

**Report  
on  
Crops / Technologies under Demonstration during Rabi 2021-22  
and  
Coverage of Kharif 2022**

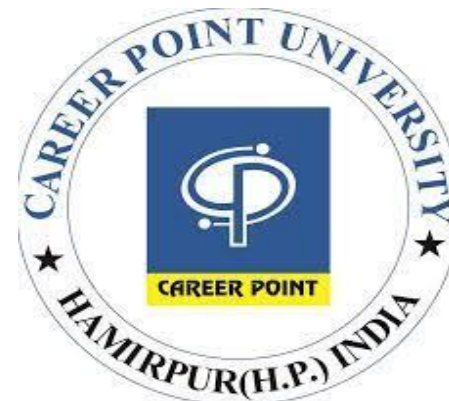


**Submitted By:  
Dr. Gulshan Kumar  
Nodal Officer, CPU Hamirpur, HP**

# About CPUH.....

## Vision

- **To achieve academic excellence through community based Participatory action Research**
- **By providing state of the art academic infrastructure/learning resources**
- **Updated curriculum as per contemporary need of the market and Social needs**
- **A platform for need based research leading to patents, entrepreneurship, innovations & extension services.**



## Mission

- "To promote global competitiveness by providing multiple opportunities for excellent education, applied research, academic innovation and service to the humanity".



# Directorate of Community Development, CPUH

**Established:** 2016

**Adopted:** Backward  
75 Village in Kangra, Mandi,  
Una, Bilaspur & Hamirpur

## **Objectives:**

- Economic Development
- Social Reform & Upliftment of Rural Populace
- Better opportunity for innovative & progressive Farmers



# Seeds Distributed (Rabi-2021-22)



**Seeds distribution of Rabi Crops at Different Adopted Backward Villages under Directorate of Community development,CPUH**

## **Rabi-Seeds from Indian Agricultural Research Institute, 2021-22)**

<b>Name of Crop</b>	<b>Variety</b>	<b>Quantity</b>	<b>Remarks</b>
<b>Wheat</b>	HS 562	120 kg	Resilient to Rainfed area
<b>Mustard</b>	P.M.28	4 KG	Resilient to Rainfed area
<b>Mustard</b>	P. Tarak	4 KG	Resilient to Rainfed area
<b>Peas</b>	Pusa Pragti	10 kg	Resilient to Rainfed area
<b>Spinach</b>	All Green	2 kg	Resilient to Rainfed area
<b>Spinach</b>	Pusa Bharati	1 kg	Resilient to Rainfed area
<b>Carrot</b>	P- Rudhira	0.5 kg	Resilient to Rainfed area

# Performance of Rabi Crop Demonstration

Crop	Variety	No. of Demo.	Area (ha)	Yield obtained in Demons. (q/ha)			Av. yield of local check q/ha	% increase in yield over local check
				Highest	Lowest	Ave		
Wheat	HS 562	15	1.02	25.5	21.2	23.6	20.5	15.12
Mustard	P.M.28	16	1.0	9.9	8.8	9.5	8.2	15.85
Mustard	P. Tarak	10	1.0	9.8	8.5	9.2	8.1	13.58
Peas	Pusa Pragti	30	0.15	68	58	65	56	16.07
Spinach	All Green	40	0.14	164	131	150	124	20.97
Spinach	Pusa Bharati	25	0.06	168	132	156	124	25.81
Carrot	P- Rudhira	10	0.1	240	212	220	189	16.40

**Rabi Crop Demonstrations, 2021-22 at CPUH**



# Economic Impact Assessment:

Variety	Average cost of cultivation (Rs/ha)		Average gross return (Rs/ha)		Average net return (Rs/ha)		Benefit cost ratio	
	Demo. plot	Local	Demo. plot	Local	Demo. plot	Local	Demo. plot	Local
HS 562	32000	30000	92040	79950	60040	49950	2.88	2.67
P.M.28	20000	18000	71750	63300	51750	45300	3.59	3.52
P. Tarak	20000	18000	69800	62650	49800	44650	3.49	3.48
Pusa Pragti	55000	54000	292500	252000	237500	198000	5.32	4.67
All Green	38000	35000	225000	186000	187000	151000	5.92	5.31
Pusa Bharati	40000	35000	234000	186000	194000	151000	5.85	5.31
P- Rudhira	65000	60000	330000	283500	265000	223500	5.08	4.73

