour is concerning as there are fewer and fewer people willing to work in the fields.
The labour wages are also shooting up and even with that, it is hard to find committed people to do back-breaking work day after day. This is true for the Auroville community and also the villages around. In this case, how can we sustain our vegetable production in terms of its labour needs and its low economic returns?
Across the world, vegetable production is subsidized by other farm activities like livestock, fruits, agroforestry, educational programs and farm stays. Or the price of vegetables themselves is quite high in the market.
We are bound by the Auroville economy and do not intend to sell vegetables that nobody can afford.
Hence, fruit cultivation which is less labour-intensive (eventually and in the long term) is a potential solution to this problem.

5. Management

Vegetable cultivation requires frequent soil disturbance and we want to move away from having to cultivate our soil through machines as much as possible. Perennial orchards allow us to minimize disturbance to the soil and install more permanent microirrigation systems which also help in water conservation.
The shade of the trees also keeps the soil covered preventing evaporation of soil moisture thereby contributing to the health of the soil.
These perennial orchards can then be used to grow some shade-tolerant crops which are also required in Auroville. We are experimenting with turmeric, ginger, coffee and different varieties of yams.

Having said all this, we are not against vegetable cultivation in Auroville and will not completely stop it. As we plant more fruit trees in areas which are already orchards, the spaces in between will be used for vegetable cultivation in the initial years, till the tree canopies don't shade the fields. This will perhaps increase our vegetable production initially.
However, eventually, we intend to have fruits as our major produce with vegetables being cultivated depending on the resources available on the farm. We feel there is more potential for fruit cultivation and for AuroOrchard which was called 'Orchard' for a reason, this is the next natural step of evolution for the farm. If in the meantime, we receive an indication from the community that we need to grow more vegetables and that Auroville is willing to financially support this activity, we can easily incorporate this aspect into our plans. Our vision is to feed Auroville and we are committed to adapting to Auroville's needs keeping in mind the social, ecological and financial realities of farming.

10. Project Team:



Anshul has a background in soil science, Permaculture design and education. He has been farming in different locations in India since 2014 and at AuroOrchard since 2019. He is now an executive of the farm and is deeply interested in finding a solution for long-term food security for Auroville while developing visions for agriculture of the future. He believes that the mission of AuroOrchard to grow food for Auroville does not restrict itself to quantities but more importantly expands the idea of food for a spiritual community in pursuit of progress and perfection. He believes in action research and finds AuroOrchard well-situated to explore the future of agriculture and the agriculture of the future.

Eric Chakra is a Macintosh specialist (author of the book 'Mon Mac parfait') with an academic and professional background in arts and technology and a long-time practitioner of martial arts and Yoga. When he joined Auroville in 2011, he chose to live in and work with the forest in the green belt. He is a member of Auroville's Forest Group and the Water Group. He volunteers regularly at AuroOrchard, a farm in which he sees exceptional potential, as well as a perfect place for individual and collective work. Providing food of the highest possible value is for him a major responsibility, as 'this high quality is a vital basis for people's health, energy and balance'.





Erik was born and raised in the Democratic Republic of Congo before moving to Belgium. Qualified as a tropical agronomist, he worked for seven years with 'Terre & Humanisme' in France (an international agroecology organisation, created by Pierre Rabhi). Erik also brings his experiences as a project manager in African and Asian settings and as an environmental activist, beekeeper and writer. He has been a valuable member of the AuroOrchard team since 2015, supporting the organic transition and developing our farming practices with his considerable academic, professional and hands-on knowledge and expertise.

Gérard, born in Geneva (Switzerland), came to the Sri Aurobindo Ashram in 1955, at the young age of 23. After a decade of gathering experience in farming in the Himalayan hills, where the Ashram had an orchard farm, the Mother asked him to establish and look after the AuroOrchard farm from the very beginning of Auroville in 1969, with the clear aim of 'feeding Auroville'. For over five decades, Gérard has been dedicated to this goal, building up the farm step by step and seeing it through many changing circumstances, always remaining true to its central vision while keenly following and experimenting with various innovations for better yield and improving the farm's fertility.





