



Doon university (School of Environment and Natural Resources)

Doubling Farmers Income Through Integrated and Collective Farming  
Approach in Uttarakhand

Quarterly Report

[Fourth] Quarter – 1<sup>st</sup> April 2021– 31<sup>st</sup> June, 2021

Submission Date: 29<sup>th</sup> July 2021

**Activity Start Date and End Date: 1<sup>st</sup> April 2021 – 31<sup>st</sup> June 2021.**

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Submitted by: Doon University School of Environment and Natural Resources

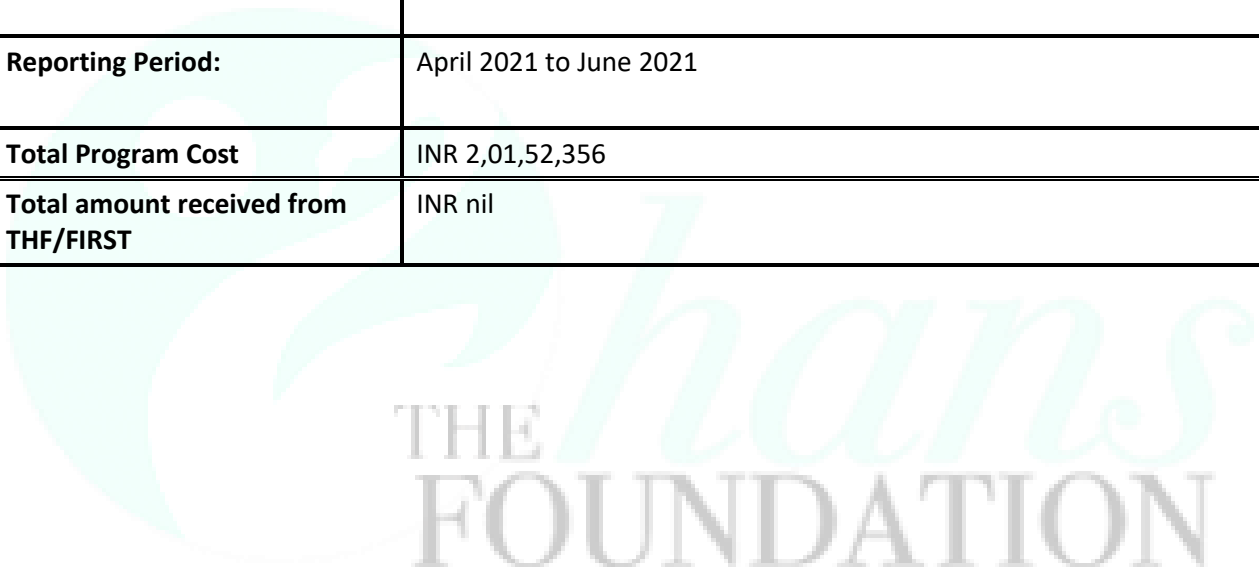
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Program Overview:

<b>Program Name:</b>	Doubling farmer's income through integrated and collective farming approach in Uttarakhand
<b>Activity Start Date And End Date: (from first allocation of funds)</b>	1 <sup>st</sup> July'2020 to 31 <sup>st</sup> March 2023
<b>Name of Joint Implementing Partner: (if any, this is an org. that may be helping you implement)</b>	Department of Horticulture, Department of Agriculture Uttarakhand Government
<b>Geographic Coverage (State, Districts, Villages)</b>	State – Uttarakhand District – Tehri-Garhwal, Almora, Pithoragarh, Champawat Block – Narendranagar, Bhilangana, Sult, Dwarahaat, Syeldey, Munakot, Didihaat, kanalicheena, Lohaghaat Villages (Nos.) – 95
<b>Reporting Period:</b>	April 2021 to June 2021
<b>Total Program Cost</b>	INR 2,01,52,356
<b>Total amount received from THF/FIRST</b>	INR nil


  
 THE *Shans* FOUNDATION

## 1. Brief of Work Done in 4<sup>th</sup> Quarter:

As this project is claiming the capital cost of the project such as seeds of vegetables, farm machinery, planting material of spices and fruit seedlings. Hence our staff members were involved in travelling to the beneficiary villages and collecting the documents of farmers, for submitting their documents for making budgetary provisions for members of all the farmer producer companies in Almora, Pithoragarh, Tehri-Garhwal and Champawat. This data is mandatory to be submitted in