**Demonstrations of Rabi Crops, 2021-22 at Adopted Villages of CPUH**

# Coverage of Kharif Season (June-October) 2022

Crop-Variety	Quantity	Area/ No. of Farmers
Bhindi Seed A-5	0.50 Kg	0.02ha / 10 Farmers
Bottle Gourd P. Naveen	0.50 Kg	0.16 / 10 Farmers
Bitter Guard Pusa Hybrid 4	1.0 Kg	0.24 ha / 12 Farmers
Cowpea P. Dhami	0.10 Kg	0.01 ha / 5 Farmers
Chulai P. Kiran	0.10 Kg	0.01 ha / 5 Farmers
Chulai PL.C	0.10 Kg	0.01 ha / 5 Farmers
	5.0 Kg	0.16 ha / 5 Kg
Paddy Seed PB 1509		
Paddy Seed PB 1692	5.0 Kg	0.16 ha / 5 Kg



# Demonstrations on Kharif Crops at Adopted Villages





## Demonstrations on Kharif Crops(Paddy Seed PB 1692) at Adopted Villages





## Demonstrations on Kharif Crops (PB 1509; A-5) at Adopted Villages





# Demonstrations on Kharif Crops (Okra A-5) at Adopted Villages





# Demonstrations on Kharif Crops (P. Naveen) at Adopted Villages



# Demonstrations on Kharif Crops(Bottle Gourd P. Naveen; Okra A-5) at Adopted Villages







Need of the hour!



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**SAVE BLUE**

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**Thanks**

**Nodal officer: Dr. Gulshan Kumar**

1. No. of the village covered:22

2. Tehsil: Bhoranj

3. District: Hamirpur

4. Type of farm situation: Rainfed/Irrigated

5. Type of soil: Clay Loamy

Rabi Seasonal Crops 2021-22 Progress report:

S. No.	Crop	Variety	No. of Demo.	Area (ha)	Yield obtained in Demons. (q/ha)			Av. yield of local check q/ha	% increase in yield over local check
					Highest	Lowest	Ave.		
i	Wheat	HS 562	15	1.02	8.7	6.5	7.2	5.8	25
ii	Mustard	P. 4.28	16	1.0	6.1	5.9	6.0	5.0	20
iii	Mustard	P. Trades	10	1.0	6.5	5.0	5.8	4.9	18
iv	Peas	Pusa Pragti	30	0.15	35	31	33	27	22
v	Spinach	All Green	40	0.14	90	80	85	70	21
vi	Spinach	Pusa Bharati	25	0.06	86	80	83	70	16
vii	Carrot	P- Rudhira	10	0.1	24	20	22	19	16

## 7. Economic Impact (Continuation of previous table)

Variety	Average cost of cultivation (Rs/ha)		Average gross return (Rs/ha)		Average net return (Rs/ha)		Benefit cost ratio	
	Demo. plot	Local	Demo. plot	Local	Demo. plot	Local	Demo. plot	Local
HS 562	20000	19400	37500	29000	17500	9600	1.9	1.4
P. 4.28	13500	11500	32550	20300	19050	3800	2.4	1.7
P. Trades	13500	11500	37100	23750	23600	11250	2.7	1.9
Pusa Pragti	37500	35000	138000	90000	100500	55000	3.8	2.5
All Green	35000	35000	108000	90000	73000	55000	3.2	2.5



Pusa Bharati	32500	32000	98000	75000	65500	43000	3.0	2.3
P- Rudhira	29500	29000	89000	60000	59500	31000	3.0	2.0