Bithi grew up at the Sri Aurobindo Ashram and was asked by the Mother to join Auroville from the very beginning of the international township. She has worked in AuroOrchard alongside Gérard since the early seventies and until very recently looked after the majority of the farm's coordination and administrative tasks, enjoying immense respect from the workforce, as well as from anyone who comes into contact with the farm, not only for her encyclopedic memory but for her skills and vast experience gathered over almost half a century of selfless service, as well as her equanimity and sense of humour which sustains the farm even when faced with challenges.

11. Group approval of project *(e.g. for activities under SAIIER or other Auroville groups or bodies, or initiatives that require permission from Avenir etc.):*

Not required.

12. Other Sources of Funding *(names and amounts already received, or promised)*:

None.

12a. Where else have you applied for funding?

We have applied for a budget to the Auroville Budget Coordination Committee but considering the present situation, any support is unlikely.

PROJECT INFORMATION

13. Aims & objectives of project:

- The objective is to focus on 5 acres every year and re-design them for optimum utilization.

- To design plant successions with tree crops, agroforestry, perennial shade tolerant crops and do crop rotation for long-term crops. Some annuals will be grown in between the young trees in the beginning.

- To design and implement a proper irrigation system acre by acre based on the crop design for that plot.

- To implement cover crops, green manure and other fertility techniques in this area.

- By focusing on 5 acres at a time, we will be able to implement this project in 5 years (25 acres). This will allow us to learn from previous designs and expand our production capacity slowly.

- The overall objective of this project is to optimize the land given to AuroOrchard for production
- To fulfill the needs of the community, of which, fruits are a big part.
- By growing fruits, we can create more value for the farm (as fruits are high value and have better processing potential) which will help to support more human resources on the farm.
- To document the design and learning of this project and share it with other farmers and the bioregion.

14. Description of activities/details of project intervention:

Steps	Year 1 (2024-25)	Year 2 (2025-26)	Year 3 (2026-27)	Year 4 (2027-28)	Year 5 (2028-29)
Design	-Identify priority areas for implementing project (not more than 5 acres) - identify planting design and scheme - feedback on design from experts in/outside AV	- Identify next 5 acres for implementation - identify planting design and scheme - feedback on design from experts in/outside AV	- Identify next 5 acres for implementation - identify planting design and scheme - feedback on design from experts in/outside AV	- Identify next 5 acres for implementation - identify planting design and scheme - feedback on design from experts in/outside AV	- Identify next 5 acres for implementation - identify planting design and scheme - feedback on design from experts in/outside AV
Earthwork	-Clean and prepare field for plantation	-Clean and prepare field for plantation	-Clean and prepare field for plantation	-Clean and prepare field for plantation	-Clean and prepare field for plantation
Water	Install irrigation	-Install irrigation -Repair previous system if needed	-Install irrigation -Repair previous system if needed	-Install irrigation -Repair previous system if needed	-Install irrigation -Repair previous system if needed
Planting	-Plant the first crop along with ground cover - Replace cover crop, ground cover if needed -Add additional crops as and when needed	-Plant the first crop along with ground cover - Replace cover crop, ground cover if needed -Add additional crops as and when needed	-Plant the first crop along with ground cover - Replace cover crop, ground cover if needed -Add additional crops as and when needed - Replace crops in Y1 orchards if needed	-Plant the first crop along with ground cover - Replace cover crop, ground cover if needed -Add additional crops as and when needed - Replace crops in Y1/Y2 orchards if needed	-Plant the first crop along with ground cover - Replace cover crop, ground cover if needed -Add additional crops as and when needed - Replace crops in Y1/Y2/Y3 orchards if needed
Fertility	-Compost every moth and weekly probiotic spray -Plant biomass trees for chop & drop	-Compost every moth and weekly probiotic spray -Plant biomass trees for chop & drop	-Compost every moth and weekly probiotic spray -Plant biomass trees for chop & drop	-Compost every moth and weekly probiotic spray -Plant biomass trees for chop & drop	-Compost every moth and weekly probiotic spray -Plant biomass trees for chop & drop
Care/ Maintenance	-Make sure irrigation is working -Weeding till crop is established	-Make sure irrigation is working -Weeding till crop is established - Pruning of Y1 orchard - Y1 orchard chop & drop - Timely harvest	-Make sure irrigation is working -Weeding till crop is established - Pruning of previous orchard - Chop & drop - Timely harvest	-Make sure irrigation is working -Weeding till crop is established - Pruning of previous orchard - Chop & drop - Timely harvest	-Make sure irrigation is working -Weeding till crop is established - Pruning of previous orchard - Chop & drop - Timely harvest
Documentation	- Soil test -Put together the steps involved and the final outcome -Evaluate the implementation	- Soil test of implemented orchards -Put together the steps involved and the final outcome -Evaluate the implementation and progress from previous year	- Soil test of all implemented orchards -Put together the steps involved and the final outcome -Evaluate the implementation and progress from previous years	- Soil test of all implemented orchards -Put together the steps involved and the final outcome -Evaluate the implementation and progress from previous years	- Soil test of all implemented orchards -Put together the steps involved and the final outcome -Evaluate the implementation and progress from previous years

