



ANNUAL REPORT

2020-2021



INHERE
Village Chinoni, Post Bhagoti, Ramnagar- Chaukhutia road, Chaukhutia, dist. Almora, Uttarakhand.
PIN- 263656

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1. INHERE offices, campuses and Legal Status

Regd. Office:

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Distt.Almora

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Field Campus

INHERE

Ratkhet (Village Bel)

Block Bhikiyasain,

Distt.Almora,

Uttarakhand

Field Office

INHERE

FarkandeTalli, Block Gairsain,

Post FarkandeTalli, Pin-246428

Distt. Chamoli,Garhwal

Uttarakhand

Field Campus

INHERE

Patalgaon, Block ChaukhutiaBhatoli,

Block Chaukhutia,

Post Bhagoti, Pin-263 656

Distt. Almora,

Uttarakhand

INHERE

Post Masi, Pin-263 658

Distt.Almora,

Uttarakhand

----- LEGAL STATUS -----

Registered under Society Registration Act 1860

Registered under Foreign Contribution Regulation Act (FCRA) 1976,Ministry of Home Affairs, Govt. of India

Registered under 12A of Income Tax Act

Registered under 80G of Income Tax Act

Website: www.inhereindia.in

2. About INHERE: Vision, Mission, Constituency and Thrust Areas

The Institute of Himalayan Environmental Research and Education (INHERE) is a not-for-profit, non political, secular, non-governmental development organization working for development of the mountain people of the Uttarakhand Himalayas. INHERE engages as a research organization, a support organization and a grassroots facilitating and implementing organization. INHERE strives to be an open and a learning organization which believes in transparency within the organization as well as with the communities. It encourages initiatives and experimentation to achieve effectiveness and excellence in its work. INHERE believes in an integrated approach to development encompassing social, economic, human and policy development.



CONSTITUENCY:

The socio economically deprived and marginalized people of the Himalayas, especially the women on whom falls the greater burden.

THRUST

The main areas of work of the organization are:

ENVIRONMENT:

- Protect and conserve environment and natural resources.
- Restore and conserve natural bio-diversity.
- Promote people centered and controlled natural resource management systems and practices.

FOOD AND LIVELIHOOD SECURITY:

- Promote diversified and sustainable organic agriculture system for food security.
- Encourage self-employment and income generation activities through capacity building and skill development.
- Provide access and opportunities for managing natural resources for sustainable livelihoods.

BASIC SOCIAL INFRASTRUCTURE:

- Build models and demonstrate techniques for assured, protected and safe drinking water for domestic use and minor irrigation.
- Promote low cost sanitation and hygiene facilities.
- Promote preventive, curative health care system focusing on traditional system of medicines.

HUMAN RESOURCE DEVELOPMENT

- Encourage and strengthen community-based organizations.
- Improve skill, awareness and knowledge base of the people for self-employment and income generation.
- Support institutions of civil society for more responsible participation.

ADVOCACY

Impact on policymaking bodies, implementing organisations, policy making and administrative institutions through interaction and constructive demonstration

3. Overview

With the coming of 2020-2021, new areas were explored following INHERE's expertise to deliver, diversify and strengthen its work on social development in the Uttarakhand Himalayas.

With the spread of COVID-19 pandemic in the rural areas, INHERE was constrained to operationalize its activities remotely through online interaction and services.

In continuation with the previous conservation, collection and multiplication efforts, the seed bank program was extended and further developed as an open pollinated seed bank headquartered at the Chinoni campus. It also serves as a knowledge centre through display of mountain crop specimen, agriculture tools along with availability of traditional crop varieties for farmers. The seed bank contains a total of 41 variety of seeds ranging from vegetables, cereals, pulses, millets and flowers that are native to the Himalayan region. It has been further linked with Google my Business to promote online visibility to customers. This is in response to increased local demand for traditional seeds of open pollinated variety as well as improved seeds. Further, satellite seed banks were developed in separate clusters for localized availability and strengthening of the central seed bank.



Market search, design upgradation and procurement of Poultry Hatchery Incubator of 200 chicks capacity was done at the Chinoni campus. With the increasing demand, the Hatchery Incubators will be beneficial in making available vaccinated Poultry birds at the local level to Poultry rearers.



Chinmaya Shah of INHERE participated in the 'Mountain Recipe Contest' organized by the FAO of the UN on the occasion of International Mountain Day 2019. The recipe submitted was selected for international publication and published by FAO in 2020. It can be accessed from our website at www.inhereindia.in. The news was published in state level newspapers, online portals and was broadcast on radio.

Two ongoing projects on natural resource based livelihoods and youth in agriculture witnessed a steady progression.

The project supported by National Mission on Himalayan Studies, Ministry of Environment, Forests and Climate Change for development of natural resource based livelihood options and employment for small

holder mountain farmers of Kumaon and Garhwal Himalayas in the area of origination of River Ramganga(West) completed its 3 years. The project was provided extension for a period of 6 months due to interruption in activities due to Covid pandemic and lockdowns and its promising field level results. Building on the activities of the third year, activities were carried out for handholding of field interventions undertaken in agriculture and enterprise development. A farmers cooperative was formed to support the enterprises in administrative, legal, financial and marketing activities. The entrepreneurs were supported in their marketing efforts to further promote and strengthen their entrepreneurial activities.

Work with youth in agriculture facilitating platform building for young farmers and facilitation support for young farmer entrepreneurs continued. In order to promote newer learning opportunities, a Bakery unit was initiated for demonstration and facilitation of interested entrepreneurs. Value added products were developed and local entrepreneurs provided trainings on product making. Field level activities on agriculture allied entrepreneurial opportunities were supported through trainings, workshops and educational visits. The farmers of the Fish Rearing units were supported and linked with the INHERE Fish Rearing unit, Chinoni for information and capacity building.

A proposal submitted by INHERE to IFHE-US Development Fund Grant 2020 titled 'Enabling livelihoods and improved nutrition through micro solar hatchery enterprises for women empowerment and improved nutrition in villages of district Almora, Uttarakhand' was approved. The project interventions required for implementation were listed and are under progress. Market search, selection and design upgradation of Poultry Hatchery Incubators was completed.

A training centre is being developed at the Rathkhet campus to provide support and trainings to farmers on medicinal and aromatic plants cultivation.

Due to the COVID-19 pandemic, the Executive Committee and General Body meetings were organized online for the first time with full participation.

INHERE staff as well as community members participated in learning and sharing activities as always to increase the local knowledge capital.

4. Programmes and Projects

4.1 Biodiversity Conservation

INHERE's work on conserving seeds of agricultural varieties which are heirloom and declining in availability was continued. Seeds were collected from farmers for redistribution and made available to farmers who needed them. Farmers are being encouraged to multiply the seeds for their own use and for greater availability to fellow farmers. The traditional varieties are open pollinated which enables saving and reuse by farmers reducing dependency and cost for a vital input in agriculture. This also increases the risk resilience of farmers.

A total of 41 crop varieties were collected from mountain farmers across 3 districts and 34 villages. This was brought together in a seed bank at Chinoni campus. The collected seeds were graded, tested for germination and made available to farmers for further cultivation and multiplication. The seeds comprised varieties of Millets, Pulses, Oilseeds, Culinary Herbs and Vegetables. This year a total of 1759.88 kg of seed was collected from 38 farmers and 1344.25 kg seed was used by 834 farmers of 36 villages.

