



# VIVIDH KRISHI



Vol. 01 No. 02

August-September 2023

**INHOUSE NEWSLETTER OF HP CROP DIVERSIFICATION PROMOTION PROJECT-II**



**HIMACHAL PRADESH CROP DIVERSIFICATION  
PROMOTION PROJECT (PHASE-II), JICA-ODA, HAMIRPUR (H.P.)**

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## INHOUSE NEWSLETTER OF HP CROP DIVERSIFICATION PROMOTION PROJECT-II

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(Vividh Krishi is a Bimonthly Newsletter of H.P. Crop Diversification Promotion Project, Phase-II, JICA-ODA for internal circulation among the stakeholder only. Number of copies printed are 1000 only).

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This is the auspicious month of 77th Independence Day of our nation which is known as the nation of farmers, as more than 70 percent of population is dependent on agriculture and allied fields. On this occasion of 77th Independence Day, 510 Farmer Producer Organisations from 22 States and 1 UT have been invited as Special Guests to witness the Independence Day Ceremony, 2023 at Red Fort Delhi on August 15, 2023. Another group of 50 PM Kisan beneficiaries along with their spouses from 19 States and 2 UTs have also been invited as Special Guests. This is a unique initiative to honour and recognize the contribution of the farmers to the nation's food security. On this auspicious occasion, I extend my best wishes to the farmers and the farming families along with the staff of the Himachal Pradesh Crop Diversification Promotion Project (HPCDP), JICA- ODA, Phase -2 to have started treading the path of sustainable agriculture development and building the congenial environment with creating examples of remarkable achievements.

Formation of Krishak Vikas Associations (KVAs) is an essential activity of Himachal Pradesh Crop Diversification Promotion Project (HPCDP). Under HPCDP, KVAs are being formed with a mandate to have technical, management and business skills required to manage the irrigation facilities developed under this Project. In accordance with the terms of HPCDP, irrigation systems developed under this Project shall be handed over to the KVAs after final inspection and issuance of completion certificate by the Project Management Unit (PMU). The project intends to establish and strengthen Self Help Groups and provide training on processing and sales of agricultural products as well as household budget management as part of the farmers support component.

The overall objective of the project is to promote sustainable crop diversification in Himachal Pradesh by development and rehabilitation of minor irrigation facilities and access farm roads, as well as by improvement of extension services including promotion of vegetable cultivation, thereby contributing to improvement of livelihood of farmers in Himachal Pradesh. This project aims at securing sustainability of the project by promoting participation of beneficiaries at the stage of planning and by including components to enhance the capacities of the water users associations and the executing agency that supports them.

This magazine of August-September, 2023 symbolizes our collective progress and serves as a platform to showcase the path we have travelled and the innovations we have ignited within the agricultural landscape. Best wishes to all those involved in the HPCDP project for a successful and impactful Phase-II.

**Dr. Sunil Chauhan**  
Project Director & Editor



I am truly delighted to introduce the latest edition of our monthly magazine, which serves as a showcase of the remarkable progress and groundbreaking innovations within the realm of agriculture. Our journey, which commenced in 2021, has been marked by significant achievements that hold profound meaning for both the current and forthcoming generations, paving the way for sustainable socio-economic well-being.

The establishment of 222 Krishak Vikas Associations (KVAs) and the meticulous creation of 198 Detail Project Reports have not only solidified our dedication but have also underscored the tangible outcomes we tirelessly pursue. While quantitative achievements serve as milestones, it's the qualitative transformation in the lives of our beneficiaries that truly fuels our mission.

Our achievements aren't just numbers, though. They encompass transformative qualitative enhancements – a shift in attitudes towards crop diversification, innovative farming practices, the adoption of suggested technologies, and an embrace of busier work routines related to farming, processing, and marketing. The spirit of cooperation among peer-farmers and farming groups within KVAs and SHGs, making collective decisions while maintaining individual identities.

This magazine stands as a representation of our collective progress and serves as a platform to illuminate the path we've traversed and the innovations we've ignited within the agricultural landscape. With a sense of shared accomplishment, I eagerly unveil the latest developments through these pages.

**Dr. Vinod K. Sharma**  
Chief Project Advisor

## DPMU PALAMPUR

Number of trainings were conducted by BPMUs of DPMU Palampur with following objectives:

- ▶ Awareness creation among farmers about project activities, crop diversification, project components, capacity building through group formation.
- ▶ To raise awareness about the efficient use of irrigation water by following irrigation scheduling, adopting practices and installing more efficient irrigation systems.
- ▶ To discuss the objectives, norms, rules, regulations, and responsibilities of KVA, crucial for the effective implementation of infrastructure & farmers support activities.