15. Who will be the specific beneficiaries?

- The community of Auroville- for having access to organically and home-grown fruit.
- Other farms are welcome to visit and learn from the experience of AuroOrchard to shift majorly to fruit production. The techniques of tree care and management, irrigation, and soil cover management will all be freely shared with farmers of Auroville.
- The methods, techniques and experiences will also be available to other farmers around Auroville through educational courses.
- The land of AuroOrchard will benefit from a perennial cover and no tilling.
- Water will be conserved as better irrigation systems will be possible to implement as well as tree cover will keep the soil protected from the Sun and help in rainwater infiltration.
- The model of integrated cultivation which is also economically sustainable will be useful to encourage young people to work on the farms which is a critical need for agriculture today.

16. What is the link to other Auroville activities?

This work offers a contributory step to a more resilient and self-sustaining food production for Auroville. By demonstrating a positive change in the farm at a time when the entire farming system is being seriously questioned in Auroville, there could be an opening for a new way of planning for existing and new farms. We have always shared all the documentation and learning with other farms and will continue to do so if they are interested in working together for a change in the food production system of Auroville.

Our additional production is immediately connected to the community, via PTDC, Solar Kitchen, Foodlink and with our direct customers. As a farm which is already producing more than half of the fruits and vegetables of Auroville, we can develop and inspire a shift to perennial cropping systems which are not only more sensible for our consumption context but also more ecologically robust. We have the skills and experience in allied agriculture practices like Permaculture, Agroecology and Syntropic farming to design, implement, monitor, evaluate and share this work.

This work also opens up opportunities for agriculture education in Auroville which is a big requirement of our times as the number of people in agriculture is going down across the world.
This project has the potential to engage the youth of Auroville and the bioregion in the research and implementation of the project.

Overall, this project is linked to the ideals of Auroville of research, education and innovation for the future.

17. Is the Auroville community waiting for the results of this project? What are the indications of this?
(Please provide emails from related groups that give reasons for considered support. To be included as an addendum, cut and paste, at the end of this format.)

The Mother gave instructions to Gerard to feed Auroville. some 50 years later, food & water security remains a crucial failing which threatens the progress of our collective work. The interest in and need for innovation in AV farms has been known and called for, for many years. Food and farming remain a big question mark for the growing city. An estimate based on a survey some 5 years ago is that Auroville consumes only about 20% of its food from the farms. For the population of Auroville to go from 2500 to the planned 50,000, we need not only to increase our food production capacity but also consider how we can close the gap between what Auroville needs and what we can grow. This is one thing that the Residents' Assembly and the Governing Board agree on- to make Auroville self-sufficient in food. This starts with making our farms optimum for production and more efficient while keeping all the ecological and ethical foundations in consideration.

The addendum includes the numbers from the recent research done by Anshul and Madhuri on the requirement for different food units in Auroville.

18. How will the project be implemented?

Answer the same as Q.14.

We have already started the design work for the first 5 acres and can start implementing the design for the first acre as soon as we have the funds.

19. Evaluation (if applicable):

- Comparison of land use before and after
- Comparison of overall production and productivity per acre
- Annual soil tests to see the changes in soil nutrition and health
- We are also open to peer feedback and evaluation from other farms
- A long-term evaluation factor for this project would be better economic returns which will support a bigger team to manage this project and the new orchards.

20. Budget Table (NB EXCEL spreadsheet is *a separate file*)

21. Budget Table Explained: Here below please provide narrative explanation/description of items per line in budget request.