Serial No	Type of Seed	Total varieties made available to farmers
1-	Cereals	4
2-	Pulses	8
3-	Millet	7
4-	Spices	6
5-	Vegetable	11
6	Oil Seeds	2
7	Culinary Herbs	3
	Total	41

Sl No	Seed name	Variety	Quantity collected (Kg)	Quantity taken by farmers for multiplication (Kg)	No of farmers	Balance quantity in seed bank (Kg)
Cereals:						
1	Wheat	HS507	71	71	35	0
2	Wheat	HPW549	34	34	15	0
3	Barley	Local	28	8	8	20
4	Wheat	Local	80	5	5	75
Pulses						
5	Black Soya (flat)	Local	25	13	26	12
6	Kulath Red	Local	9	7	14	2
7	Kulath Brown	Local	5.5	3.5	7	2
8	Lentil (Masoor)	Local	12	2	4	10
9	Soyabean	Local	105	8	4	97
10	Black Soya (round)	Local	30	5	3	25
11	Rains	Local	2	0	0	2
12	Rajma	Local	1	0	0	1
Millets:						
13	Chhinna	Local	35	5	30	30
14	Amaranth	Local	20	3	15	17
15	Barnyard Millet	Local	47	10	20	37
16	Kauni	Local	0.100	0	0	0.100
17	Finger Millet	Local	50	0	0	50
18	Bajau	Local	20	0	0	20
Spices:						
19	Fenugreek	Local	10	10	100	0
20	Rai	Local	10	7	70	3
21	Ginger	Rio-de-Geneiro	498	498	67	0
22	Coriander	Local	2	2	20	0
23	Jakhiya	Local	0.500	0.500	10	0
24	Turmeric	Lakhadaung	25	25	0	0
Vegetables:						
25	Pea	Local	12.5	12.5	65	0

26	Radish	Local	2	1.800	60	0.200
27	Potato	KufriJyoti	600	600	57	0
28	Spinach	Local	5	5	50	0
29	Pumpkin	Local round	1	0.200	20	0.800
30	Wax Gourd (Petha)	Local	0.200	0.200	20	0
31	Bottle Gourd	Local long	1	0.200	15	0.800
32	Lady-Finger	Local	3	1	10	2
33	Brinjal	Local	0.130	0.100	10	0.030
34	Tori	Local	0.500	0.100	10	0.400
35	Bitter gourd (Sweet)	Local	0.400	0.100	10	0.300
Oilseed						
36	Flaxseed	Local	3.5	1.5	12	2
37	Til Black	Local	6	2	4	4
Flower:						
38	Sunflower	Local	2	0	0	2
Medicinal Plants						
39	Tulsi	Local	1.5	1.5	25	0
40	Shatavar	Local	0.700	0.700	7	0
41	Ashwgandha	Local	0.350	0.350	6	0
	Total		1759.88	1344.25	834	415.63



4.2 Mobilizing and Supporting Youth in Sustainable Agriculture in the Kumaun and Garhwal Himalayas of Uttarakhand

The project on mobilizing and supporting youth in sustainable agriculture in the Kumaun and Garhwal Himalayas of Uttarakhand commenced its third year. The overall goal of this project is to create sustainable livelihoods and ensure food security for small scale farmers, especially the youth, in rural India.

The project focuses on strengthening farmers platform and increasing sustainable practices in agriculture. There is an added focus on agriculture based enterprises and its linkage with markets. Agriculture based enterprise and its successful and sustainable link with markets is the key to retaining young people in agriculture. Assured market and fair incomes for diverse produce are required to sustain farmers.

Market search and procurement of improved food processing equipment was done to strengthen and support the entrepreneurs with better technology. Visit was made to



manufacturing centre in Ambala, Haryana for test trial of garlic peeling machine and ginger slicing machine.

In order to support the women entrepreneurs of Ready to Eat Products Enterprise for making Amaranth Laddus, market search and finalization of spiral grading machine was made. An Amaranth Puffing machine was procured after market search and communication with vendors. This will aid women entrepreneurs for puffing of Amaranth for large scale production. INHERE supported marketing activities for entrepreneurs through linkages with local religious institutions. Further, design development of labels and market search of packaging material was done for the product.

In order to support activities in the Seed bank, a high efficiency grading machine was procured and installed for seed grading.

Market search, procurement and demonstration of 2 in 1 Pulveriser machines have been done for entrepreneurs at the Chinoni campus. As a result, 3 machines were made available as per demand to entrepreneurs of 3 villages to support them with their business activities.



The activities undertaken in the period are the following.

Contacts and meetings:

A total of 80 village level meetings were held in 45 villages with participation of 628 young farmers comprising 325 women and 303 men. The main issues discussed in the meetings were formation of village level farmer groups, strengthening of common farmers platform, need for membership fees and purposes for which it should be used. Discussion was also held on problems being faced and possible solutions. During this period the project activities got extended to 11 new villages. 19 new potential village leaders were identified. Total of 489 farmers joined as new members. The Farmers Platform presently has 1309 members from 69 villages.

Trainings:

Training programs were organised as per need of the members for cultivation, value addition of produce and the processes required for placing it in the market for sale. Members of the platform participated in 22 trainings and workshops.

Trainings and Workshops:

Sl. No.	Date	Venue	Name of Trainers	Subject	Total Participants	Male	Female
1	26/08/20	INHERE Training Centre	Mr. Bhuwan Sharma	Fish Rearing	14	14	0
2	05/09/20	INHERE Training Centre	Mr. Mohan Sharma	Rosemary Cultivation	11	07	04
3	19/09/20	INHERE Training Centre	Mr. Bhuwan Sharma	Poultry Rearing	17	16	01
4	26/10/20	INHERE Training Centre	Mr. Kishan Singh	Nursery Rasing	05	05	0
5	27/10/20	INHERE Training Centre	Mrs. Guddi Devi	Training on value addition of Amaranth	12	0	12
6	28/10/20	Village- Todhra	Mr. Shankar Devtalla	Preparation of CPP	15	10	05
7	09/11/20	Village- Nayal	Mr. Shankar Devtalla	Preparation of bio-pest controller	15	11	04
8	11/11/20	INHERE Training Centre	Mr. Dayakishan	Mushroom Cultivation	15	15	0
9	02/12/20	INHERE Training Centre	Mr. Bhuwan Sharma	Poultry Rearing	15	15	0
10	04/12/20	INHERE Training Centre	Mr. Dhan Singh	Mushroom Cultivation	16	16	0
11	05/12/20	Village- Dudholi	Mr. Shankar Devtalla	Preparation of bio-pest controller	17	09	08
12	07/12/20	Village- maniyadhiya	Mr. Shankar Devtalla	Preparation of bio- pest controller	14	06	08
13	11/12/20	Village- Kafaltana	Mr. Shankar Devtalla	Preparation of bio- pest controller	25	15	10
14	12/12/20	INHERE Training Centre	Ms. Divya Agarwal	Spices processing and marketing	11	07	04
15	14/12/20	Village- Kafaltana	Mr. Jagat Prakash Upadhyay	Preparation of bio- pest controller	12	05	07
16	1-1-2021	Village Todhara	Mr. Suresh Papnai	Fruit Processing	19	14	05
17	4-1-2021	INHERE Training Centre	Mrs. Guddi Devi	Value addition of Amaranth	06	00	06

18	23-1-2021	Village Maniyadhia	Ms. Divya Agarwal	Fruit Processing	15	05	10
19	24-1-2021	Village Rathkhal	Ms. Divya Agarwal	Fruit Processing	18	17	01
20	25-1-2021	Village Bharsoli	Mr. Shankar Devtalla	Preparation of Bio Pest Controller	05	05	00
21	4-2-2021	INHERE Training Centre	Mr. Mahesh Sharma	Organic Certification (process and documentation)	08	07	01
Total:					285	199	86

Educational Visit:

7 educational visits of 91 entrepreneurs were organized to Dunagiri area, Mukteshwar, Gairsain and INHERE Campus Chinoni for exposure to household level food processing and value addition activities.