Collection Centre Paprola has been operationalised by FPC, Pragatishil Kisan Utpadak Producers Company Ltd. The activities being carried out by the FPC were reviewed by the Block Project Management team, Palampur. The FPC is procuring the farm produce from the farmers of the adjoining areas. The packaging and value addition of farm products such as Rajmash, Wheat flour, Ghee, local Honey is being carried out at the Collection Centre. In addition, the drying of the Shiitake Mushrooms in small quantities has also been taken up by the FPC.

The Director of Agriculture, (H.P) Dr. Raghbir Singh Thakur reviewed the progress of HPCDP-Phase II in respect of DPMU Kangra on dated 26th August, 2023. Besides, he visited the Shiitake Cultivation & Training Centre Palampur and reviewed the various activities being undertaken there. On 29th September, 2023, the Hon'ble Minister of Agriculture and Animal Husbandry, Prof. Choudhary Chander Kumar inaugurated the Shiitake Cultivation Training Center (SCTC) in Palampur, established by the project. Farmers, project officers and university scientists participated in the event. He interacted with farmers, gaining insights into their experiences. He emphasized that the training on shiitake cultivation being carried out under the project will play an important role in increasing the income of farmers in coming times and shiitake mushroom is also beneficial for the health.



**Trainings organized under the DPMU Palampur in Aug. & Sep. 2023 is as under:**

Sr. No.	Components/Activities	No.	Participants
1	Awareness camp involving Community	3	310
2	Workshop of group to develop objectives and norms	7	245
3	Workshop to discuss principal and practices of irrigation and water management	20	700
4	Field training on basic engineering skills	2	83
5	Orientation & Need Assessment	27	946
6	Training on farm management and Book keeping	19	660
7	Food Grain's Productivity Training & demonstration	8	280
8	Training on "Shiitake Cultivation"	2	60
9	Training on "Post Harvest Management of Shiitake"	3	78
Total		91	3362



## DPMU MANDI

In August & September 2023, the District Project Management Unit (DPMU) Mandi conducted series of activities aimed at capacity development of farmers and increasing their awareness about the project. These training sessions included Awareness Camps involving the community, Orientation and Need assessment, Workshop on irrigation and water management principles, Farm Management and Bookkeeping sessions, Workshop to Develop Objectives and Norms, and training on Food Grain Productivity.



The Sub Project Development Plans are being prepared on priority basis and SDP of 11 sub-projects has been finalized. Sub Project Development Plans in HPCDP PHASE II is a comprehensive document, which can be used to plan the various needs and priorities of a farming community in a subproject. It has been planned to enable and motivate farmers to take up crop diversification/crop intensification, identify their needs and find means to fulfil them in a time bound manner. Livelihood Plan and Service sector skill development are new activities which provide employment opportunity and additional income to farmers



Currently, out of the 101 sites, 58 Detailed Project Reports (DPRs) have been prepared and 37 finalized by the PMC. Construction work has been started at 26 sub-projects. In the month of September, 2023, 7 sites viz, FIS Bran Bihal Rampur Seri, FIS Falatnallah and FIS Naraini of BPMU Kullu and FIS Bhanglera re Kuhal, FIS Jhajhar Khad to Jaral Ropa, FIS Siyanh ki Kuhal, FIS Khalagwad Nalla to Tikroo of FIS Mandi were handed over to the contractors for timely completion of construction work.

**Trainings organized under the DPMU Mandi in Aug. & Sep. 2023 is as under:**

Sr. No.	Components/Activities	No.	Participants
1	Awareness camp involving Community	6	361
2	Workshop of group to develop objectives and norms	6	160
3	Workshop to discuss principal and practices of irrigation and water management	4	135
4	Field training on basic engineering skills	3	105
5	Orientation & Need Assessment	8	315
6	Training on farm management and Book keeping	8	140
7	Food Grain's Productivity Training & demonstration	1	35
Total		36	1251



## DPMU HAMIRPUR

### Brief note on activities conducted

1. A workshop for Extension staff on PRA, PIM, and SDP was held at DPMU Hamirpur.
2. PMC Expert reviewed the SDP prepared by the extension officers at BPMU Hamirpur, Bilaspur & Una.
3. Engineering staff checked the potential sites for catchment area treatment, Farm Access Roads & Solar pumping.
4. Demonstration of Soil Testing Kit was also organised by DPMU Hamirpur.

Drilling work has been started at TWIS Khawaja under BPMU Una by assembling and lowering of machinery. This work aims to benefit the local population through creation of irrigation potential for their area, aligning with the primary goal of achieving crop diversification, as envisioned under the project.



