

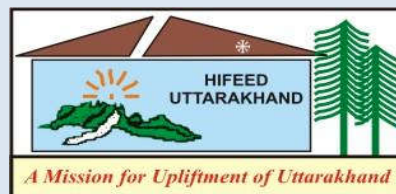
**Final Technology Report (FTR)**

**A Pilot Project for Promotion of Village Tourism in the  
Outer Periphery of Tehri Dam to Ensure Sustainable  
Livelihood Options to Youths and Women by Protecting  
Environmental and Local Cultural Heritage**



**Submitted to:**

**Nodal Officer, NMHS-PMU  
National Mission on Himalayan Studies (NMHS),  
G.B. Pant National Institute of Himalayan Environment &  
Sustainable Development (GBPNIHESD)  
Ministry of Environment, Forest & Climate Change  
(MoEF&CC), Government of India**



**Submitted By:**

**Himalayan Institute for Environment,  
Ecology & Development (HIFEED)  
(AN ISO 9001:2008 CERTIFIED ORGANIZATION)  
(A Centre of Excellence, Recognized by Government of Uttarakhand)**

**Project Office:  
Street No. 4, Shastri Nagar, Haridwar Road,  
Dehradun- 248 001, Uttarakhand**

**Registered & Head Office:  
HIFEED Campus, Ranichauri- 249199,  
District- Tehri Garhwal, Uttarakhand (INDIA)**

Template/Pro forma for Submission

**NMHS-FINAL TECHNICAL REPORT (FTR)**  
Demand-Driven Action Research Project Grant

<b>NMHS Reference No.:</b>	<b>NMHS/201718/SG23/04</b>	<b>Date of Submission:</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>
			<b>D</b>	<b>D</b>	<b>M</b>	<b>M</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>

**PROJECT TITLE (IN CAPITAL)**

**A PILOT PROJECT FOR PROMOTION OF VILLAGE TOURISM IN THE OUTER PERIPHERY OF TEHRI DAM TO ENSURE SUSTAINABLE LIVELIHOOD OPTIONS TO YOUTHS AND WOMEN BY PROTECTING ENVIRONMENTAL AND LOCAL CULTURAL HERITAGE**

**Project Duration: from 01.04.2018 to 31.03.2020**

**Submitted to:**

**ER. KIREET KUMAR**

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## NMHS-FINAL TECHNICAL REPORT (FTR)

Demand-Driven Action Research Project

DSL: Date of Sanction Letter							
2	6	0	2	2	0	1	8
D	D	M	M	Y	Y	Y	Y

DPC: Date of Project Completion							
3	1	0	3	2	0	2	0
D	D	M	M	Y	Y	Y	Y

### PART A: PROJECT SUMMARY REPORT

#### 1. Project Description:

<b>i.</b>	Project Reference No.	NMHS/2017-18/SG23/04					
<b>ii.</b>	Type of Project	<b>Small Grant</b>	<input checked="" type="checkbox"/>	Medium Grant		Large Grant	
<b>iii.</b>	Project Title	A Pilot Project for Promotion of Village Tourism in the Outer Periphery of Tehri Dam to Ensure Sustainable Livelihood Options to Youths and Women by Protecting Environmental and Local Cultural Heritage					
<b>iv.</b>	State under which Project is Sanctioned	Uttarakhand					
<b>v.</b>	Project Sites (IHR States covered) (Maps to be attached)	<p>Project villages of District Tehri-Garhwal of Uttarakhand</p> <ul style="list-style-type: none"> <li>• Chopriyalgaon</li> </ul> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <a href="https://www.google.com/maps/place/Chopariyal+Gaon,+Uttarakhand+249130/@30.3873691,78.3603876">https://www.google.com/maps/place/Chopariyal+Gaon,+Uttarakhand+249130/@30.3873691,78.3603876,</a> </div> <ul style="list-style-type: none"> <li>• Jaripani</li> </ul> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <a href="https://www.google.com/maps/place/Jadipani,+Sakalana+Range,+Uttarakhand+249130/@30.3987577,78.343504">https://www.google.com/maps/place/Jadipani,+Sakalana+Range,+Uttarakhand+249130/@30.3987577,78.343504</a> </div> <ul style="list-style-type: none"> <li>• Dhungli</li> </ul> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <a href="https://www.google.com/maps/place/Dhungali,+Uttarakhand/@30.3921282,78.3236152">https://www.google.com/maps/place/Dhungali,+Uttarakhand/@30.3921282,78.3236152,</a> </div> <ul style="list-style-type: none"> <li>• Kanatal</li> </ul> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <a href="https://www.google.com/maps/place/Kanatal,+Kaudia+Range,+Uttarakhand+249130/@30.4152616,78.3315776">https://www.google.com/maps/place/Kanatal,+Kaudia+Range,+Uttarakhand+249130/@30.4152616,78.3315776,</a> </div> <ul style="list-style-type: none"> <li>• Bhamorikhal</li> </ul> <div style="border: 1px solid black; padding: 2px;"> <a href="https://www.google.com/maps/place/Jhakogi+Kilwano+Ki,+Uttarakhand/@30.4474308,78.2874754">https://www.google.com/maps/place/Jhakogi+Kilwano+Ki,+Uttarakhand/@30.4474308,78.2874754</a> </div>					