Poultry Rearing Enterprise:



In this period, 41 farmers engaged in poultry in 15 villages reared 1140 chicks and earned Rs. 271,500 as an additional income monthly with an average of Rs. 6,622/ month per family.

Along with this, 06 more farmers of 05 villages took up poultry farming encouraged by the results of the farmers who had taken up this activity.

Market search and procurement of Poultry Hatchery Incubator machines of 1000 and 500 chick capacity was done for local availability of vaccinated chicks in the hill region.

Poultry Enterprise:

Sl. No.	Group/ Name of village	No. of Poultry Rearing Entrepreneurs	Total no. of reared chicks	Average production of eggs per day (A)	Sale rate per egg (In Rs.) (B)	Monthly earnings through egg production (in Rs.) (A*B* 30 days)	Remarks
1	Rathkhal	06	170	65	10	19500	In addition to eggs, 11 entrepreneurs of
2	Beena	02	40	12	10	3600	

3	Dharapani	03	100	35	10	10500	11 villages sold 510 chicken and earned Rs 153,000 at average rate of Rs 300 per chicken..
4	Kunthyari	04	80	30	10	9000	
5	Gogata	02	40	12	10	3600	
6	TallaPali	01	20	06	10	1800	
7	Baralgaon	02	40	12	10	3600	
8	Kotyuda	04	100	30	10	9000	
9	Basbheera	02	100	30	10	9000	
10	Raikot	02	40	10	10	3000	
11	Bachuwaban	02	50	15	10	4500	
12	Kumaleshwar	03	150	60	10	18000	
13	Rampur	04	160	62	10	18600	
14	Karculi	01	30	10	10	3000	
15	Masigaon	01	20	06	10	1800	
	Total	41	1140	395	10	118500	

New Poultry Entrepreneurs:

Sl. No.	Group/ Name of village	No. of Poultry Rearing Entrepreneurs	Total no. of reared chicks	Average production of eggs per day (A)	Sale rate per egg (In Rs.) (B)	Monthly earnings through egg production (in Rs.) (A*B* 30 days)	Remarks
1	Nagad	01	60	-	-	-	Since 237 chicks were taken up for rearing in April, Sept., October egg production or earning has not yet begun.
2	Bharsoli	02	92	-	-	-	
3	Chamyari	01	30	-	-	-	
4	Jaitha	01	25	-	-	-	
5	Dhamdev	01	30	-	-	-	
	Total	06	237	-	-	-	
				-	-	-	

Vegetable Production Enterprise:

In 32 villages, 408 farmers are growing vegetables for the market based on anticipated demand for various vegetables. They are also taking care to obtain good quality open pollinated seeds, do soil treatment, take preventive and control measures against insects and pests. The sale of additional income from vegetable cultivation was an average Rs. 35,364 yearly per family.



A new initiative of collective marketing of vegetable produce from Dunagiri region was taken by encouraging couple of farmers for business for collection and sale of vegetables from a cluster of villages in the market rather than each farmer producer doing marketing individually.

Spices Enterprise:

During the reporting period 4 quintal turmeric and ginger seed was procured by youth leaders for 30 farmers of 4 villages. During the year 10 spice based enterprises set up earlier continued to provide service to farmers of their villages. The gross returns of the entrepreneurs is approximately Rs 8,950 per month.

Food Grain Enterprise:

During the reporting period 113 farmers from 57 project villages collected 180 quintal of their surplus produce and sold it to local shopkeepers after cleaning and grading. These farmers gained additional income of Rs. 461640 (average Rs. 4000/farmer).

Medicinal plant cultivation and processing Enterprises:

During the reporting period 28 farmers from 22 project villages initiated medicinal plant cultivation and produced 11.10 quintal herbs on their land and sold it, by which they received Rs. 38187.5 as an additional income.



Bakery Products Enterprise:

A Bakery Enterprise has been developed and made functional at the Chinoni village for demonstration of new livelihood opportunities. Market search and procurement of Bakery machines such as a 3 Deck 6 Tray Oven, Proofing machine, Dough Kneading machine and other support equipment was done for development of the demonstration and training enterprise unit. Value added products such as Bun, Fan, Cake, Muffin etc. were developed with the help of a resource person. Further, products manufactured at the unit are being marketed

locally by an entrepreneur. Capacity building trainings have been organized for local entrepreneurs on development of baking based value added products along with machine operations and maintenance.

House hold level Fish Rearing:

During the reporting period 17 farmers from 5 project villages initiated house hold fish rearing. Technical know how and fingerlings of grass carp and silvercarp species was provided to farmers for 17 fish tanks.

Sustainable Agriculture Activities and Results:

- 506 farmers from 50 villages have adopted preparation and usage of Bio- Pest Controller for pest and disease control on their crops after seeing satisfactory results.
- 1694 farmers from 50 villages have done Line Sowing in Finger Millet on their agricultural lands
- 341 farmers from 40 villages adopted SRI technique for Paddy Cultivation.
- 434 farmers from 25 villages have done Line Sowing for Cabbage, Cauliflower, Ginger, Turmeric, Chilly, Lady Finger, Colocasia, Potato and Capsicum, Brinjal Spinach, Rai , Tomato etc.
- Inter- Cropping has been done by 399 farmers in 43 villages for Radish, Chilly, Turmeric, Lady Finger, Pea and Garlic.
- Soil Treatment using Trichoderma was done prior to inter- cropping by 144 farmers in 22 villages on 96 nali area.
- Mulching was done by 571 farmers in 70 villages in 86 nali land for protection from heavy rain and frost on onion, coriander, chilly and capsicum. 21 farmers adopted Soil Treatment using Trichoderma prior to Inter- Cropping in 12 villages on 96 nali area.
- Wire fencing in vegetable cultivation has been adopted by 65 farmers in 35 villages covering of 12 acre land for protection from wild animal.54 farmers in 15 villages adopted wire fencing in vegetable cultivation covering of 18 acre land for protection from wild animals.
- Low cost earthen HDPE lined tanks are constructed by 9 farmers of 6 villages for minor irrigation in 1.5 acre land for vegetable cultivation.

In Chinoni campus,continuation of work was done and the demonstration and cultivation training facility for Organic agriculture farming was maintained.It includes five small Polyhouses, one Fishery unit, one Poultry unit and one small local cow rearing unit of maximum five animals.

Linkage with government programmes:

A total of 3190 farmers applied for 19 schemes from 5 govt. institutions out of which 2884 have been accessed and availed and remaining 195 are under process.

a) Govt. Horticulture Department:

- 112farmers from 48 villages applied for Poly Houses out of which 102 have been sanctioned and remaining 10 are under process.

- 362 farmers from 50 villages applied for Horticulture Cards out of which 362 have been sanctioned.
- 365 farmers from 31 villages applied for Vegetable Seeds out of which all 365 have been sanctioned and made available.

b) Govt. Agriculture Department for Improved Agro Tool and Machinery:

- 21 farmers from 13 villages applied for Power Tiller out of which 19 have been sanctioned and 2 are under process.
- 147 farmers from 33 villages applied for Spray machine out of which 143 have been sanctioned and 04 are under process.
- 7 farmers from 4 villages applied for Water Pump out of which all have been sanctioned and made available.
- 450 farmers from 25 villages applied for Organic Manure as Bio- Nutrients out of which 356 have been sanctioned and 94 are under process.
- 145 farmers from 15 villages applied for Soil Health Card out of which 137 have been sanctioned and made available while 7 are under process.

c) MGNREGA:

- 68 farmers from 44 villages accessed Poultry sheds under the scheme and all have been sanctioned.
- 21 farmers from 6 villages applied for Goat sheds out of which 18 have accessed while 3 are under process.
- 27 farmers from 12 villages applied for Cow sheds and all have been sanctioned.
- 349 farmers from 71 villages applied for Vermi Compost Pit and all have been sanctioned. This includes farmers from additional 13 new villages who applied for Vermi Compost Pits.
- 33 farmers from 15 villages applied for HDPE tank out of which 9 have sanctioned while 24 are under process.
- 17 farmers from 5 villages applied for Fish Ponds and all have been sanctioned.

d) Bank:

- 426 farmers from 58 villages applied for Crop Insurance and all have been sanctioned.
- 480 farmers from 47 villages applied for Farmer's credit card out of which 449 have been linked and accessed while 31 are under process.
- 76 farmers from 9 villages applied for Agriculture Loan out of which 56 have been linked and accessed loans while 20 are under process.

e) Govt Social Welfare Dept.:

- 19 farmers from 17 villages applied for Person with Disability pension and all have been accessed.