## 8. Observation and farmer's feedback on the demonstrated technologies

S. No.	Technology parameters	IARI Varieties						Local check
		HS 562	P. 4. 28	P. Trades	Pusa Pragti	All Green	Pusa Bharati	
1	Crop duration	100-110days	90-100 days	100-110days	90-100 days	90-100 days	90-100 days	
2	No. irrigation given	4-5 times irrigation in a week	5-6 times irrigation in a week	4-5 times irrigation in a week	4-5 times irrigation in a week	4-5 times irrigation in a week	2-3times irrigation in a week	
3	Application of FYM (q/ha)	4.0	4.0	4.0	4.0	4.0	4.0	
4	Application of ferti. kg/ha							
	Urea	-----	-----	-----	-----	-----	-----	
	DAP	-----	-----	-----	-----	-----	-----	
	SSP	-----	-----	-----	-----	-----	-----	
	MOP	-----	-----	-----	-----	-----	-----	
	ZN	-----	-----	-----	-----	-----	-----	
	Other	-----	-----	-----	-----	-----	-----	
5	Extent of insect pest infestation	-----	-----	-----	-----	-----	-----	
6	Extent of incidences of disease	-----	-----	-----	-----	-----	-----	
7	Extent of infestation of weed	-----	-----	-----	-----	-----	-----	
8	Market rate Rs/q	@19 rs per Kg	@50 rs per kg	@25 rs per kg	@45 rs per kg	@45 rs per kg	@50 rs per kg	
9	Best trail of the var.	Short duration and High yielding						
10	Specific problem of the varieties		-	nil		nil		-
11	Potential for adoption and recommendation	Very good, farmer prefer tis		Very good, farmer prefer tis		Very good, farmer prefer tis		

		variety than local		variety than local		variety than local		
12	Any other important observation							-

Farmers Feedback:

- All IARI Varieties are highly yielding and economic. More demand has been required by adjoining farmers of different Panchayats.
- Farmers are very happy and required to more information regarding hybrid seeds.

#### **IARI Kharif Crops Seed Demonstration June to October, 2022**

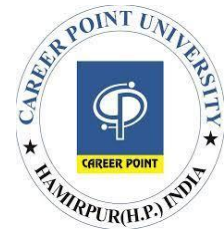
<b>S. No.</b>	<b>Name of variety</b>	<b>Variety</b>	<b>Quantity</b>	<b>Remarks</b>
1	Bhindi Seed A-5	A-5	0.50 Kg	Effective and On process
2	Bottle Gourd P. Naveen	P. Naveen	0.50 Kg	Effective and On process
3	Bitter Guard Pusa Hybrid 4	Pusa Hybrid 4	1.0 Kg	On Progress
4	Cowpea P. Dhami	P. Dhami	0.10 Kg	On process
5	Chaulai P. Kiran	P. Kiran	0.10 Kg	On process
	Chulai PL.C	PL.C	0.10 Kg	On process
6	Paddy Seed PB 1509	PB 1509	5.0 Kg	On process
7	Paddy Seed PB 1692	PB 1692	5.0 Kg	On progress