No.	***Item Name***	***Intended use (by whom, for what purpose)***
1	Design & Consultation	*This requires research and we have access to a consultant who has experience with the Tamil Nadu Agriculture University, Coimbatore and now has a private consultancy. He has been working in different places in India and has been very helpful for us in our previous projects. This part of funding will be useful to contract his services where needed.* *Also, a part of this fund will help support a team member (Aurovilian or volunteer) to do the documentation work for the entire project.*
2	Documentation and Communication	*We need someone dedicated to documenting the progress of this project and help us develop reports that can be shared back to the donors as well as the farmers and wider community of Auroville. We feel this will help in widening the scope of learning from this project. We will put out a call for an Aurovilian or a volunteer interested in doing this work.*
3	Filed Preparation	*In the beginning of the project, the land requires clearing and re-shaping based on the design. This is done either with JCBs or manual labour is time and money consuming. The intention is to do this once properly so that it doesn't need to be done again. This part of the budget also includes the funds needed to make beds, holes for the plants.*
3	Grafting on existing trees	*Some of the old trees are not productive anymore or of varieties that are not marketable within our outside Auroville. We are carefully granfting on these trees desired varieties. We have started with 10 such graftings on 10 very old old wild mango trees. The success rate has been 100% and this has encouraged us to continue experimenting with this. By next year, we hope to learn this skill ourselves so that we can help other farms in and around Auroville for this.*
4	Sapling preparation/purchase	*We are now focusing on planting saplings of only good native varieties prepared carefully by reputed nurseries While these saplings are more costly than local nurseries, the plants are authentic and In good health which makes a huge difference in their long term health and productivity.*
5	Drip irrigation setup	*For permanent irrigation, we have learnt that drip pipes are more efficient than sprinklers. These drip pipes can last several years if maintained properly especially under the shade of trees. This part of the budget is the cost of plumbing etc. to set up the drip pipes.*

6	Labour for planting, care and maintenance	*This is the cost of planting, regular composting, initial weeding, sowing cover crops and regular care of the orchard after planting. Over the years we anticipate that this cost will be higher than what is mentioned here but we will plan in a way that the orchard starts paying for its maintenance as soon as within a year after which it will be completely self-sustainable.*

22. Name of project holder(s) responsible for information given in this application, including budget request.

Anshul Aggarwal

23. Name of person who will take the responsibility to submit a final report (and progress reports or updates *as specified by the donors)* for any and all grant(s) received for this project.

Anshul Aggarwal

If you have any questions or need further information or assistance please write to us at pcg@auroville.org.in

Addendum

This is the first-ever comprehensive list of food requirements from different Auroville eateries including big community kitchen- Solar Kitchen and community distribution centres- PTDC and PTPS. This gives us an idea of the high demand for fruit which is currently not being met by the Auroville farms.

			TOTAL				Comments
Category	**Item**	**Units**	**Daily need**	**Weekly**	**Monthly need**	**Yearly need**	**Sadhana,TON,JOY-FOOD,AUROAMRITHAM,SOLAR-KITCHEN, VC, PTDC, La Terrace, Gratitude farms**
Dairy	MILK	l.		990			VC:20 l/day from ANPRNA/BRHSPTI, SK:750l/wk, LT:90l/wk from BRHSPT
Poultry	EGG	no.		2630			VC: 600 #/wk. from AO, SK:2000/wk, LT:30/wk, from AO
Poultry	Egg samll	no.					
Vegetables	Ash Gourd	kg		120			SK:100kg/wk(alt.wk.), PTDC:7kg/wk
Vegetables	Banana Cooking	kg		120			SK:275#wk(alt.wk), PTDC:70kg/wk
Vegetables	Banana flower	kg		1			Sadhana can use if made ready to use, post cleaning , PTDC:1kg/wk
Vegetables	Banana stem	kg					
Vegetables	Brinjal	kg		120			VC:110kg/mo.from AO. SK: 50kg/wk, LT:5kg/wk from AO
Vegetables	Brinjal Big Black	kg		75			Sadhana finds it too expensive, SK:75kg/wk
Vegetables	Capsicum Green	kg			27		LT:5kg/wk
Vegetables	Capsicum Small Orange	kg			4		
Vegetables	Capsicum Red,orange & yellow	kg			8		
Vegetables	Corn Baby	kg					
Vegetables	Corn Maize	kg					
Vegetables	Corn Sweet	kg		25			Sadhana 20kg/mo. throughout the year, SK: 150 no./wk
Vegetables	Drumstick	kg			15		VC: 6 kg /wk but only naatu variety- not hybrid
Vegetables	Ladies Finger	kg		145			VC: 28 kg/mo. from AO, SK:120kg/wk (alt.wk.), GF:10kg/wk
Vegetables	Mushroom (bulk)	kg			12		VC: 1.2 kg/mo. - only milky, Sadhana may take a few time, LT:2kg/wk wants only button
Vegetables	Onion Green / Spring	kg		5.5			LT:0.5kg/wk
Vegetables	Tomato	kg		85			Sadhana 100kg/mo. throughout the year, LT:60kg/wk only jam tmt
Vegetables	Tomato Cherry	kg					
Vegetables	Tomato Country	kg		150			VC: 400 kg/mo. month if @20rs./kg and if quality is good, SK:50kg/wk