- 65 farmers from 29 villages applied for Widow pension out of which 54 have been accessed and 11 are under process.

Participation at National and International programme:

- Online participation in webinar on ‘The future of livelihoods in the Mountain states of India: In the post-Covid 19 Era in the context of economic and environmental challenges’ organized by Integrated Mountain Initiative, New Delhi on 1.5.20.
- Online participation in webinar on ‘Is Tourism a viable Livelihood Option: Exploring Community Resilience in the Tourism sector’ organized by Equations, Bengaluru on 2.5.20
- Online participation in webinar on ‘Farmer's forum’ organized by SEWA, Gujarat on 13.5.20 and 20.5.20 respectively.
- Online participation in webinar on ‘Virtual Class: Understanding FSSAI Organic Food Regulation 2017’organised by Food Safety Works, Bengaluru on 23.5.20.
- Powerpoint presentation prepared and done before the executive council of INHERE for progress review on 5.11.20

Documentation:

An expert team from New Delhi visited the project sites for video documentation of success stories of entrepreneurs and farmers. The preparation of documentary is under process and will be released soon.



4.3 Development of natural resource based livelihood options in the Dudhatoli catchment of River Ramganga (W).

The 3 year project on ‘Development of natural resource based livelihood options and employment for small holder mountain farmers of Kumaon and Garhwal Himalayas with special focus on women in the Dudhatoli region catchment of origin of River Ramganga (W) completed 3 years. Under the same, INHERE partnered with Initiative for Social Change and Action (ISCA), New Delhi and Department of Environmental Sciences, G.B.Pant University of Agriculture and Technology, Pantnagar.

The goal of the project is livelihood opportunities creation through bio-resource and biodiversity conservation and sustainable agriculture production and utilization for rural inhabitants, especially women. The geographical focus of the project is 20 villages in the catchment of river Ramganga (west), one of the few rainfed rivers of the Himalayas and a tributary of river Ganga which is also the lifeline of the Corbett National Park and its reserves.



Several previously introduced interventions for improving the agricultural base were continued and demonstrated in the project villages. There were follow up demonstrations for promotion of composting measures, introduction of improved seed varieties, sowing practices, tools, techniques and agri- implements for land preparation, sowing, cultivation and post-harvest. Plantation measures such as Citrus Fruits, Spices, Tea Plants along with extension of Fodder Grass were undertaken to improve and strengthen the resource base for entrepreneurship development and livestock

requirement. Further, demonstration of Kurmula Pest traps was done to deal with white grub infestation destroying crops of small holder farmers.

Integrated Vegetable Farming plots have been developed by harnessing run- off water from local springs and water windows to assure availability of the same for minor irrigation during dry summer months.

Ten village level processing units for processing of locally available natural produce were further strengthened. Nine previously established Integrated Vegetable Farming sites in 7 villages have progressed with vegetable farming and sale at the local level. Furthermore, 1 more unit was added to the previous 6 Cluster level Poultry units for supply of vaccinated chicks to farmers. Marketing support and chicks availability was made to courtyard-level poultry units in project villages. Nutritional value test report and legal compliances for Trademark availability of Ramganga Roots brand food products was completed.

Skill building and follow up trainings were organized for entrepreneurs at INHERE Chinoni. Trainings included earlier introduced topics such as Account and Record Keeping and processing of products to ensure quality and product standardization. Training on product marketing, support material procurement and availability was



given to ensure sustainability and handholding to entrepreneurs.

Further, participation in local fairs, festivals and government events along with sale in village clusters, rural centres was done by entrepreneurs. This was done to promote linkages and business opportunities for the enterprises. Linkages with online marketing platforms and other institutions is under process to provide sustained demand driven opportunities. Market search, procurement and test trials of improved equipment was continued to strengthen and support the enterprises.

The group enterprises have participated in various fairs and regional festivals along with sale at local retail shops. The women entrepreneurs participated at the Gairsain Vidhansabha session in March 2021. The products were linked with the 'Earth Shop,' a private franchise, in an effort to reach out to potential customers in urban pockets.

Establishment of Dudhatoli Kisan Swayatt Sahakarita, cooperative was done to provide an umbrella body for collective administrative, financial, legal, decision making and marketing assistance to enterprises. The members of the enterprises have been selected as board members and workshops have been conducted to train them on the process.

Linkages with online e-commerce platforms such as Amazon, Indiamart and Tradeindia is under process to explore a wider customer base for the enterprises.

A Workshop on Monitoring and Evaluation was organised online through web conference mode on the 3rd and 4th of November, '20 by GBPNIHESD, Kosi Katarmal Almora. INHERE staff members briefed the expert panel on the achievements gained during the previous year and inputs were noted. The project was granted a 6 months extension based on the successful implementation and to provide further sustainability to project interventions.



Interventions in Agriculture:

- Bio Nutrients, Manuring and Pest controllers
- Composting measures
- Fodder Grass Plantation
- Spices Plantation
- Tea Plantation
- Fruit Plantation
- Improved Agricultural Implements
- Improved Seeds for Crop Cultivation

Bio- Nutrients, Manuring and Pest Controllers:

Cow dung, cow urine and locally available botanicals like stinging nettles, walnut leaves and other plants are used for preparation of Bio- Nutrients on-farm by the farmers themselves. These are low cost inputs made from easily available local materials. They replenish soil's nutrient base and moreover are environment friendly. For promotion of natural and organic farming methods, these provide a viable alternative to chemical inputs. Bio Nutrients in the form of Liquid Manures have been adopted in 20 villages benefitting 569 households and covering 775 Nali area.

Off-farm organic inputs such as Trichoderma and Pseudomonas have been introduced in a total of 13 villages covering 156 households. These not only improve germination and immunity of seed but also boost growth.

Composting Measures:

119 Compost Pits in 20 villages were revived and used for preparation of valuable compost. The Compost Pits have been made near the Cow Sheds. Vermi composting has been started with introduction of worms for efficient use of manure and to provide good quality compost to crops locally.

Fodder Grass Plantation:

Unavailability of adequate fodder in agricultural lands especially during summer months has been a major problem in the project region. Livestock keepers have traditionally been dependent on the Dudhatoli forests for fodder and take their livestock to these higher pastures during summers. To cope with the acute shortage of nutritious animal feed, further extension of Napier Grass was done. It is expected that availability of fodder in the village vicinity will reduce the pressure on Dudhatoli forests.

Extension of Napier grass was done on bunds at the edge of the fields by farmers. The grass plantation covers 59,920 running metres. A total of 244 households in 12 villages have been covered. This is done with the objective of creating fodder availability and retaining biomass at the local level in future.

Besides fodder yield from unutilised land, another benefit will be strengthening of bunds and reduction of soil erosion by strong winds and run-off water. Moisture content of soil in agricultural fields is also expected to increase and help in increasing crop productivity.