A one-day training program was conducted in the SPMU Hall at Hamirpur focusing on Participatory Rural Appraisal (PRA), Participatory Irrigation Management (PIM), and Sub Project Development Plan (SDP) for Extension Staff. Dr. Shashi Pal Sharma, DPD (A&E), emphasized the critical importance of micro-planning for the systematic execution of various project activities. He elaborated SDP components such as resource availability, land holding, cropping patterns, farmer classification into advanced, intermediate, conservative, vulnerable, farmer problems and so on. He emphasised on these elements for preparation of agricultural diversification plans, livelihood development plans, beneficiary identification for the service sector and livelihood activities.



**Trainings organized under the DPMU Hamirpur in Aug. & Sep. 2023 is as under:**

Sr. No.	Name of Training	No. of Training	No. of Farmers Trained
1	Awareness Camp Involving Community	6	195
2	Workshop to Develop Objective and Norms	5	161
3	Workshop on Irrigation and Water Management	4	161
4	Training on Orientation & Need Assessment	11	384
5	Training on Farm Management and Book keeping	4	159
6	Workshop to develop Objective & Norms of SHG	3	91
7	Exposure Visit of MC members	1	21
	<b>TOTAL</b>	<b>34</b>	<b>1172</b>



## DPMU SOLAN

Various types of training programs have been organized by different BPMUs under DPMU Solan, with the primary aim of creating awareness among beneficiaries about the project's objectives, scope, components, activities as well as the construction, operation, and maintenance of irrigation systems. Also Household surveys have been completed of 464 families. The analysis of primary and secondary data collected from these sub-projects is currently underway, with the goal of formulating plans for crop diversification and livelihood enhancement



The DPMU also conducted regular monitoring of ongoing construction work at the Farm Training Centre at Salogra. This training center will primarily serves as a venue for off-site training, discussions, seminars, workshops, and consultations. PMC visits were conducted in Sarog (Kinnaur), FIS Thuwaring Kwalo to Lanen, and FIS Moorang Nalla to Karba. These visits focused on inspecting the structures outlined in the Detailed Project Report (DPR) for according final approval to the DPR. During these visits, the entire scheme was reviewed according to the DPR, and discussions were held with the farmers. All proposed works were closely observed and wherever was need for technical improvement or additions, they were duly addressed. The PMC Expert documented all the points discussed, and the DPR was forwarded for Technical Approval after incorporating the necessary observations. Site visit for inspection of STW sites has been done with PMC Experts for the verification of source, location of structures and discussion of Detailed Project Report with farmers.



**Trainings organized under the DPMU Solan in Aug. & Sep. 2023 is as under:**

Sr. No.	Name of Training	No. of Training	No. of Farmers Trained
1	Awareness Camp Involving Community	3	350
2	Workshop to Develop Objective and Norms	3	105
3	Workshop on Irrigation and Water Management	3	105
4	Training on Orientation & Need Assessment	2	70
5	Training on Farm Management and Book keeping	3	105
6	Training to MC members on role and responsibility	1	42
	<b>TOTAL</b>	<b>15</b>	<b>777</b>



## OVERSEAS TRAINING CONDUCTED BY SPMU, HAMIRPUR

Training programme on the subject entitled **"Prospective Agriculture Technologies as Solution of Climate Change"** was attended by Dr. Rakesh Sharma SMS Agriculture HPCDP Phase II at Tsukuba, Japan along with participants from 6 other countries viz, Alzeria, Pakistan, Turkey, Tanzania, Rwanda & Mozzambique.



Training programme focussed on understanding the adaptation and mitigation strategies against climate change in agriculture. The frequency and intensity of extreme weather events is also increasing all over world. Now a days for reducing Greenhouse Gases Emissions (GHGs) globally, different countries are bound to decrease respective GHGs emission intensity as per nationally determined contributions (NDC), which are self-defined national climate pledges under the Paris agreement, detailing what countries will do to help meet the global goal against climate impacts and ensure sufficient finance to support these efforts

### Important Learnings of Training Programme:

- A) Efforts should be made for working out exact models for harvesting solar energy to be used for running already installed electrically running tube wells or for meeting out targets of installation of solar powered tube wells in the country for promoting renewable energy in agriculture sector in line with NDC goals.
- B) Efforts should be made in the country for increasing investment in agriculture sector for development of climate resilient crop varieties and indigenous breed of cattle as these are more tolerant to climate changes.
- C) Research institutes in country may collaborate with respective institutes in Japan for introduction of paddy dam concept or water management applications in flood or dry prone paddy areas of country. Further alternate wetting and drying techniques shall be helpful in reducing methane emission in paddy.
- D) Introduction of smart agriculture applications like E kakasai etc. for better decision making in planning field operations shall be very helpful for country.