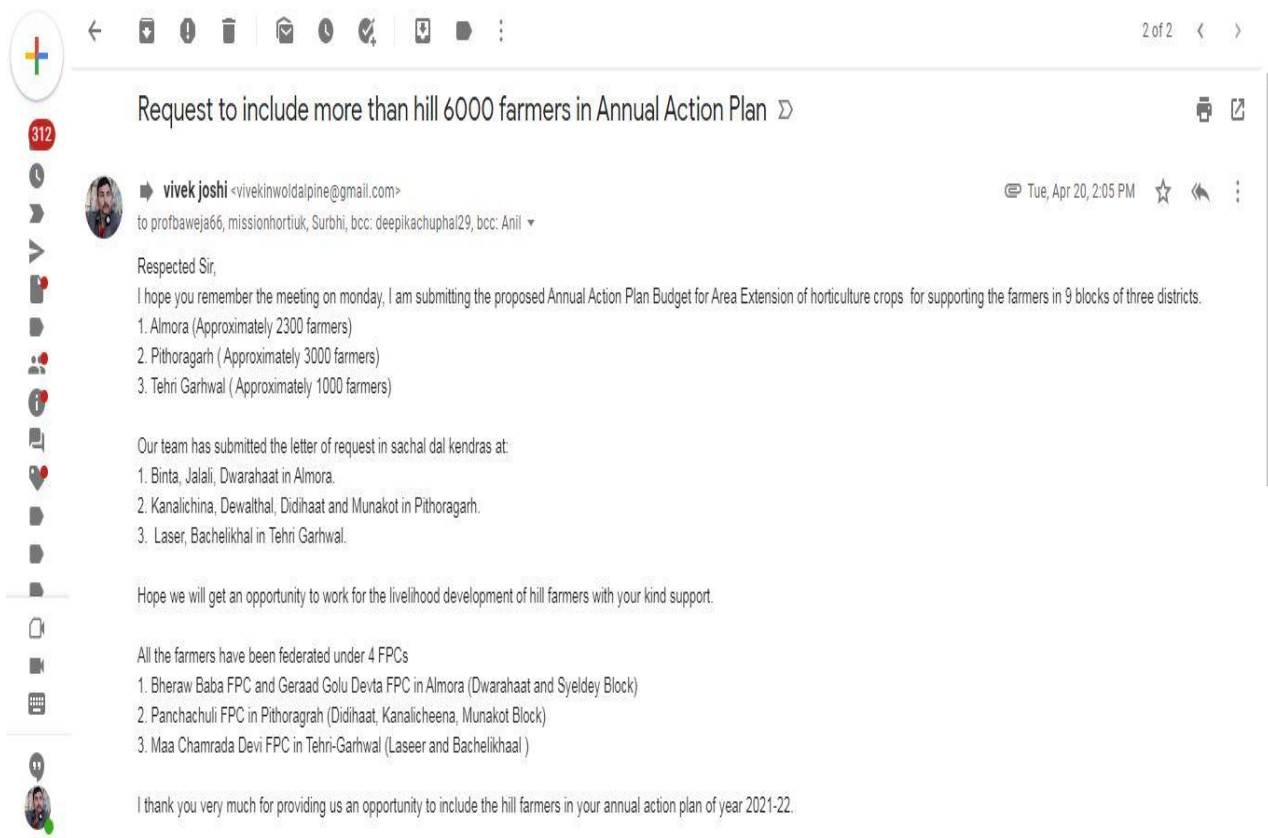
two copies at the block unit office of horticulture department which is known as “**Sachala Daal Kendras**”. Photocopy of Aadhar card copy of farmers, their passport size photograph, an attested copy of their land records and a copy of front page of bank passbook was collected from each village during the fourth quarter. The hard copies were submitted to the “**Sachala Daal Kendras**” and a copy of letter of receiving of documents was taken from respective officer for our records.

Apart from this letter of request to support the farmer members of Farmer Producer Companies to Director horticulture office, Uttarakhand, District horticulture office in district headquarters in all four districts.

A plan of area extension was developed and attached with all the letteres so that increased area suggested by farmers for cultivation of vegetables, spices, flowers, fruit plants can be included in annual action plan 2021-22 of the respective district.

As the Director Horticulture Uttarakhand have already issued letter in April 2019 in favour of members of Farmer Producer Companies hence and proper budgetry allocations could be made of each individual species of fruit crop, treditional and hybrid vegetable seed varieties in the district annual budget of government for horticulture department.