Spice Plantation:

Plantation and extension of 500 Big Cardamom plants was done with selected farmers to promote cash crop cultivation. A total of 57 households have planted Big Cardamom plants in 7 villages covering 6.25 Nali area.

Tea Plantation:

Realising the potential to market homegrown tea, extension of tea plantation area was continued this year as well by 3 households in 1 village covering 10 Nali area. Plantation of 2000 T.S 520 variety plants was done in the fallow land of farmers.

Fruit Plantation:

Plantation and extension of Citrus Fruit varieties, *Hill Lemon* and *Hill Orange*, was done to support the entrepreneurial units based on processing and value addition of local fruits. This will further provide additional income opportunities for local farmers as well. A total of 2000 plants in 15 villages were planted by 388 households covering 334 Nali area.

Improved Agricultural Implements:

Improved agriculture implements were introduced to demonstrate to farmers new methods of cultivation and post-harvesting. The objective is to provide information and access to implements which are not only cost effective but also time saving as well as reduce drudgery.

Small equipment such as Power Tiller and Millet Thresher have been demonstrated for post-harvest agricultural activities. Power Tiller was demonstrated in 3 villages to 20 households covering 35 Nali area. Millet Thresher was demonstrated in 3 villages and used by 8 households for processing of major millet crops of Barnyard and Finger Millet. Further, Kurmula Pest Trap demonstrated earlier was made available on demand to 5 households in 5 villages after demonstration.

Better Seeds for Crop Cultivation:

8 new varieties of improved seeds amounting 627.4 kg were made available to 397 households of 20 villages to cover 195 Nali. For cultivation of vegetables as minor crops ten varieties of seeds were made available. Furthermore, 498 kg of Ginger seed was procured for 67 households of 11 villages covering 12.5 Nali area. Improved seeds have been made available to not only ensure food security but also to promote self-sustainability. This has been done further to reduce dependency on the market and creating a potential to market the agricultural produce locally to generate income at household level.

Detail of plantation activities undertaken during the reporting period:

Serial No.	Name of Plantation	Total no. of benefitted villages	Total no. of households benefitted	Total number of saplings	Total area covered
1	Fodder Grass (Napier Grass)	12	244	14980	Running metre
2	Tea Plants	1	3	2000	10Nali
3	Citrus Fruits	15	388	2000	334Nali
4	Spice Plants	7	57	500	6.25Nali

Intervention in agriculture was done in the project region by demonstrating new sowing methods, soil preparation and treatment of seed with Bio- Nutrients, Bio- fertilisers and fungicide using Trichoderma, development of Integrated Vegetable Cultivation Sites (IVCS), composting measures and introduction of vegetable seeds for cultivation. The details of the same are given in the table below:

Serial No.	Name of Agro-Intervention	Variety/ type / Tool	No of Villages	No of Households	Quantity (in kg)	Area Covered (in Nali)
1	Dry Manuring	Compost Pits	20	119	1,57,199	393.74
2	New Seed Varieties Introduced	8 Crops	20	397	627.4	195
3	Bio- growth promoters/ fertilizers	Trichoderma + Pseudomonas	13	156	32	8800

Enterprise development:

A total of potential 31 Entrepreneurial Units have been established and are being simultaneously supported and facilitated. These include 10 processing units, 7 Cluster level Poultry rearing units, 5 Fish rearing units and 9 vegetable farming units and 58 Courtyard rearing units of 25 chick capacity. The units are based on the availability of local resources and interest of local people in becoming entrepreneurs.

The enterprise areas identified and present status of units:

Processing Enterprises:		
Sr.no	Name of Enterprise	No. of units
1	Cereals, Pulses and Millets	2 established
2	Spices	1 established
3	Fruits and Vegetables	3 established
4	Ready to Eat Products	4 established
Poultry Rearing Enterprises:		
5	Poultry Rearing	7 established
Courtyard Poultry Rearing Enterprises:		
6	Courtyard Poultry Rearing	58 rearers
Fish Rearing Enterprises:		
6	Fish Rearing	5 established
Integrated Vegetable Farming Enterprises:		
7	Vegetable Farming Units	9 established
	Total:	31 Enterprises

Below mentioned entrepreneurial units have been established:

1) Cereals, Pulses and Millet Unit:

Production of value added products and provision of services utilising local Cereals, Pulses and Millet is being done by 10 entrepreneurs in 2 units.

2) Fruits and Vegetables Unit:

Production of Juice Products from Hill Lemon, Hill Orange and Rhododendron and Pickle using Garlic and Chilli has been started by 18 entrepreneurs in 3 units. 3 new Concentrates (Hill Lemon, Hill Orange and Rhododendron) and 1 Jam (Rhododendron) have been developed and added to the existing product line.

3) Ready to Eat Products Unit:

Production of Amaranth Laddu by processing locally grown Amaranth is being done by 12 entrepreneurs in 2 units. Linkage with local temples at religious centres has been done to further provide additional market to the enterprises. Establishment of Bakery and Savouries enterprise has been done at village Saringwad and Kulagad respectively. Proofing machine and Dough Kneading machine were installed at the Bakery unit after prolonged market search to ensure quality and expand product range.



4) Poultry Rearing Units:

Courtyard Poultry Rearing is a cost effective allied agriculture based business activity that is being promoted at household level in the mountain areas. Small poultry rearers are being supported by Cluster level poultry units with availability of healthy vaccinated chicks for rearing.

4 additional units of 150 chicks capacity each were developed totalling 7 Cluster level Poultry Rearing Enterprises in the project region. These Poultry Rearing units will be helpful in providing affordable vaccinated chicks at village level. Furthermore, market search, design upgradation, procurement and test trial of solar powered 200 chick capacity Poultry Hatchery Incubators was done. These will be beneficial in localised availability of healthy chicks and will further reduce transportation costs for entrepreneurs.

5) Fish Rearing Units:

A total of 5 Fish rearing sites have been developed in 2 villages by tapping of local water windows in the project region. Earthen tanks have been constructed with the help of entrepreneurs for the first time to explore allied agricultural business opportunity through Fish Rearing. 200 Carp variety fishes have been introduced in each tank based on their climatic suitability.



Development of products:

Nutritional value testing was done and reports received for 17 value added products. Quantity standardisation and nutritional aspects were finalised and 34 products released for marketing.

A total of 54 products were test tried and developed at INHEREChinoni of which the most appropriate were selected for production and marketing.

Market search for appropriate equipment continued. Procurement was done for establishment and strengthening of entrepreneurial units. Regular interaction with sieve manufacturer was done for procurement of customised sieves for use in processing of Barnyard millet. Labels and packaging material for products were designed, developed and made available for use in marketing.

Activities organised for Enterprise establishment at INHERE Campus, Chinoni:

Serial No.	Enterprise	Villages	Activity	No of Participants
1	Ready to Eat Products: Bakery Enterprise	1	Training of staff members by resource person on development of new products	6
2	Ready to Eat Products: Bakery Enterprise	1	Training of entrepreneurs on preparation of Bun and Cake	5
3	Fish Rearing	2	Training of entrepreneurs on fish rearing	5
4	Poultry Rearing	4	Training of entrepreneurs on fish rearing	4
5	Spices and Ready to Eat Products: Savouries Enterprise	2	Training on Accounts Keeping and Stamping	4

6	Ready to Eat Products: Amaranth Laddu, Spices and Cereals, Pulses and Millet	4	Follow up training on Accounts Keeping	8
7	Ready to Eat Products: Amaranth Laddu and Bakery, Fruits and Vegetable Unit and Cereals, Pulses and Millet Unit	5	Training on marketing	5
8	Ready to Eat Products: Savouries	1	Training on development of Savouries products	5
Total				42

Assistance from 20 previously identified community volunteer facilitators at the village level was taken for various activities. This included community mobilization, identification of sites, organizing village level workshops, villages and community members for project intervention, assistance in logistic issues, implementation of entrepreneurial development and agro- intervention measures at field level. Dissemination of information was also facilitated by village volunteers.