<b>vi.</b>	Scale of Project Operation	<b>Local</b>	✓	Regional		Pan-Himalayan	
<b>vii.</b>	Total Budget/Outlay of the Project	Rs. 47,79,000.00					
<b>viii.</b>	Lead Agency	Himalayan Institute For Environment, Ecology & Development (HIFEED), HIFEED Campus, Ranichauri- 249199, District- Tehri Garhwal, Uttarakhand					
	Principal Investigator (PI)	Dr. R.K. Pant, Project Director/Principal Investigator, Himalayan Institute For Environment, Ecology & Development (HIFEED), Street No. 4, Shastri Nagar, Haridwar Road, Dehradun- 248001, Uttarakhand					
	Co-Principal Investigator (Co-PI)	Dr. Kamal Bahuguna, Executive Director, Himalayan Institute For Environment, Ecology & Development (HIFEED), Street No. 4, Shastri Nagar, Haridwar Road, Dehradun- 248001, Uttarakhand					
<b>ix.</b>	Project Implementing Partners	Foundation for Organic & Rural Development (FORD), C- 176, Nehru Colony, Dehradun- 248001, Uttarakhand					
	Key Persons/Point of Contacts with Contact Details, Phone No., E-mail	Mr. H.N. Semwal, Manger (Technical), Foundation for Organic & Rural Development (FORD), C- 176, Nehru Colony, Dehradun- 248001, Uttarakhand Contact No.- 9412075015 E-mail: drrkpant@gmail.com					

## 2. Project Outcome:

### 2.1 Abstract:

The Pilot Project Programme was proposed to develop and promote village eco-tourism and to improve per unit productivity of agri/horti crops in five project villages named Chopriyalgaon, Jaripani, Dhungli, Kanatal and Bhamorikhal in the outer periphery of Tehri Dam in Tehri District of Uttarakhand i.e. in Chamba-Mussoorie Fruit Belt. The ultimate goal was to improve socio-economic conditions of project beneficiaries by technology dissemination, demonstrations and providing them necessary inputs and also to develop home stays as the project villages are in the tourist route.

Besides above two activities, it was also aimed to revive cultural heritage of the project villages and also to promote local cuisines. The ultimate aim was to generate employment and improve socio-economic conditions of the project villages. It was proposed to improve the socio-economic condition of 50 families of project villages and generate employment to 50 unemployed youths and indirect employment to about 2000 local persons and to benefit 1000 tourists through village eco-tourism.

To put in place the project programme three major components viz. relating to agro based activities, village tourism, revival of cultural heritage and promotion of local cuisines were conceived. Under Agro based activities thrust was given on protected

cultivation through poly houses, poly tunnels, technology dissemination, capacity building and demonstrating improved technology of production. The production was on the organic concept of production as per IFOAM standards.

In case of village tourism, it was proposed to develop 10 home stays, providing them missing inputs and linked these home stays with modern digital technology to provide information to the tourists. To revive cultural heritage it was proposed to organize a Paryatan Samvardhan Group comprising of interested male or female persons of project villages interested on singing, dancing, playing local musical instruments etc.

Under Agro base activities it was proposed to establish 10 poly houses 2 each in project village, 30 Poly Tunnels, 6 in each project village, 30 composting demonstrations i.e. 6 per village, 10 poultry units i.e. 2 units per project village, providing 5 water harvesting units, rejuvenation of old orchards, providing planting material of orchard plants to the needy project villagers. Besides this, it was also proposed to strengthen local fruit processing units. Under village tourism it was proposed to identify those project villagers having their houses near to main road and willing to develop their facilities as homestays. It was kept in mind that only those villagers who are in a position to spear 1 or 2 rooms to accommodate tourists are to be identified. It was also planned to provide them missing facilities e.g. bio toilets, crockery, bathroom amenities, linen etc. from project program. It was also proposed to develop tourist guide, cooks, waiters, housekeepers, and receptionist etc.

Under the revival of cultural heritage, it was proposed to organize a Cultural Group out of 5 project village beneficiaries interested in dancing, singing, playing local musical instruments etc. it was also proposed to provide them local costumes, artificial jewellery and to train them through local resource persons and use their services during local festivals and on demand of tourists staying in the homestays.

### **Project Journey:**

In implementation of the project program, in the project villages ten poly houses and thirty poly tunnels are put in place and are being used by the beneficiaries for off season vegetables production and nursery raising.