Our team members visited 9 unit offices and 4 district head quarters of horticulture department



The screenshot shows an email interface with a title bar at the top containing navigation icons and a '2 of 2' indicator. The email title is 'Request to include more than hill 6000 farmers in Annual Action Plan'. The sender is 'vivek joshi <vivekinwoldalpine@gmail.com>' with a timestamp of 'Tue, Apr 20, 2:05 PM'. The recipient list includes 'to profbaweja66, missionhortiuk, Surbhi, bcc: deepikachuphal29, bcc: Anil'. The email body contains the following text:

Respected Sir,  
I hope you remember the meeting on monday, I am submitting the proposed Annual Action Plan Budget for Area Extension of horticulture crops for supporting the farmers in 9 blocks of three districts.

1. Almora (Approximately 2300 farmers)
2. Pithoragarh ( Approximately 3000 farmers)
3. Tehri Garhwal ( Approximately 1000 farmers)

Our team has submitted the letter of request in sachal dal kendras at:

1. Binta, Jalali, Dwarahaat in Almora.
2. Kanalichina, Dewalthal, Didihaat and Munakot in Pithoragarh.
3. Laser, Bachelkhal in Tehri Garhwal.

Hope we will get an opportunity to work for the livelihood development of hill farmers with your kind support.

All the farmers have been federated under 4 FPCs

1. Bheraw Baba FPC and Geraad Golu Devta FPC in Almora (Dwarahaat and Syeldey Block)
2. Panchachuli FPC in Pithoragrah (Didihaat, Kanalicheena, Munakot Block)
3. Maa Chamrada Devi FPC in Tehri-Garhwal (Laseer and Bachelikhaal )

I thank you very much for providing us an opportunity to include the hill farmers in your annual action plan of year 2021-22.

for this activity.

A meeting was also conducted in person with Director Horticulture Uttarakhand to provide support to more than 6000 farmers of four Farmer Producer Companies. It was decided in the meeting that Director Horticulture Uttarakhand will provide a letter of support to the members of Farmer Producer Companies, supporting them not only through “Horticulture Mission for North

East and Himalayan States” a central government scheme but also help the farmers through various schemes of department at state and district level.

A screen shot of a single page of Annual Action Plan proposed by us for the budgetary provision for farmers which was submitted to “*Sachala Daal Kendras*” and district horticulture office is being displayed below.

Name of Cluster	Components	Unit/Ha.	Rate of Assistance	Proposed AAP 2021-22															
				General				SC				ST				Total Rs in Lakh			
				Physical		Financial Outlay		Physical		Financial Outlay		Physical		Financial Outlay		Physical		Financial Outlay	
				target				target				target				target			
					Qpl Share%	State Share%	Total %		Qpl Share	State Share	Total		Qpl Share	State Share	Total		Qpl Share	State Share	Total
B2.	Establishment of new gardens (area expansion)																		
i.	Fruit Crops (for a max. Area of 4 ha./ beneficiary 1st year)																		
(i)	cost intensive crops																		
a.	Kiwi- without integration	Ha.																	
b.	Kiwi-integrated package with drip irrigation and trills	Ha.	1.2	4	4.320	0.480	4.8	4	4.32	0.48	4.8			8	8.64	0.96	9.60		
d.	Papaya-(75:25) without integration	Ha.	0.225	2	0.405	0.045	0.45	1	0.2025	0.0225	0.225			3	0.6075	0.0675	0.68		
	Total																10.28		
(i)	High Density Planting fruits (60:20:20) with integration																		
a	Guava	Ha.	0.300	3	0.810	0.090	0.9	2	0.54	0.06	0.6			5	1.350	0.150	1.50		
b	Pomegranate	Ha.	0.300	3	0.810	0.090	0.9	2	0.54	0.06	0.6			5	1.350	0.150	1.50		
	Total																3.00		
(ii)	Normal spacing (60:20:20) without integration																		
d.	Citrus	Ha.	1.200	2	2.160	0.240	2.4	1	1.08	0.12	1.2			3	3.240	0.360	3.60		
g.	Peach	Ha.	1.200	2	2.160	0.240	2.4	1	1.08	0.12	1.2			3	3.240	0.360	3.60		

Four such plans were developed by the senior members of the project team in 4rt quarter based on the feedback of farmers from different clusters.