At the same time farmers of the HPCDP may be made aware to understand that climate change has already started occurring and farmers must be ready for adoption of “adaptation and mitigation measures” against climate change, which are to be suggested or guided by extension officers in coming times.





## “PROGRES REPORT OF ONGOING PROJECT ACTIVITIES”



Progress w.r.t. KVA formation, Registration, Baseline Survey, SDP Preparation, Review by the PMC/SPMU and Endorsement from KVA Genral House upto September, 2023

S.N.	DPMU/BPMU	Revised Targets (Total No. of subprojects)	KVA Formation	KVA registration	Online Baseline Survey (No. of subprojects completed)	Online Baseline Survey (No. of Household covered)	SDP Preparation			
							SDP Preparation	Under review by PMC/SPMU	Review by PMC/SPMU	Endorsement by General House of KVA
<b>DPMU HAMIRPUR</b>										
1	DPMU (Overall)	54	39	37	37	1567	9	1	4	0
2	BPMU Hamirpur	16	13	13	13	433	2	0	2	0
3	BPMU Bilaspur	17	13	12	10	614	3	1	2	0
4	BPMU Una	21	13	12	14	520	4	0	0	0
<b>DPMU MANDI</b>										
1	DPMU (Overall)	101	65	55	25	1985	11	7	2	0
2	BPMU Mandi	26	19	19	11	728	4	3	1	0
3	BPMU Gohar	24	14	13	5	276	3	2	0	0
4	BPMU Kullu	26	15	12	5	636	3	1	1	0
5	BPMU Sarkaghat	25	17	11	4	345	1	1	0	0
<b>DPMU PALAMPUR</b>										
1	DPMU (Overall)	83	68	55	21	2187	9	0	2	0
2	BPMU Palampur	26	19	14	5	435	2	0	1	0
3	BPMU Dharamshala	22	18	16	5	680	2	0	0	0
4	BPMU Kangra	20	16	13	6	723	2	0	1	0
5	BPMU Chamba	15	15	12	5	349	3	0	0	0
<b>DPMU SOLAN</b>										
1	DPMU (Overall)	58	50	35	13	543	1	0	0	0
2	BPMU Solan	22	21	14	6	208	1	0	0	0
3	BPMU Nahan	16	13	10	4	176	0	0	0	0
4	BPMU Rampur	20	16	11	3	159	0	0	0	0

Progress w.r.t. Construction Works under the HPCDP(Phase-II), JICA-ODA, Hamirpur upto September, 2023

S.N.	DPMU/BPMU	Revised Targets (Total No. of subprojects)	No. of DPRs Prepared	No. of DPRs Reviewed and recommended by PMC	No. of DPRs put to tender	No. of Works Awarded	No. of Works under execution	Amount Awarded (Rs)	Amount Booked (Rs)
<b>DPMU HAMIRPUR</b>									
1	DPMU (Overall)	54	35	28	27	5	3	14671845	0
2	BPMU Hamirpur	16	11	11	11	1	0	2373699	0
3	BPMU Bilaspur	17	11	10	9	2	1	8724670	0
4	BPMU Una	21	13	7	7	2	2	3573476	0
<b>DPMU MANDI</b>									
1	DPMU (Overall)	101	58	37	34	28	26	125100477	5744877
2	BPMU Mandi	26	16	10	10	8	7	34033227	2139286
3	BPMU Gohar	24	14	11	11	8	8	34103885	1683873
4	BPMU Kullu	26	13	7	6	6	5	38040331	0
5	BPMU Sarkaghat	25	15	9	7	6	6	18923054	1921718
<b>DPMU PALAMPUR</b>									
1	DPMU (Overall)	83	67	43	33	15	7	84571001	0
2	BPMU Palampur	26	17	15	11	5	3	32712038	
3	BPMU Dharamshala	22	26	9	7	4	2	19777897	
4	BPMU Kangra	20	13	10	6	3	1	27163674	
5	BPMU Chamba	15	11	9	9	3	1	4917392	
<b>DPMU SOLAN</b>									
1	DPMU (Overall)	58	38	28	27	15	10	55708977	1768857
2	BPMU Solan	22	13	12	12	6	4	28542532	634835
3	BPMU Nahan	16	13	7	7	6	4	16226442	1135022
4	BPMU Rampur	20	12	9	8	3	2	10941003	0