Thirty vermi compost pits have been developed and are being used by the project beneficiaries. Five rain water harvesting facilities have been provided to those beneficiaries having poly houses/poly tunnels but lacking of irrigation facilities. Ten coops and chicks have been provided to interested beneficiaries. Thirty farmers opted for rejuvenation of their orchard plants and accordingly their plants numbering 1550 have been rejuvenated and 1880 new plants have been planted in the existing old orchards. Forty farmers opted for planting of new plants mostly of apple, peach and walnut. Uttarakhand State Organic Certification Agency has already having a group certification program in this area; they have included our project beneficiaries under that program. Two existing fruit processing units strengthened.

Ten home stays have been strengthened with bio-toilets, linen, bathroom amenities/accessories, crockery, etc. One handicraft emporium has been established. One Naturopathy and Yoga Centre has been established in HIFEED Campus, Ranichauri.

Ten youths have been trained as Tourist Guides, fifteen as Chef/Cooks and thirty as Room Boys/Waiters. Five existing groups of the project area villages have been adopted and organised them as Paryatan Samvardhan Group. A group comprising of ten members representing project villages has been formed as a Cultural Group. Ten youths have been developed in hospitality and in preparation of local cuisines. Twenty four trainings were conducted on various segments like protected vegetables cultivation, poultry farming, compost making, fruit processing, Organic production process, insurance of orchard plants, hospitality management (Front Office, House Keeping, F&B Service, F&B production), local cuisine making and tourist guide. Training was also provided to the members of Paryatan Samvardhan Group.

In implementation of this programme, direct employment to 10 tourist guides, 15 chefs, 30 waiters housekeepers, receptionist etc. have been generated though indirect employment to about 2000 persons was to be generated and we were hopeful to get more than that but due to COVID- 19 most of the establishments got adversely affected as tourist footfall came to a standstill as March to June is the peak season from tourist point of view.

## 2.2 Objective-wise Major Achievements:

S.N.	Objectives	Major Achievements (in bullets points)
1.	<p>Agro Based Activities</p> <ul style="list-style-type: none"> <li>• To improve per unit production productivity.</li> <li>• To provide organic production process as per international standards.</li> <li>• To provide improved technology of agriculture production through protected cultivation.</li> <li>• To demonstrate composting technology.</li> <li>• To demonstrate prism shaped pruning technology.</li> <li>• To provide high yielding genetic material of orchard plants.</li> </ul>	<ul style="list-style-type: none"> <li>• Established 10 Poly houses &amp; 30 Poly tunnels. Established 5 rain water harvesting tanks with drainage system (Patnale)</li> <li>• Organic production process and certification introduced.</li> <li>• Protected cultivation technology demonstrated.</li> <li>• Established 30 vermi compost pits</li> <li>• 1550 plants of old/obsolete orchards rejuvenated.</li> <li>• Elite planting material of 1880 improved varieties provided</li> </ul>
2.	<p>To supplement the income of project villagers through village tourism (homestays)</p>	<ul style="list-style-type: none"> <li>• Promoted 10 home stays (units), linked them online to various websites like Make my Trip, Goibibo, Tripadvisor, Agoda, Air BNB, Booking.com, etc.</li> <li>• Provided ten bio-toilets and need based amenities and articles like linen, toiletries, etc. to homestays.</li> </ul>

3.	To generate employment to unemployed youths of project villages.	<ul style="list-style-type: none"> <li>• Ten youths have been trained as Tourist Guides</li> <li>• Fifteen youths have been trained as Chef/Cooks</li> <li>• Thirty youths have been trained as Room Boys/Waiters</li> <li>• Established a Naturopathy and Yoga Centre at HIFEED Campus, Ranichauri</li> <li>• Established a handicraft emporium.</li> </ul> <p>Though the project developed the above manpower and they were actively engaged with homestays but due to COVID- 19 tourist routes, hotels, restaurants, homestays are closed as per government guidelines and therefore these personals are no more actively involved in any economic activity and are waiting for situation to improve, which has caused uncertainty.</p>
4.	To build the capacity of the women and involve them in maintaining the cultural heritage.	<ul style="list-style-type: none"> <li>• Established a Paryatan Samvardhan Group</li> <li>• Established a cultural group</li> <li>• Developed chefs for local cuisines</li> </ul>
5.	To develop new enterprises like food processing units, poultry and shops to market local produces.	<ul style="list-style-type: none"> <li>• Established ten backyard poultry units</li> <li>• Strengthened two Fruit Processing units</li> <li>• Establishment of one Handicraft emporia.</li> </ul>

### 2.3 Outputs in Terms of Quantifiable Deliverables\*

S.N.	Quantifiable Deliverables*	Monitoring Indicators*	Quantified Output/ Outcome Achieved	Deviations Made, If Any, and Reason thereof
1.	<b>Agro Based Activities:</b> Establishment of poly houses (10 )	Number of units established, commissioned and are	<ul style="list-style-type: none"> <li>• 10 Nos.</li> </ul>	<ul style="list-style-type: none"> <li>• No deviation 100% Achievement</li> </ul>