- A total budget of 45 lakh 55 thousand is proposed for members Bheraw Baba Farmer Producer Company which is working in *Syeldey* block of district Almora. This FPC has a total member ship of 1253 farmers.
- A total budget of 47 lakh 68 thousand is proposed for members of Geraad Golu Devta Farmer Producer Company. This FPC is active in *Dwarahhat* block of District Almora on the date of submitting the document approximately 2504 farmers have joined the FPC.

- A total budget of 77 Lakh 95 thousand is being proposed for the members of Maa Chamrada Devi Farmer Producer Company, which is active in *Narendernagar* block of district Tehri-Garhwal. This company has a membership of approximately 1500 farmers but last year due to corona and non-supportive behavior of district horticulture officer only 358 farmers got support from government schemes. This year proper liaising has been done with District Horticulture Office, and same has also been informed to Director Horticulture Office Uttarakhand. A letter of support have been provided to us by Director Horticulture Office Uttarakhand hence area has been increased in sections of fruit crops, vegetables, spices etc.
- A total budget of 1 caror 49 Lakh 50 thousand has been proposed for the members of Panchachuli Farmer Producer Company. This company has a total strength of 3156 farmers and is active in three blocks of district Pithoragarh. Hence an enhanced budget is being proposed for the farmers associated with this company.
- A total budget of 3 Caror 20 Lakh 63 Thousand have been proposed to central government through the district, director horticulture office Uttarakhand, for support of 8413 farmers spared over 100 villages 9 blocks and 4 districts.

## 2. Nursery development, protection work

Team of farmers and project volunteers was made in all 26 villages which were supposed to supply the planting material to the about 70 villages out of total 100 villages in 4<sup>th</sup> quarter



Proper weeding, mulching, irrigation was provided to each nursery bed in all the locations. Project volunteers provided services to farmers for proper management of nursery and maintaining the man days work which were decided during the training sessions in 3<sup>rd</sup> quarter. Record of expenses was kept so that at the time of analysis of increase in farmer's income through the intervention of this project accurate data could be collected and analyzed.

Our team also visited several locations to check the progress of work in the month of April 2021. But due to un-expected lockdown which started from last week of April 2021 till June third week our team could not manage to provide planting material from nurseries to 100 villages as scheduled.

Due to the strict government rules all transport mode was immediately halt in all districts. Still our team managed to provide planting material to about 52 villages in all four districts. Till this time funds were not released from RIST, and the charges of hiring vehicle for transportation of crop also increased as owners of vehicles charged more than double prices for transport of planting material to chosen villages inside each cluster.



Proper care and management of all nursery beds was done, as advised by horticulture scientists of *Krishi Vigyan Kendras* during the training sessions in third quarter. Details were recored of locations where individual species such as:

- Cabbage
- Cauliflower
- Broccoli
- Reddish
- Bell pepper
- French beans
- Tomato
- Coriander
- Chilly
- Turmeric
- Ginger



In the entire nursery locations seedling were being managed properly but in the month of May 2021 in Tehri-Garhwal and Almora district continuously for two days a natural calamity of heavy hail storm occurred. Due to lock-down situation our experts of the project were not able to reach nursery sites and a proper scientific data collection of seedling damage was not collected.



But we called our team members, volunteers, and farmers for ocular estimation of the damage happened to seedlings because of heavy hail storm. After consultation with all effected villages and our team members in those villages we estimated that about 50-60 percent more than half of the seedlings got damaged due to this severe hail storm. A screenshot of Farmer Producer Company Whats-app Group is shown above explaining the damage done by hail storm to our nurseries.

### 3. Distribution of Planting material

After this our team members and farmers did their best to protect the surviving seedlings and which survived after the natural calamity. Our district team, volunteers of the project and farmers started distribution of seedlings starting from mid May till last week of May 2021.



Seedlings were provided to nearest two to three villages from each nursery location so that transplantation of crops can be done in time and rest of the seedlings can be protected, hence enlisting of farmers was done by nursery management team to keep the record of farmers who were planting the seedlings of above explained species on behalf of farmer producer company. This record was necessary because at the time of sale of produce through FPC no dispute may

arise. Till the end of 4<sup>th</sup> quarter the planted material was reached near to maturation stage. In some places issue of pest also was recorded in crop of tomato and cauliflower. But due to the lock down at peak time after 4- 5 weeks of transplant of seedlings when the flowering started proper follow-up of crop for spray of organic pesticides was not possible due to this, many farmers suffered crop damage especially in tomato crop.

Other crops survived well during this period photographs are being displayed below.