# NURSERY RAISING IN PLUG TRAYS

A. Materials used are:  
Cocopeat, Vermiculite,  
Perlite (3:1:1), Plug/Plastic Tray, Seed, Watering can

## Materials used

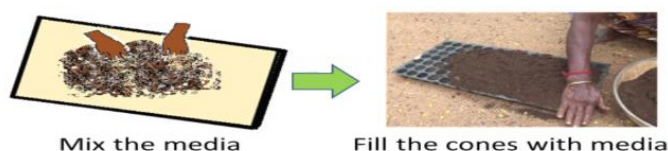


F-1

## B. Media Preparation & Filling

1. Mix the media thoroughly on a poly sheet.
2. Filling of Trays with media prepared.

## Media Preparation & Filling



## C. Seed Sowing & Water Application

1. Fill the trays with media leaving upper 1/3-part empty of each plug.

Tips: Selection of tray depends upon the size of seed. Small seeds like Tomato, Capsicum etc. should be sown in plug trays having small cones and vice versa.

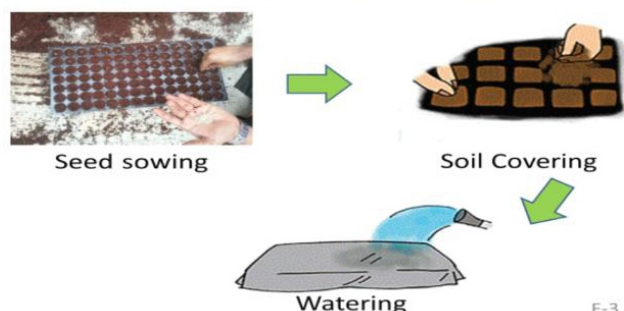
2. Put one or two seeds in the center of each plug.
- Tips: Seed should be placed in centre so that its roots can attain proper growth.

3. Cover the seed again with the media.

4. Cover the surface of trays with newspaper or cloth.

5. Irrigate the trays immediately after covering.
- Tips: Watering should be done by putting net/cotton cloth on the trays; direct watering could upset the sown seed. Do watering daily.

## Seed Sowing & Water Application



F-3

## D. Protections of the Trays

Keep the plug trays inside the poly house or low poly-tunnel or in open as per the availability of the space.

Tips: By keeping plug trays inside poly house or low poly-tunnel, can save the seedlings from severe coldness due to higher temperature inside as compared to outside, and plant growth becomes faster, and nursery will be ready earlier.

Tips: For summer season, it is recommended to use shade net low tunnel to reduce the temperature inside.

Tips: To promote root growth, put the plug trays on the board.

## Protections of the trays



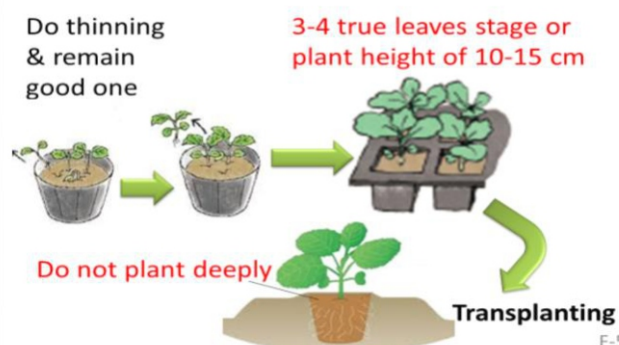
F-4

## E. Thinning & Transplanting Thinning:

Thin out weak plants and remain good one. Additional fertilizer application : Foliar spray of fertilizer is required if the seedlings are to be stored for a longer time

Transplanting: Seedling raised by this method will be ready for transplanting at 3-4 true leaves stage or plant height of 10-15 cm. Evening time is better for transplanting

## Thinning & Transplanting



F-5







## “GLIMPSE OF ACHIEVEMENTS”



**TRAINING ON ORIENTATION AND NEED ASSESSMENT AT FIS SHEGLU UNDER BPMU KULLU**



**INSPECTION OF CONSTRUCTION WORK AT FIS TREMBLA KUHL UNDER BPMU DHARAMSHALA**



**FEASIBILITY CHECKING AT FIS SALLI TO RIRKUMAR UNDER BPMU DHARAMSHALA**



**AWARENESS CAMP AT FIS NEHARTI BHAGOT UNDER BPMU NAHAN**



**VISIT TO SUB PROJECT BHARALI REGARDING FORMATION OF KVA BY BPMU BILASPUR**



**REVIEW OF ACTIVITIES OF FPC BAIJNATH BY BLOCK PROJECT MANAGEMENT TEAM, PALAMPUR**

**HIMACHAL PRADESH CROP DIVERSIFICATION  
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