	Establishment of poly tunnels (30)	in use.	• 30 Nos.	
	Establishment of compost pits (30)		• 30 Nos.	
	Establishment of Poultry units (10)		• 10 Nos.	
<b>2.</b>	<b>Village-Tourism (Homestays):</b>	Numbers of Homestays strengthened		
	Development and strengthening of homestays (10 Units)		• 10 Nos.	• 100% Achievement
	Development of tourist guides (10 Nos)		• 10 Nos.	• 100% Achievement
	Development of Chefs/Cooks (Need Based)		• 15 Nos.	• 100% Achievement
	Room boys/Waiter developed (Need Based)		• 30 Nos.	• 100% Achievement
	Establishment of a Paryatan Samvardhan Group (1 No.)		• 1 Nos.	• 100% Achievement
	Establishment of a Cultural group		• 1 Nos.	• 100% Achievement
	<b>Employment Generation:</b>			
	Direct employment (50)		• 80 Nos.	• More than 100%
	Indirect employment through homestays (Need Based)		• 150 Nos.	• More than 100%
	Employment through Fruit Processing Unit (Need Based)		• 15 Nos.	• More than 100%%

(\* ) As stated in the Sanction Letter issued by the NMHS-PMU.

## 2.4 Strategic Steps with Respect to Outcomes (in bullets)

S.N.	Particulars	Number and Brief Details	Details of Attachment/ Supporting Document
1.	New Methodology Developed	<p>Though no specific methodology was developed but the existing improved production methodologies was demonstrated/ disseminated like:</p> <ul style="list-style-type: none"> <li>• Off season vegetable cultivation through poly houses</li> <li>• During odd season raising nursery through poly tunnels</li> <li>• Composting methodologies</li> <li>• Organic production technology</li> <li>• Prism shaped pruning technology</li> <li>• Linking rain water harvesting tanks with poly houses</li> </ul>	Photographs of individual beneficiaries using the technology are annexed at <b>Annexure- 13</b>
2.	New Models/Process/ Strategy Developed	The current project program was a pilot project program limited for a project period of 2 years. Based on the impact generated by the project program in improving productivity and income, leftover project villagers and also villagers of nearby villages approached the implementing agency to extend the project support to them as well.	Enclosure- Income Graph annexed at <b>Annexure- 8</b>
3.	New Species identified	It wasn't included in the project programme	It wasn't included in the project program
4.	New Database established	In implementation of project program database relating to production & income generated documented	<b>Annexure- 9</b>
5.	New Patent, if any	It wasn't included in the project programme	It wasn't included in the project programme

	<b>i.</b> Filed (Indian/ International)	It wasn't included in the project programme	It wasn't included in the project programme
	<b>ii.</b> Granted (Indian/International)	It wasn't included in the project programme	It wasn't included in the project programme
	<b>iii.</b> Technology Transfer (if any)	It wasn't included in the project programme	It wasn't included in the project programme
<b>6.</b>	Others (if any):	N/A	N/A

### 3. Technological Intervention:

<b>S.N.</b>	<b>Type of Intervention</b>	<b>Brief Narration on the Interventions</b>	<b>Unit Details (No. of Villagers Benefited/ Area Developed)</b>
<b>1.</b>	Development and deployment of indigenous technology	The project was aimed to disseminate available improved production technology. Hence technology development wasn't aimed.	All five project villages.  Though it was planned to benefit 50 families from the project villages but during the course of project intervention about 80 families got benefitted as they volunteered to take part in various trainings/ demonstration organized by the project. It has been observed that more than 2000 persons indirectly benefitted through implementation of project programme in the project villages like taxiwalas, chaiwalas, shopkeepers, families of home stay owners, etc.

2.	Diffusion of high-end technology in the region	<ul style="list-style-type: none"> <li>• Production of Off-Season Vegetables through protected cultivation.</li> <li>• Raising nursery through Poly tunnel Technology during off season.</li> <li>• Use of elite planting material.</li> <li>• Demonstration of Compost making methodologies</li> <li>• Prism shaped pruning technology in rejuvenation of obsolete orchards</li> <li>• Introduction of roof top rain water harvesting technology</li> <li>• Developed trained manpower relating to Agro based activities</li> <li>• Development of homestays for income support.</li> </ul>	
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3.	Induction of New Technology in the region	<ul style="list-style-type: none"> <li>• Organic farming cultivation as per international production process.</li> <li>• Production of off-season vegetables through protected cultivation.</li> <li>• Raising nursery through poly tunnel technology</li> <li>• Demonstration of compost making methodologies</li> <li>• Prism shaped pruning technology in rejuvenation of obsolete orchards</li> <li>• Introduction of roof top rain water harvesting technology</li> <li>• Development of homestays for income support.</li> <li>• Strengthening of existing fruit processing units with input support.</li> </ul>	<p>All the five project villages got benefitted:</p> <p>Though it was planned to benefit 50 families of project villages but during the course of project implementation more than 50 families, 80 got benefitted as they volunteered to take part in various trainings/ demonstrations organized by the project. It has been observed that more than 2000 persons indirectly got benefitted through implementation of project program in an around project villages like taxiwalas, chaiwalas, shopkeepers, chemists, fruits &amp; vegetables vendors, families of Home stay owners, etc.</p>
4.	Publication of Technological/ Process Manuals	While implementing World Bank project i.e. DASP UA, GBPUA&T, Pantnagar had developed a manual on improved package of practices relating to various crops grown in Uttarakhand which was used in disseminating the technologies, wherever called for photocopies of the printed literature were made available to project beneficiaries.	Beneficiaries of five project villages.
	Others (if any)	N/A	N/A