Vegetables	Tomato Premium	kg		150			SK:150 kg/wk
Root	Beetroot	kg		155			Sadhana 20kg/mo. throughout the year, SK:150kg/wk
Root	Carrot	kg		160			Sadhana 30kg/mo. throughout the year, SK:150kg/wk
Root	Jicama	kg			1		
Root	Radish small Red (table)	kg			12		
Root	Radish Red	kg			12		
Root	Radish White	kg			70		Sadhana 3kg/mo. throughout the year, LT:10 kg/wk
Root	Sweet potato	kg		70			SK:50kg/wk
Root	Tapioca	kg		70			SK:50kg/wk
Root	Yam	kg			44		Sadhana may take occasionaly
Gourd	Bitter Gourd	kg		25			Sadhana may take occasionaly, SK:20kg/wk(alt.wk.)
Gourd	Cucumber A	kg		430			VC-40kg/mo. AO/BRHSPTI, Sadhana 15kg/mo. throughout the year, SK:400kg/wk, GF:5kg/wk
Gourd	Cucumber B	kg		5			LT:5kg/wk, brown is okay but tender
Gourd	Lauki	kg		147			VC-40kg/mo. AO/BRHSPTI, SK:120kg/wk(alt.wk.), LT:3kg/wk, GF:4kg/wk
Gourd	Pumpkin Big	kg		78			VC-40kg/mo. AO/BRHSPTI/SHMBLA, SK:50kg/wk, LT:8kg/wk-big round, GF:5kg/wk
Gourd	Pumpkin Sliced	kg					
Gourd	Pumpkin Small	kg			24		
Gourd	Ridge Gourd	kg		50			SK:40kg/wk(alt.wk), GF:5kg/wk
Gourd	Snake Gourd	kg		138			SK:120kg/wk(alt.wk.)-alt. with lauki, GF:3kg/wk
Beans	Beans Avarakai	kg		15			PTDC:10kg/wk
Beans	Beans Cluster & Cows	kg		131			SK:120kg/wk(alt.wk.), PTDC:1 kg/wk
Beans	Beans Long	kg		110			SK:70kg/wk, PTDC:25kg/wk
Beans	Beans French	kg		100			PTDC:100kg/mo from Ooty/pdy
Beans	Beans Winged	kg		30			VC-16 kg/mo. AO, BRHSPT, SHMBLA, PTDC:20kg/wk, LT:5kg/wk
Greens	Spinach Basella	kg			62		VC-45 kg/mo. AO, LT:3kg/wk
Greens	Spinach Chicken	kg			5		
Greens	Spinach Drumstick	kg		42			SK:40kg/wk.
Greens	Spinach Kirai & Thandu	kg		120			VC-30kg/mo. AO, BRHSPT, SK:100kg/mo.-without roots, LT:10kg/wk-tender/no soil