Documentation:

A booklet titled '*Agriculture improvement using techniques, practices and implements in the mountain areas*' in being prepared and under process. The Monthly Progress Reports (MPR) and Quarterly Progress Reports (QPR) to keep a track of ongoing field level and organizational level meetings, trainings and related activities were prepared. Annual Report of project was made for the period April 20- March 21 and submitted to GBPNIHESD, KosiKatarmal. Maintenance of data along with photo and video documentation was done at the organisational level. A professional team on video documentary making visited the field area in March to interview entrepreneurs and for film making. A documentary is currently under process on achievements during the project implementation process.

4.4 Enabling livelihoods and improved nutrition through micro solar hatchery enterprises for women empowerment and improved nutrition in villages of district Almora, Uttarakhand

A new project was commenced by INHERE on creating livelihood opportunities for hill farmers through establishment of micro- solar hatchery enterprises. The project has been supported by the International Federation for Home Economics (IFHE)- US Development Fund Grant 2020 for a period of 2 years.

The project focuses on strengthening the present household poultry rearing among the poor, small landholding mountain farmer community by developing skills for business opportunities. It will enable them to operate and run a small solar hatchery of 200 eggs to serve the immediate need of chicks supply to farmers for courtyard poultry rearing in the region

Meetings with board members and selection of staff members for implementation of the project activities has been completed. Market search, design development and upgradation of solar powered 200 chick Poultry Hatchery rearing units was finalised, procured and trial tested. At the field level, village level meetings for selection and orientation of beneficiaries was done.



4.5. Supporting Medicinal Plant Cultivators in two villages during Covid- 2019 by Vedicare, Gurugram

Support was given by Vedicare, Gurugram to provide relief to hill farmers of two villages affected by spread of COVID-19 pandemic in the rural areas. Awareness generation meetings along with activities for hygiene and sanitation were conducted with farmers for protection from COVID-19 pandemic.

As a relief and support measure 350 gm Ashwagandha, 700 gm Shatawari, 1.5kg Tulsi and 390 kg Turmeric seeds were provided to farmers to grow medicinal crops to increase income opportunities for farmers. 15 kg. bio pest controller and micro nutrients were made available to 30 farmers of 2villages for cultivation as per demand. Further, 30 small improved agro tools were given as per demand to 30 farmers of village TallaPali and Basoda respectively.



4.6 Medium Term Cooperation Program with farmer organizations in the Asia and Pacific Phase- II

The Medium Term Cooperation Program II supports networking and joint action to improve livelihoods and create positive socio economic impact in rural development of the Asia and Pacific region. INHERE is

associated with the South Asia program focussed on strengthening networks of farmer organisations and associations in country program supported by International Fund for Agriculture Development.

Online participation was made by INHERE staff members in meetings organized by SEWA. The details of the meetings is mentioned below:

Sr No.	Date	Activity	Participants
1	13/05/20	Participation in Farmer's forum webinar	Mr. Pawan Kaira
2	20/05/20	Participation in Farmer's forum webinar	Mr. Pawan kaira
3	23/01/21	Participation in Farmer's forum women's webinar	Mrs. Geeta Bisht
4	05/03/21	Participation in webinar with IFAD APFP and AFA	Mr. Manoj Maheshwari

4.7 Demonstration and experimentation units

The efforts in demonstration areas at INHERE campuses continued to enhance bio- diversity through plantation of medicinal and aromatic herbs/plants and agriculture crops. Along with this, poultry, fish and duck rearing and poly house demo units were also maintained for purposes of training and demonstration to farmers.

1. Chinoni Campus:

I. Maintenance of poultry demo unit-

Due to non- existence of private poultry hatcheries in the hill districts of Kumaon region and the load on the sole state govt. Poultry Hatchery at Hawalbagh, district Almora and problems due to Covid pandemic, availability of chicks for rearing was affected. In this context INHERE took the initiative for undertaking hatching to enable smooth availability of chicks to entrepreneurs and small poultry rearers. Total 1048 chicks of *Kuroiler* variety were hatched during the reporting period. A total of 591 chicks were made available to project villages. 55 chicks were sold locally. 402 chicks are being reared in unit. A total 2742eggs were produced and sold locally. The Poultry Rearing Unit has been extended with 500 eggs hatching capacity. Proper vaccination of newly borned chicks was done.

II. Fish and Duck rearing unit:

Regular maintenance of Fish and Duck rearing unit was undertaken. Aftercare of 4,000 fingerlings of *Grass Carp* variety of previous year was done. Demonstration was provided to interested farmers from various project villages. Total 27 kg. fish was produced during the period.



III. Poly house unit:



Seedlings of Capsicum, Cucumber, Tomato, Bottle Gourd and Brinjal were developed and transplanted in Polyhouses for production. A total of 28 kg Capsicum (*California Wonder*), 5 kg Bottle Gourd, 5 kg Tomato (*Govardhan*) and 5 kg Cucumber (*local variety*) was produced in the Poly house units. Moreover, production of 150 Brinjal (*local variety*) and Capsicum saplings was done and made available to local farmers.

100 bundle Rye (*local*), 5 kg Chilli (*Bhutan Local*), 20 kg Cauliflower (*Pusa Snowball*) and 35 kg Cabbage (*Golden Acre*) was harvested as second crop in the Polyhouses. 90 Cauliflower saplings were prepared and made available to farmers for cultivation.

Furthermore, in order to promote agriculture organically, preparation and application of organic pest and disease controllers, Trichoderma and Pseudomonas was done. The poly houses are being used to demonstrate potential to local farmers.

IV: Organic Demonstration Plot

Work at the organic demonstration cum practical training plot was continued this year. Preparation of Organic Pest Controllers and nutrients using on-farm inputs, improved agricultural techniques for cultivation and composting measures were maintained for demonstration. A total of 50.5 kg Potato (*Kufri Jyoti*), 50 kg Coriander (*Hybrid variety*), 10 kg Radish (*local*) and 15 kg Beans (*Arka Bold*) was harvested.

Further, 50 kg Wheat (*local variety*) was produced and utilized at the Poultry unit as chicken feed. 5 kg Bottle Gourd (*local*) was produced and was used as a natural climber in the wire fenced area.



V: Cow Shed unit for Sustainable Agriculture:

A Cow Shed of dimension 20ft * 10ft * 8ft has been reconstructed along with storage for fodder of size 10ft *10ft *8ft. This has been done to generate valuable on-farm manure to be used as a bio-nutrient and as a pest controller respectively for crops.



2. Patalgaon demonstration farm:

In Patalgaon demo farm following activities were undertaken:

- Proper irrigation and weeding was done for the Tulsi plants.
- Tulsi plant of *Ram* and *Shyam* variety was sown in 3 Nali area and a total of 22 kg was produced.
- Proper weeding, hoeing and irrigation is being done for Rose plants on the farm and total 75 kg. rose flower was produced.
- A total of 700 rose cuttings of *Santi Folia*, *Rani Sahiba* and *Noor Jahan* variety were planted in 7 Nali Land.
- Wire fencing with angle iron completed in 525 mtr. area for protection from wild animal.
- Rearing of 5 cows was properly maintained.

3. Ratkhet Demonstration farm:

During the reporting year following activities were performed in Ratkhet demonstration farm:

- Previously planted Hill Lemon and Nirgundi plants were irrigated and maintenance work was done.
- Collection of Pirul and creation of fire lines made to prevent forest fire entering.