**4. New Data Generated over the Baseline Data:**

<b>S.N.</b>	<b>New Data Details</b>	<b>Status of Existing Baseline</b>	<b>Additionality and Utilisation New Data</b>
<b>1</b>	Protected cultivation through poly houses and poly tunnels	10 poly houses are in use in project villages	Prior to implementation of project program neither polyhouses, poly tunnels nor improved methodologies were in use but after implementation of project program productivity and income of project beneficiaries improved <b>(Annexure- 9)</b>
<b>2</b>	Homestays and bio-toilet	6 existing homestays and 4 new homestays were developed and are in use	With project intervention income of homestay owners improved upto 100% <b>(Annexure- 9)</b>
<b>3</b>	Employment generation	10 tourist guides, 15 chefs, 30 room boys/waiters developed with project intervention	Employment generated in the field of rural tourism, organic input preparation and also indirect employment in the shape of small shopkeepers, taxiwala, barbers, chaiwala have come up in the close vicinity of project villages. <b>(Annexure- 10)</b>

**5. Demonstrative Skill Development and Capacity Building/Manpower Trained:**

<b>S.N.</b>	<b>Type of Activities</b>	<b>Details with Number</b>	<b>Activity Intended for</b>	<b>Participants/Trained</b>			
				<b>SC</b>	<b>ST</b>	<b>Woman</b>	<b>Total</b>
<b>1.</b>	Workshops	Intensive courses related to tourism, agriculture, sustainable livelihood and local culture were held throughout the project period, emphasizing interaction and practical problem solving by the professionals.	Beneficiaries as well as the local population of Chopriyalgaon, Jaripani, Dhungli, Kanatal and Bhamorikhal villages of Tehri Garhwal, Uttarakhand.	<b>5</b>	<b>0</b>	<b>42</b>	<b>265</b>
<b>2.</b>	On field trainings	Trainings were organized on site and professionals were consulted and called for as per the themes of the trainings. Various trainings were conducted based on tourism, agriculture, sustainable livelihood and local culture.	Beneficiaries as well as the local population of Chopriyalgaon, Jaripani, Dhungli, Kanatal and Bhamorikhal villages of Tehri Garhwal, Uttarakhand.	<b>4</b>	<b>0</b>	<b>30</b>	<b>237</b>
				<b>Enclosure Beneficiaries Details at Annexure- 10 and Photos at Annexure- 13</b>			

<b>3.</b>	Skill development	Capacity building through: <ul style="list-style-type: none"> <li>• Trainings on agro based technologies</li> <li>• Trainings on eco-tourism</li> <li>• Trainings to cultural group</li> </ul>	Beneficiaries as well as to the interested villagers of Chopriyalgaon, Jaripani, Dhungli, Kanatal and Bhamorikhal villages of Tehri Garhwal, Uttarakhand.	4	0	30	237
<b>4.</b>	Academic supports	Manual on hospitality,	To develop tourist guides, chefs, waiters, housekeepers, receptionist etc.	0	0	4	52
<b>5.</b>	Others (If Any)	N/A	N/A	N/A	N/A	N/A	N/A

\*District Tehri has no ST population hence no ST beneficiaries in project villages.

**6. Linkages with Regional & National Priorities (SDGs, INDC, etc.)/Collaborations:**

<b>S.N.</b>	<b>Linkages/ Collaborations</b>	<b>Details</b>	<b>No. of Publications/ Events Held</b>	<b>Beneficiaries</b>
<b>1.</b>	Sustainable Development Goal (SDG)	To sustain project activities beyond project period a company known as "HIFEED Project International Private Limited" has been created and a corpus of Rs 90064 has been generated and also master trainers have been developed to support beneficiaries. <b>(Annexure- 9)</b>	1	Villagers of all project villages
<b>2.</b>	Climate Change/INDC Targets	N/A		
<b>3.</b>	International Commitments	N/A		
<b>4.</b>	Bilateral Engagements	N/A		

5.	National Policies	Beneficiaries that were trained on various aspects involved in project intervention were also oriented about Swatch Bharat Abhiyan, and how to improve soil health (Organic Production Process)	During 24 Trainings Programmes	237 Beneficiaries were trained during the project program
6.	Others Collaborations	N/A		