We are continuously in touch with all the farmers in all locations and we are expecting our harvest of crops from 2<sup>nd</sup> week of august 2021. Our team members are planning for harvesting the crops, sorting, packaging and grading of material. We have also contacted director cooperative department as their office have contests of some premium buyers of vegetable produces in Uttarakhand. Our team is working on making documents of expenses which will be required at each location for proper harvesting and timely supply of material to the market and premium buyers.



## 4. Summary of Results to Present

Deliverables / Indicators	Base line FY	Annual Target	Q1 FY (July-October)20	Q2 FY (October-December)20	Q3 FY (January-March 21)	Q4 FY (April – June21)	On Target? Y or N	Remark
Orientation Training of Farmer Producer Company at cluster level		1	N	Y	Y	Y	Y	Training on record keeping of harvest will be provided in August 2021 1 <sup>st</sup> quarter of 2 <sup>nd</sup> year of the project
Training on internal management (Business plan, record keeping, legal accounting documentation & taxation, stock, etc.		3	N	Y	Y	Y	Y	Training will be conducted in August 2021 1 <sup>st</sup> quarter of 2 <sup>nd</sup> year of the project
Training on Good Agri/horti practices e.g. field preparation, manuring, pruning, irrigation, pest & disease management, etc.		3	N	Y	N	Y	Y	Activity was postponed to 1 <sup>st</sup> quarter of second year due to Corona lock-down situation
Preparation of Fruit Orchards, and cultivation of aromatic plants (oregano, guava, pomegranate, citrus etc.)		N	Y	N	Y	N	N	Government support was delayed due to lock down and planting material was not available on time
Meetings in villages for identification, preparation of land for cultivation of horticulture crops		36 Villages	Meetings were conducted 364 Villages		Y	Y		Activity was completed in fourth quarter too.
Nursery Preparation		26 Nurseries		Y	Y	N	Y	Nurseries of monsoon vegetables will be prepared in

								1 <sup>st</sup> quarter of 2 <sup>nd</sup> year of the project during August 2021.
Plantation of horticulture crops		90 hectare		Y	Y	Y	Y	As the seedlings got damaged due to severe hail storm the area of cultivation of also reduced due to non availability of seedling for previously targeted area.
Training of farmers for Nursery development techniques		26			Y	N	Y	Trainings will be provided with the support of horticulture scientists for monsoon crops in August 2021.
Harvest of oregano		7.8 hectare		Y	Y	N	Y	2 <sup>nd</sup> harvest of oregano will be done in the month of October 2021 which is 2 <sup>nd</sup> quarter of 2 <sup>nd</sup> year of this project.
Organizing interface with line departments for dovetailing of govt. development schemes & for other convergences		Round the year	Y	Y	Y	Y	Y	This activity is being done at regular basis in all 4 districts
Organizing market follow-up / buy back arrangements visit for strengthening forward market		2		Y		Y	y	Meeting will be arranged in August 2021 in all those

linkage								clusters where the harvest is ready for sale.
Exposure Visit on processing and packaging of value added products (production scheduling, manpower management, job role defining etc.)		1				Y	Y	Activity will be done in the monsoon months during September 2021.



In last week of July and in August 2021 the farmers in clusters where vegetables were ready to harvest contacted Dr. Vivek Joshi for providing market to vegetable produce. Due to the continuous lockdown farmers were unable to sale the produce on their own. Program manager linked the farmers with existing regional market as the project activities of linking the farmers was already initiated in the

previous quarter in the project. Our team at Doon University was in touch with the local traders of vegetables in three districts. In Dwarahat cluster Almora the farm produces were sold in Dwarahat, Ranikhet market. In Pithoragarh district vegetables were sold in Pithoragarh city and Didihaat market. In Tehri Garhwal vegetables were sold in Gaja and Devprayag local market. At this time due to the technical problems in post-facto approval of project at Doon University, project manager was not able to quantify the sale of vegetable produce from each village and the data was only being collected via telephonic conversation with the farmers and volunteers. Farmers have sold French bean, Capsicum, Pumpkin, Cabbage, Cauliflower, Tomato and Chilly. The photographs send by the farmers from different clusters are being displayed in page 14 of this report.



## Changes to Deliverable / Indicators

Deliverable / Indicator	Change	Why change was made	Approved by
1. Trainings & Establishment of Nurseries 2. Cultivation of culinary, herb development of orchards in Private Land and plantation, fruit trees in Van Panchayat	Minor Changes were done in work plan	Due to pandemic situation and lack of funds	Project manager and Project Investigator