- Campus was developed for medicinal and aromatic plant cultivation and processing.
- Establishment of poultry hatcher unit initiated.

4. Bhatoli demo farm:

In Bhatoli demo farm following activities were performed.

- Aftercare, mulching and Thavla making of tree plants.
- Collection of *Pirul* and creation of fire lines to protect the farm from wild fires.
- Repairing of stone wall for protection from fire and wild animals.
- Maintenance of cattle on farm.

5. TRAINING, WORKSHOP AND MEETING

5.1 Workshops, Trainings and Meetings attended by INHERE in 2020-21

Sl.	Detail of Workshop/ Training	Date	No. of participant	Name of Participant	Place	Organized by	Duration
1	Participation in Webinar on The future of livelihoods in the Mountain states of India: In the post-Covid 19 Era in the context of economic and environmental challenges.	1.5.20	1	Mr. Chinmaya Shah	Online	Integrated Mountain Initiative, New Delhi.	1 day
2	Participation in Webinar on Is Tourism a viable Livelihood Option: Exploring Community Resilience in the Tourism sector.	2.5.20	1	Mr. Chinmaya Shah	Online	Equations, Bangalore.	1 day
3	Participation in Farmer's forum webinar	13.5.20	1	Mr. PawanKaira	Online	SEWA, Gujarat	1 day
4	Participation in Farmer's forum webinar	20.5.20	1	Mr. PawanKaira	Online	SEWA, Gujarat	1 day

5	Participation in Virtual Class: Understanding FSSAI Organic Food Regulation 2017	29.5.20	7	Mr. ManojMahesh wari & 6 staff members	Online	Food Safety Works, Bangalore, Karnataka	1 day
6	Education visit of seed entrepreneur for exchange of experience	21.9.20 & 22.9.20	15	Ms. GeetaBisht and Youth entrepreneur	RamgarhMalla, Nainital	INHERE, Chinoni	2 days
7	Participation in Webinar on Master class: Understanding Food Preservatives.	23.9.20	1	Mr. Chinmaya Shah	Online	Food Safety Works, Bangaluru	1 day
8	Participation in Webinar on 4th Monitoring and Evaluation (M&E) Workshop-2020 of NMHS supported project	3.11.20 & 4.11.20	3	Mr. ManojMahesh wari, Mr. Chinmaya and Ms. Divya Agarwal	Online	NMHS-PMU, GBPNiHE, Kosi, Almora	2 days
9	Participation in Webinar Women Farmers	23.1.21	1	Ms. GeetaBisht	Online	Self Employed Women's Association (SEWA) Gujarat	1 day
10	Participation in Webinar with SEWA, IFAD APFP and AFA on 2021	5.3.21	1	Mr. ManojMahesh wari	Online	Self Employed Women's Association (SEWA) Gujarat	1 day

5.2 Training and Workshops held at Chinoni Training Centre, INHERE:2020-21

Sl. No.	Date	Name of the Training/Meeting	Participants	Days
1	22.5.20	Training of staff on Agriculture Foresight and Covid-19	8	1 day
2	6.6.20 & 10.6.20	Training on Development of Various Products of Bakery Enterprise	4	4 days
3	26.8.20	Training on Fish rearing for Youth entrepreneurs in upper hilly areas	14	1 day
4	5.9.20	Technical training for Youth entrepreneur on Rosemary plantation	8	1 day
5	12.9.20	Training on Account keeping and label stamping for NMHS entrepreneurs	6	1 day
6	19.9.20	Training on Poultry rearing and hatchery establishment for Youth entrepreneur	14	1 day

7	26.9.20	Training on Account Keeping for village based enterprise	12	1 day
8	24.10.20	Workshop of seed cultivation entrepreneur on seed cultivation, conservation and exchange	15	1 day
9	26.10.20	General meeting of the members of Progressive Farmer's Platform and	12	1 day
10	26.10.20	Workshop and field visit of medicinal plant cultivators at demonstration unit Chinoni	5	1 day
11	27.10.20	Training on Amaranth Laddu making, quality control and marketing for youth entrepreneur	11	1 day
12	5.11.20	INHERE Annual General Body Meeting and Executive Committee Meeting.	14 (Online meeting)	1 day
13	9.11.20	INHERE AajivikaUtthanSamiti Annual General Body Meeting and Executive Committee Meeting.	15	1 day
14	11.11.20	Practical training for Youth entrepreneur on Mushroom cultivation	15	1 day
15	2.12.20	Training on Poultry rearing and hatching for Youth entrepreneur	15	1 day
16	4.12.20	Practical training for Youth entrepreneur on Mushroom cultivation	15	1 day
17	12.12.20	Practical training for Youth entrepreneur on Spice Processing and Value Addition	11	1 day
18	4.1.21	Training on Amaranth Laddu making, quality control and marketing for youth entrepreneur	6	1 day

6. VISITORS TO INHERE IN 2020-21

Sr.	Date	Name	Organization/Village	Purpose of visit
1	5.9.20 to 11.9.20	Mr. Bashudev Singh Negi	Uttarakhand State Organic Certification Agency (USOCA)	Inspection/verification of Organic certification
2	28.12.20 to 31.12.20	Dr. Daulat Singh and Mr. MukeshMeena	Rajasthan State Organic Certification Agency (RSOCA) Jaipur Rajasthan	For Organic Certification
3	2.2.21 to 14.2.21	Mr. Arun Kumar Guliani and Naveen Chandra	Chartered Accountant, Guliani & Company, Dariyaganj, New Delhi	For audit
4	21.3.21 to 27.3.21	Mr. Chandan Kumar and Team	Film Maker, UBIQ MEDIA, New Delhi	For video documentary
5	21.3.21 to 22.4.21	Mr. Parth Pathak	Tata Institute of Social Science (TISS) Mumbai	For Internship

7. PARTICIPATION IN COMMITTEES 2020-21

- **Department of Women Empowerment and Child Development, Govt. of U.K., Dehradun.**
Member, State Level Empowerment Committee
- **Department of Rural Development, Govt. of U.K., Dehradun**
Anchor NGO, Distt. Almora for CAPART programme
- **District Rural Development Agency, Almora**
Member NGO for SJSY, Almora.
- **Chief Development Officer's Office, Almora**
Member, District Level Committee on District Watershed Development Unit for Almora.
- **Chief Executive Officer, SLNA, Watershed Management Directorate, Dehradun**
Member, State Level Nodal Agency for Integrated Watershed Development Programme.
- **G B Pant Institute of Himalayan Environment and Development, KosiKatarmal, Almora, Uttarakhand**
Expert Member in the Panel of Experts under the Broad Thematic Group (Supplementary Livelihood Options) formed to set up an NMHS Monitoring, Learning and Evaluation (MLE) Mission

8. Network Member

- Mountain Partnership under FAO for sustainable mountain development

9. The INHERE Team

Bharat Singh Bisht	Dheeraj Kumar Upadhyay
Manoj Maheshwari	Deep Prakash Gaur
Lalit Deshwal	Geeta Bisht
Chinmaya Shah	Jagat Prakash
Manju Bhandari	Anju Bisht
Shankar Dutt Devtalla	Kamla Faniyal
Pawan Singh Kaira	Narayan Dutt
Divya Agrawal	Geeta Devi
Jagdish Sharma	PuranNath
Mohan Sharma	Sonamati Yadav
Bhuwan Sharma	Mohan Singh Bhandari

10. INHERE INFRASTRUCTURE AND DEMONSTRATION UNITS

INFRASTRUCTURE

Two Main Offices and 3 field offices

Two conference rooms with Projector and Audio-Video facility.

One Library of 5000 + books

Two Training Centers with lodging & boarding facilities for trainees and resource persons.