## 7. Project Stakeholders/Beneficiaries and Impacts:

S.N.	Stakeholders	Support Activities	Impacts
1.	Gram Panchayats	<p>Village Chopriyalgaon, Jaripani, Dhungli, Kanatal and Bhamorikhal</p> <p><b>Support Activities: (Agro Based):</b></p> <p>Inputs- 10 poly houses, 30 poly tunnels, 30 compost pits, orchards rejuvenation, planting materials, chicks and coops</p> <p><b>Homestays:</b> Bio toilets, linen, crockery, amenities, trekking kits etc.</p>	<ul style="list-style-type: none"> <li>• Prior to implementation of project program neither poly houses, Poly tunnels nor improved methodologies of compost making were in use but after implementation of project program productivity &amp; income of project beneficiaries improved.</li> <li>• With project intervention income of homestay owners improved.</li> </ul>
2.	Government Departments (Agriculture/Forest, etc.)	Uttarakhand State Organic Certification Agency (USOCA)	With the help of USOCA all the project beneficiaries have been registered/certified for organic production.
3.	Villagers	<ul style="list-style-type: none"> <li>• Support/assistance on agro based activities in terms of frequent consultations, rejuvenation of orchards, pest and disease management etc.</li> <li>• Structure support (poly houses, poly tunnels and prefabricated vermi compost pits)</li> <li>• Trainings</li> </ul>	<ul style="list-style-type: none"> <li>• All the components of the project program have been put in place successfully. As a result project beneficiaries improved their income by about 30%. (e.g. Shri Jayprakash Dabral of Jaripani, Shri Sunder Chand Ramola Jaripani, Shri Dheer Chand Ramola Kanatal, Shri Surender Singh Rana Bhamorikhal, Shri Ramesh Dabral Chopriyalgaon, etc.)</li> <li>• Tourist inflow: More than 400</li> </ul>



		<ul style="list-style-type: none"> <li>• Procurements and supply of improved planting material.</li> <li>• Support to homestay owners in the shape of bio toilets, bathroom amenities, machinery, trekking kits etc.</li> <li>• Online promotion to attract tourists for homestay.</li> <li>• Established a handicraft emporium</li> <li>• Cultural group formation</li> <li>• Established a Paryatan Samvardhan Group</li> </ul>	<ul style="list-style-type: none"> <li>• Earnings from tourists: Rs. 8,10,382.00</li> <li>• <b>Direct Employment: 80</b>  Home stay owner- 10  <b>Tourist guides-</b> 10, guides getting Rs. 500/per group and Rs. 10,000 to Rs. 15,000/per group that are opting for trekking.  <b>Chefs/Cooks-</b> 15 Getting monthly wages between Rs. 10,000 to 15,000.  <b>Room boys/waiters-</b> 30  Getting monthly wages from Rs. 5,000 to Rs. 10,000  <b>Fruit processing-</b>15 persons employed</li> <li>• <b>Indirect Employment-</b>  &gt;2000</li> </ul>
4.	SC Community	Support provided to 4 SC beneficiaries	Improved their income
5.	ST Community	N/A	N/A
6.	Women Group	Support provided to 30 women	Actively involved in Agro-based and ecotourism activities.
	Others (if any)	N/A	N/A

**8. Financial Summary (Cumulative):**

<b>S.N.</b>	<b>Financial Position/ Budget Head</b>	<b>Total Cost</b>	<b>Funds Received</b>	<b>Expenditure/ Utilized</b>	<b>% of Total Cost</b>
<b>1.</b>	Salaries/ Manpower cost	15,00,000.00	14,25,000.00	15,00,000.00	100.00
<b>2.</b>	Travel	50,000.00	47,500.00	49,943.00	99.89
<b>3.</b>	Expendables & Consumables	1,85,000.00	1,74,137.00	1,84,191.00	99.56
<b>4.</b>	Contingencies	1,10,000.00	1,04,500.00	1,09,534.00	99.58
<b>5.</b>	Activities & Other Project cost	20,84,000.00	19,40,116.00	20,83,999.00	100.00
<b>6.</b>	Institutional Charges	80,000.00	76,000.00	79,999.00	100.00
<b>7.</b>	Equipment	7,70,000.	7,40,706.00	7,70,000.00	100.00
	<b>Total</b>	<b>47,79,000.00</b>	<b>45,07,959.00</b>	<b>47,77,666.00</b>	<b>99.97</b>
	Interest earned		87,875.00		
	<b>Grand Total</b>	<b>47,79,000.00</b>	<b>45,95,834.00</b>	<b>47,77,666.00</b>	<b>99.97</b>

\*Please attach the consolidated and audited Utilization Certificate (UC) and Year wise Statement of Expenditure (SE) separately, **Ref. Annexure- I.**