Greens	Spinach NZ/Brazilian & Palak	kg			5		
Greens	Spinach Rosella	kg			25		SK:20kg/mo.
Salad	Lettuce & salad	kg			23		LT:15kg/wk
Salad	Micro Green	kg			3		VC-3kg/mo. SHMBLA
Salad	Salad & Rucola	kg		7.5			VC-rucola 0.5 kg/mo.,LT:5kg/wk
Spice	Chilli Green	kg		7.5			Sk:5kg/wk, GF:2kg/wk, LT:0.5kg/wk
Spice	Mango Ginger	kg			28		Sadhana can use 2kg/wk (need sample for tea), SK:20kg/mo.
Spice	CHILLY DRY	kg			10.25		SK:10kg/mo. well dried
Spice	Turmeric Whole	kg				50	Sadhana can use if powdered, SK:40kg/yr-well dried
Herb	Basil Bundle	kg		14.5			SK:4kg/wk, PTDC:7kg/wk, LT:0.5kg/wk
Herb	Basil Loose	kg			1.5		
Herb	Celery	kg			4.5		LT:1kg/wk
Herb	Chiness leek	kg		2.5			SK:2kg/wk, LT:0.5kg/wk
Herb	Coriander Leaf	kg		8			Sadhana 4kg/mo. throughout the year, SK:4kg/wk
Herb	Curry Leaf	kg		5.5			SK:5kg/wk, LT:0.5kg/wk
Herb	Dill & Fennal	kg					
Herb	Lemon grasss	kg		4			SK:2kg/wk
Herb	Mint Fresh	kg		7			SK:5kg/wk-large leaves, easy to process, LT:1kg/wk
Herb	parseley	kg		20.5			SK:20kg/wk, LT:0.5kg/wk
Nuts & Seeds	Peanut fresh	kg		9			SK:8kg/wk
Nuts & Seeds	PEANUTS “A”	kg			40		Sadhana 40kg/mo. (currently only half comes from PTDC (ayarpadi)
Nuts & Seeds	PEANUTS “B”	kg					
Nuts & Seeds	SESAME (WHITE)	kg			41		VC-5 kg/mo. if good quality and better price, SK:30kg/mo.
Nuts & Seeds	SESAME (BLACK)	kg			30		SK:30kg/mo.
Fruits	Amla	kg		17			Sk:10kg/wk, PTDC:7kg/wk
Fruits	Avocado	kg		120			VC-45kg/mo. AO, PTDC:100kg/wk
Fruits	Bael Fruit	kg		25			PTDC:20kg/wk
Fruits	Banana Green	kg		35			VC-90kg/mo. BRHSPTI, PTDC:10kg/wk
Fruits	Banana Red	kg		75			PTDC:300kg/mo.
Fruits	Banana Yellow	kg		705			Karpurvalli 200 kg for Steffen- commercial use, VC-20kg/mo. ANPRNA, TON-600kg/mo., Sadhana 500kg/mo., SK:500pc/day except school holidays, PTDC:300kg/wk

Fruits	Cheese/Egg Fruit	kg			12		
Fruits	Chikoo	kg			32		VC can take if quality good
Fruits	Coconut Dry	kg		110			10 kg for Steffen- dark brown commercial use, VC-70kg/mo. AO, SK:200pc/wk, LT:3kg/wk big
	Coconut tender						
Fruits	Grapefruit	kg			310		Sadhana 300kg/mo. throughout the year
Fruits	Guava	kg			80		VC-50kg/mo. if good quality and size and better price, Sadhana 20kg/mo.
Fruits	Jackfruit Loose	kg			42		
Fruits	Kumquat	kg					
Fruits	Lemon Big	kg		20			SK:20kg/wk
Fruits	Lemon Big Seedless	kg					
Fruits	Lime	kg			127		VC-120kg/mo. AO, LT:5kg/wk, GF:2 kg/wk
Fruits	Mango A	kg				3800	500 kg for Steffen (Banganapalli -commercial use), Sadhana 200kg/mo., SK:150kg/wk-all ripe at the same time, LT:60kg/wk no puchhi
Fruits	Mango B	kg				5400	VC-60 kg/mo. AO, TON-300kg/mo., Sadhana 80kg/mo.
Fruits	Mango C	kg				1104	Sadhana 80kg/mo.
Fruits	Mango Green	kg			170		Sadhana 80kg/mo., SK:60kg/mo.
Fruits	Nartanga	kg			5		Sadhana 5kg/mo.
Fruits	Papaya	kg			190		VC-40 kg/mo. ARGRN, TON-100kg/mo., LT:30kg/wk-firm and ripe for salad, not soft
Fruits	Papaya Green	kg			212		Sadhana 200kg/mo.
Fruits	Passion Fruit Sour	kg			10		
Fruits	Passion Fruit Sweet	kg		35			SK:30kg/wk
Fruits	Pineapple	kg			285		VC-200 kg/mo. if good quality, taste and offered at better price (no more than 65 rs.), LT:60kg/wk
Fruits	Pomelo	kg			130		Sadhana 100kg/mo.
Fruits	Ramphal	kg			54		VC-10kg/mo. AO. Suggests to try Red ramphal variety., Sadhana 20kg/mo.
Fruits	Rosella Seeded	kg			20		Sadhana 20kg/mo.
Fruits	Rosella Whole	kg			40		VC-40kg/mo. Anprna
Fruits	Sitaphal / Custard Apple	kg			28		
Fruits	Soursop	kg			50		Sadhana 25kg/mo.
Fruits	Starfruit	kg			17		
Fruits	Sweet Melon	kg			24		
Fruits	Tamarind Cleaned	kg				560	VC-20 kg/mo. Annapurna, Sadhana 10kg/mo., SK:200kg/yr