DEMONSTRATION UNITS

NO. OF UNIT

Medicinal Plants Nursery	2
Biodegradable waste composting silos for mountain areas	2
Biomass based agriculture dryer unit of 50 kg. capacity	1
Traditional Open Pollinated Mountain Seed Bank	1
SanjivaniAyurvedshala	1
Organic Agriculture Farm	2
Organic Food Processing Unit	2
Fisheries unit of 2000 fingerlings	1
Poultry rearing unit equipped with Solar Hatcher of pure Indian breed of 1000 birds	1
Bakery unit	1

11. INHERE DOCUMENTATION & PUBLICATIONS 2020-21

Reports

- Annual Narrative Report of Mobilizing & Supporting Youth in sustainable agriculture in Kumaon&Garhwal Himalayas of Uttarakhand.
- Six Monthly Report of Mobilizing & Supporting Youth in sustainable agriculture in Kumaon&Garhwal Himalayas of Uttarakhand.
- Annual Narrative Report of Development of natural resource based livelihood options and employment for small holder mountain farmers of Kumaon and Garhwal Himalayas with special focus on women in the Dudhatoli region catchment of origin of River Ramganga (W)
- Quarterly Progress Reports of Development of natural resource based livelihood options and employment for small holder mountain farmers of Kumaon and Garhwal Himalayas with special focus on women in the Dudhatoli region catchment of origin of River Ramganga (W)
- Guidebook for ‘Establishment of Rural Agro-based Entrepreneurial Units in the Uttarakhand Himalayas’.
- Hand book on ‘Agriculture Improvement using Techniques, Practices and Implements in the Mountain Areas’.

Power Point Presentation

- Power Point presentations were prepared for NMHS project.
- Power Point presentations was prepared for Executive Committee meetings.

PARTNERS 2020-21

We sincerely acknowledge our partners who supported us in our endeavours in rural development during the year 2020-21.

- MISEREOR (KZE) Germany
 - Ministry of Environment, Forest and Climate Change through NMHS, GBPNIHESD, KosiKatarmal, Almora, India
 - Vedicare Ayurveda Pvt. Ltd., Gurugram, Haryana,India
 - International Federation for Home Economics (IFHE), Atlanta, Georgia, United States of America
-

CONSOLIDATED STATEMENT OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2021

EXPENDITURE	AMOUNT	INCOME	AMOUNT
MISEREOR - Continuation of Mobilising & Supporting Youth in Sustainable Agriculture in Kumaon & Garwal Himalayas of Uttrakhand	4,848,211.00	MISEREOR - Continuation of Mobilising & Supporting Youth in Sustainable Agriculture in Kumaon & Garwal Himalayas of Uttrakhand	3,515,067.50
IFHE - USA Enabling livelihoods and improved nutrition through micro solar hatchery		IFHE - USA Enabling livelihoods and improved nutrition through micro solar hatchery	365,125.00
CEDAC - local innovation & experimentation : an entry point to climate change adaptation for sustainable livelihood in Asia	106,791.00	Bank Interest - For Projects	31,333.00
		Bank Interest - Fcra Main	8,767.00
FCRA Society Programme	692.00		
<u>VEDICARE Ayurveda Pvt Ltd., Gurugram</u> COVID Relief Programme	50,000.00	<u>VEDICARE Ayurveda Pvt Ltd., Gurugram</u> COVID Relief Programme	50,000.00
<u>NMHS - GBPNIHESD, KOSHI ALMORA</u> Development of natural resource based livelihood options & employment - for small holder mountain farmers of Kumaon & Garhwal Himalayas	4,003,065.00	<u>NMHS - GBPNIHESD, KOSHI ALMORA</u> Development of natural resource based livelihood options & employment - for small holder mountain farmers of Kumaon & Garhwal Himalayas	5,082,678.00
Honorarium/Consultancy	1,248,078.00	Miscellaneous Income	36,636.00
Programme Contribution	3,430.00	Services & Administration	1,035,490.00
Office Rent	322,500.00	Bank & FDR Interest	875,626.09
Telephone, Postage & Fax		Contribution From Training Centre	130,087.00

	41,564.01		
Travel & stay	8,073.20	Recovery of Cost From Assets	59,034.00
Documentation	23,605.00		
Audit Fee	160,000.00		
Administrative Expenses	185,115.00		
Misc. Expenses Inc. Repair	76,215.00		
Bank Charges	1,242.35		
Excess Of Income Over Expenditure	111,262.03		
Total.....Rs.	11,189,843.59	Total.....Rs.	11,189,843.59

FOR GULIANI & COMPANY
FIRM REGD. No. - 000789N
Chartered Accountants

FOR INHERE

(Arun Kumar Guliani)
Partner
M. No. - 015970
UDIN No. - 21015970AAAAAD5797

(Secretary)

(Accounts Officer)

CONSOLIDATED STATEMENT OF RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2021

RECEIPTS	AMOUNT	PAYMENTS	AMOUNT
<u>OPENING BALANCE - AS ON 1.4.2020</u>	18,568,324.62		
MISEREOR - Continuation of Mobilising & Supporting Youth in Sustainable Agriculture in Kumaon & Garwal Himalayas of Uttrakhand	3,515,067.50	MISEREOR - Continuation of Mobilising & Supporting Youth in Sustainable Agriculture in Kumaon & Garwal Himalayas of Uttrakhand	4,848,211.00
IFHE - USA Enabling livelihoods and improved nutrition through micro solar hatchery	365,125.00	IFHE - USA Enabling livelihoods and improved nutrition through micro solar hatchery	
Bank Interest - For Projects	31,333.00	CEDAC - local innovation & experimentation : an entry point to climate change adaptation for sustainable livelihood in Asia	106,791.00
Bank Interest - Fcra Main	8,767.00	FCRA Society Programme	692.00
<u>VEDICARE Ayurveda Pvt Ltd., Gurugram</u> COVID Relief Programme	50,000.00	<u>VEDICARE Ayurveda Pvt Ltd., Gurugram</u> COVID Relief Programme	50,000.00
<u>NMHS - GBPNIHESD, KOSHI ALMORA</u> Development of natural resource based livelihood options & employment - for small holder mountain farmers of Kumaon & Garhwal Himalayas	5,082,678.00	<u>NMHS - GBPNIHESD, KOSHI ALMORA</u> Development of natural resource based livelihood options & employment - for small holder mountain farmers of Kumaon & Garhwal Himalayas	4,003,065.00
Miscellaneous Income		Honorarium/Consultancy	1,248,078.00

	36,636.00		
Services & Administration	1,035,490.00	Programme Contribution	3,430.00
Bank & FDR Interest	875,626.09	Office Rent	322,500.00
Contribution From Training Centre	130,087.00	Telephone, Postage & Fax	41,564.01
Recovery of Cost From Assets	59,034.00	Travel & stay	8,073.20
Corpus Fund Interest	16,663.00	Documentation	23,605.00
		Audit Fee	160,000.00
		Administrative Expenses	185,115.00
		Misc. Expenses Inc. Repair	76,215.00
		Bank Charges	1,242.35
		Liabilities/Amount Paid	511.00
		<u>CLOSING BALANCE AS ON 31.03.2021</u>	18,695,738.65
Total.....Rs.	29,774,831.21	Total.....Rs.	29,774,831.21

FOR GULIANI & COMPANY
FIRM REGD. No. - 000789N
Chartered Accountants

FOR INHERE

(Arun Kumar Guliani)
Partner
M. No. - 015970
UDIN No. - 21015970AAAAAD5797

(Secretary)

(Accounts Officer)

PLACE :: NEW DELHI
DATED :: 03.07.2021

BUDGET DISTRIBUTION FOR YEAR 2020-21