**9. Major Equipment/Peripherals Procured under the Project\*\* (If Any):**

<b>S.N.</b>	<b>Name of Equipment</b>	<b>Cost (INR)</b>	<b>Utilisation of the Equipment after Project</b>
<b>1.</b>	Rainwater harvesting tanks	1,58,420.000	Linked with polyhouses to support irrigation facilities
<b>2.</b>	Poultry units (Chicks & Coops )	96,188.00	Given to beneficiaries for poultry development
<b>3.</b>	Room linen and amenities	2,38,690.00	Provided to homestay owners
<b>4.</b>	Bio toilets	2,76,702.00	Attached to homestays

\*\*Details should be provided in details (**Ref. Annexure- III & IV**)

**10. Quantification of Overall Project Progress:**

<b>S.N.</b>	<b>Parameters</b>	<b>Total (Numeric)</b>	<b>Details of Attachments/Supporting Documents</b>
<b>1.</b>	IHR states covered	1	
<b>2.</b>	Project site/field stations developed	5	Google mapped longitude and latitude
<b>3.</b>	New methods/modeling developed	N/A	N/A
<b>4.</b>	No. of Trainings arranged	24	Photographs Attached as <b>Annexure- 13</b>
<b>5.</b>	No of beneficiaries attended trainings	237	<b>Attendance sheet encloses at Annexure- 14</b>
<b>6.</b>	Scientific manpower developed (Ph.D./M.Sc./JRF/SRF/RA):	N/A	
<b>7.</b>	SC stakeholders benefited	4	-
<b>8.</b>	ST stakeholders benefited	No ST beneficiaries in the project villages.	-
<b>9.</b>	Women empowered	30	Women's have started working in the poly house, poly tunnels, fruit processing units and handicraft emporium
<b>10.</b>	No of workshops arranged along with level of participation	1	Workshop arranged on 24 <sup>th</sup> August 2018.
<b>11.</b>	On-field demonstration models initiated	(Attach maps about location and photos)	<p>Google mapped longitude and latitude</p> <ul style="list-style-type: none"> <li>Chopriyalgaon  <a href="https://www.google.com/maps/place/Chopariyal+Gaon,+Uttarakhand+249130/@30.3873691,78.3603876">https://www.google.com/maps/place/Chopariyal+Gaon,+Uttarakhand+249130/@30.3873691,78.3603876,</a> </li> <li>Jaripani  <a href="https://www.google.com/maps/place/Jadipani,+Sakalna+Range,+Uttarakhand+249130/@30.3987577,78.34">https://www.google.com/maps/place/Jadipani,+Sakalna+Range,+Uttarakhand+249130/@30.3987577,78.34</a> </li> <li>Dhunali  <a href="https://www.google.com/maps/place/Dhungali,+Uttarakhand/@30.3921282,78.3236152">https://www.google.com/maps/place/Dhungali,+Uttarakhand/@30.3921282,78.3236152,</a> </li> </ul>

			<ul style="list-style-type: none"> <li>• Kanatal  <a href="https://www.google.com/maps/place/Kanatal,+Kaudia+Range,+Uttarakhand+249130/@30.4152616,78.331577">https://www.google.com/maps/place/Kanatal,+Kaudia+Range,+Uttarakhand+249130/@30.4152616,78.331577</a> </li> <li>• Bhamorikhal  <a href="https://www.google.com/maps/place/Jhakogi+Kilwano+Ki,+Uttarakhand/@30.4474308,78.2874754">https://www.google.com/maps/place/Jhakogi+Kilwano+Ki,+Uttarakhand/@30.4474308,78.2874754</a> </li> </ul>
<b>12.</b>	Livelihood options promoted	3	Village tourism, agro based and cultural heritage Brochure Attached ( <b>Annexure- 12</b> )
<b>13.</b>	Technical/training manuals prepared	3	Training provided on hospitality management details are attached at ( <b>Annexure- 11</b> )
<b>14.</b>	Processing units established	2	Photos Attached as <b>Annexure- 13</b>
<b>15.</b>	No of species collected	N/A	N/A
<b>16.</b>	New species identified	N/A	N/A
<b>17.</b>	New database generated (Types):	N/A	N/A
	Others (if any)	N/A	N/A

**11. Knowledge Products (KPs) and Publications:**

S.N.	Knowledge Products (KPs)/ Publication	Number		Total Impact Factor	Remarks/ Enclosures
		National	International		
1.	Journal research articles/special issue	N/A	N/A	N/A	N/A
2.	Book chapter (s)/books:	1 brochure	N/A	Visitors flow increased	<b>Annexure- 12</b>
3.	Technical reports	N/A	N/A	N/A	N/A
4.	Training manual (skill development/capacity building)	3	N/A	Homestay's employees are receiving good feedback from visitors visiting to homestay for providing their service during accommodation.	Pertaining to hospitality <b>Annexure- 11</b>
5.	Papers presented in conferences/seminars	N/A	N/A	N/A	N/A
6.	Policy drafts/papers				
7.	Website development	1		Increase in the number of tourist arrivals in the area.	<a href="http://thehimalayanvillage.co.in/">http://thehimalayanvillage.co.in/</a>

\*Please append the list of KPs/publications (with impact factor and further details) with due acknowledgement to NMHS.