Fruits	Tamarind Whole	kg			2		
Fruits	Tangerine	kg			12		
Fruits	Watermelon	kg		575			VC-750 kg/mo. if quality, ripeness is good and better price is offered., SK:100pc./wk, LT:100kg/wk, Sadhana:300kg/mo. all year
Grains	CAMBU	kg					
Grains	CAMBU FLOUR	kg					
Grains	CAMBU FLOUR sieved	kg					
Grains	CORN RAVA	kg			5		
Grains	CORN WHOLE	kg					
Grains	RAGI (WHOLE)	kg			4		
Grains	RAGI FLOUR	kg			60		VC-5 kg/mo. if offered at better price, Sadhana 20kg/mo., SK:20kg/mo.
Grains	RAGI FLOUR(sieved)	kg					
Grains	KUDRAVALLI	kg					
Grains	KUDRAVALLI (rava)	kg			10		Sadhana 10kg/mo.
Grains	SAMAI	kg					
Grains	SAMAI RAVA	kg			12		VC- 2 kg/mo. Anprna, Sadhana 10kg/mo.
Grains	TENNAI	kg					
Grains	TENNAI (clean)	kg			11.5		VC- 1.5 kg/mo. Anprna, Sadhana 10kg/mo.
Grains	VARAGU (POLISHED)	kg			8		VC- 8 kg/mo. Anprna
Grains	VARAGU unpolished	kg				1700	SK:1700kg/yr
Grains	VARAGU FLOUR	kg			40		
Grains	RICE BOILED	kg				4950	SK:4950kg/yr
Grains	RICE BROWN (COMPLETE)	kg				2700	VC-30 kg/mo. from Annapurna, SK:2310kg/yr
Grains	RICE RAW	kg			80		Sadhana 80kg/mo.
Grains	RICE RED	kg			6	1500	VC - 6 kg per mo. from Annapurna, SK:1400kg/yr
Grains	RICE IDLY (ponnumani)	kg				1200	SK:920kg/yr
Grains	BOILED RICE BROKEN	kg					
Grains	BROWN RICE BROKEN	kg					
Grains	RAW RICE BROKEN	kg					
Grains	RED RICE BROKEN	kg			80		VC can take 30 kg per month from Annapurna. If not available broken, they can take full., LT:50kg/wk

Grains	BROWN RICE FLOUR	kg					
Grains	RED RICE FLOUR	kg					
Grains	RAW RICE FLOUR	kg				480	Sk:480kg/yr-supply10kg/wk
Grains	BOILED RICE FLOUR	kg					
Pulses	MUNG (WHOLE) green gram	kg				480	Sk:480kg/yr
Pulses	MOTH BEANS	kg			20		
Pulses	SOYA BEANS	kg					Sadhana can use
Pulses	TOOR DAL	kg				1560	SK:1560/yr-unpolished and clean
Pulses	ULUNDU (WHOLE)	kg		1585			VC can take 40 kg/month- only white variety from Annapurna, SK:1560/wk-skin free and full, LT:5kg/wk, washes/husked
Pulses	ULUNDU (SPLIT)	kg				360	SK: 240kg/yr-skin free for saute purpose
Pulses	ULUNDU (white SPLIT)	kg			5		
Pulses	KARAMANI	kg			1		VC can take 1 kg per month only from annapurna
Pulses	KARAMANI small	kg			10		
Pulses	WHITE BEAN	kg		240			Sk:240kg/wk
Pulses	WHITE BEAN	kg					
Pulses	Black Eyed Peas	kg					
Pulses	Lab lab bean	kg					
	Mustard	kg			3		Sadhana 3kg/mo.