### 12.1 Success Model(s)/Best Practice(s) under the Project:

S.N.	Parameters	Description	Details of Attached Supporting Documents
1.	Adaptability of the technology	<ul style="list-style-type: none"> <li>Knowledge intervention like poly houses, poly tunnels, water harvesting structures, compost pits and poultry units helped the local population in improving productivity, water management, better input and output distribution against the barriers of hill agriculture like undulating land, extreme weather conditions, etc. offseason cultivation was possible.</li> <li>Home stay concept brought livelihood to many youth and also aided in reviving old houses which were impacted by migration. Increased the inflow of tourist in the region.</li> <li>Organic farming and certification helped the farmers to fetch higher prices for their produce and aided the concept of sustainable livelihood.</li> </ul>	Detailed photos are attached <b>Annexure- 13</b>
2.	Acceptability (Interest of the local people)	<ul style="list-style-type: none"> <li>Locals highly appreciated the initiative as it aided them financially</li> <li>Provided a means of livelihood</li> <li>Consultations increased awareness about the current market trends</li> <li>Familiarised with the concept of sustainable management of resources</li> <li>Trainings enhanced their skill development</li> </ul>	
3.	Improvement in ecological variables	<ul style="list-style-type: none"> <li>Better tapping of natural resources</li> <li>Increased sustainable livelihood options</li> </ul>	
4.	Baseline data and comparison with the controlled data	<ul style="list-style-type: none"> <li></li> </ul>	<b>Annexure- 10</b>
5.	Outcomes of the scientific publications, knowledge products	<ul style="list-style-type: none"> <li>Website development aided in the online promotion of the home stays which caused an increase in the inflow of tourists.</li> </ul>	<a href="http://thehimalayanvillage.co.in/">http://thehimalayanvillage.co.in/</a>

**12.2 Recommendation on Utility of Project Findings, Replicability and Exit Strategy:**

<b>Particulars</b>	<b>Recommendations</b>
Utility of the project findings	Based on the success of this pilot project, new untapped rural clusters will be developed that may promote tourism, pilgrimage and adventures sports resulting inflow of tourists and pilgrimage in Uttarakhand. The proposed project has a tremendous potential for replication. Infact, one of the major project objectives is to develop this project as a replicable model for adoption in other areas. This project is not of capital-intensive nature but a beneficiary would require a minimum income of Rs. 10,000.00 to Rs. 15,000.00 per month to pursue the activities listed out under this project; at times it may yield even higher returns. The project seeks to develop upon the current resources of human skills that is available with the communities to popularize traditional food, traditional culture, crafts, etc.
Replicability of Project	Based on the success of this pilot project, the same module can be replicated in other hilly areas of the Uttarakhand state by that time we will have sizable experience and also a number of agencies like tour operators, travel agents, tourist guides, transport service providers in place and the only thing would be required to strengthen various linkages with these agencies. We can also capitalize the services of the professionals like hospitality managers, tourist guides, etc. The service needs of other areas can also be address by the professionals already developed. An intricate chain would be set up through contact with tour operators, travel agents through a website displaying about the facilities offered etc. Thus this set up, once established would be useful for channelizing tourists of other parts through various means important among through internet and social media.

Exit strategy	<p>As the project aims to improve village productivity in terms of agriculture produces as well as through other economic activities, therefore the village community has no financial contribution, on the contrary they will be benefited by a project intervention as their houses will get renovated, bio-toilets will be added, they will get knowledge on improved technology like poly houses, poly tunnel, vegetable cultivation, poultry farming, food processing, packaging, etc. In view of this, the project will be providing them avenues for income generation. The villagers will get benefited with tourist inflow to their area.</p> <p>The villagers will charge money for providing accommodation and food which will add to their income. Besides this they will also get benefited with the introduction of poultry, bakery and by various ancillaries like taxiwala, dhabawala, etc. even the tourist activity will be a round year activity because tourist will be visiting during winter (for enjoying snow fall) and summer seasons. The tourist destinations around are on various elevations and therefore the tourist will get a mix of all weather conditions like Tehri Dam which has hot and humid condition where as other areas on higher ridges. To sustain the activities beyond project, a fund will be generated by the Project Implementation Unit (PIU) by levying a cess on the tourists/groups particularly to sustain the Tourist Information Centre. The rate of cess will be decided in consultation with groups/villagers/home stay owners.</p>
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**DR. KAMAL BAHUGUNA**  
**EXECUTIVE DIRECTOR**  
**(HEAD OF THE INSTITUTION)**

**DR. R.K. PANT**  
**PROJECT DIRECTOR**  
**(PRINCIPAL INVESTIGATER)**

(Signed and Stamped)

(Signed and Stamped)

Place: Dehradun  
Date: 5<sup>th</sup> October 2020