**Demonstration Activities Photographs of Kharif Season 2022**

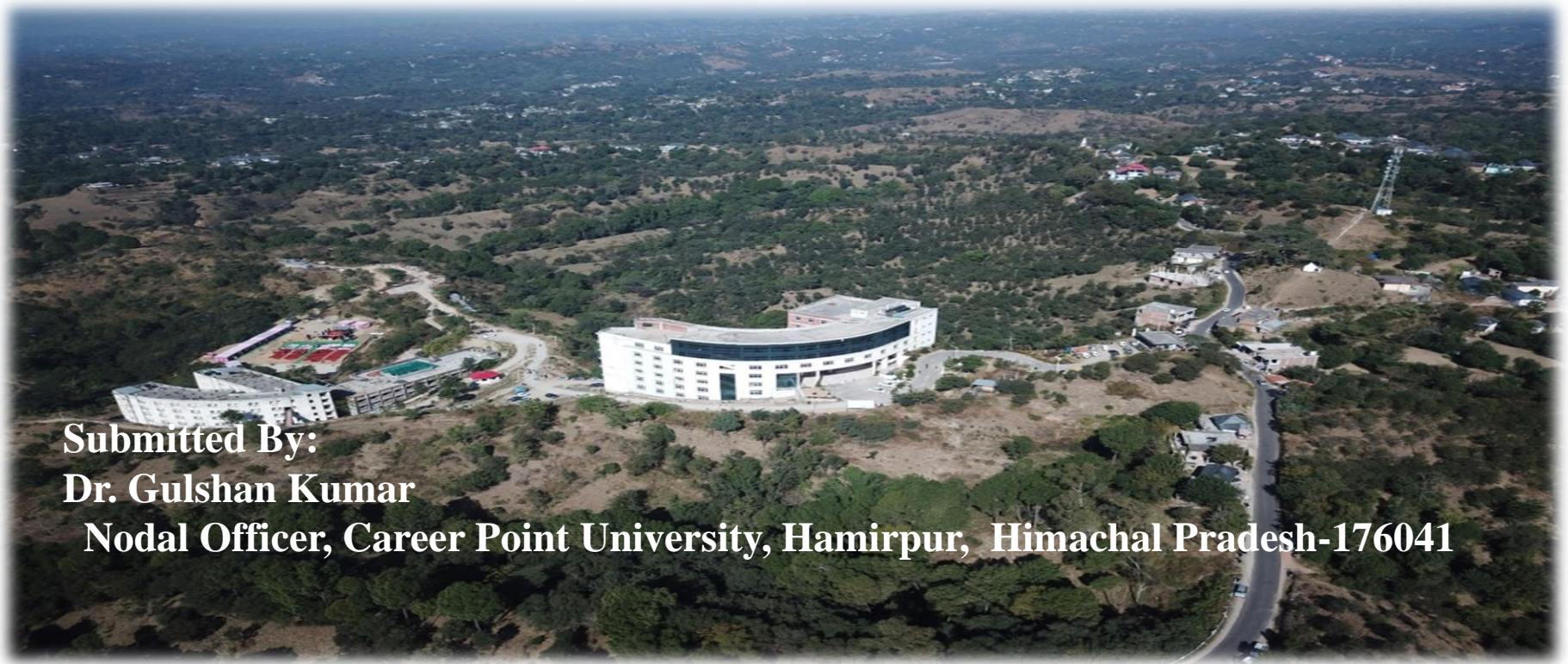








# **A Report on Crops / Technologies under Demonstration IARI- Performance of Rabi 2022-23 and coverage of Kharif, 2023**



**Submitted By:**

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# About CPUH.....



## Mission

"To promote global competitiveness by providing multiple opportunities for excellent education, applied research, academic innovation and service to the humanity".

# Directorate of Community Development, CPUH

**Established:** Community Development Program, 2016

**Adopted:** Backward 24 Village, Panchayat Mehal Under UBA & 75 Villages-75 Blocks

## Objectives:

- Natural Resource Management
- Crop Diversification
- Livestock Management
- Institutional Intervention
- Economic Development & Social Reforms
- Better opportunity for progressive Farmers





# Performance of Rabi Crop Demonstrations

Crop	Variety	No. of Demo.	Area (ha)	Yield obtained in Demons. (q/ha)			Av. yield of local check q/ha	% increase in yield over local check
				Highest	Lowest	Ave		
Mustard Seed	PM 30	16	0.6	17.50	10.80	14.15	9.50	48.93
Onion Seed	Pusa Madhavi	10	0.1	278.90	210.16	244.53	199.90	22.33
Onion Seed	Pusa Red	10	0.1	256.00	204.75	230.36	196.45	17.26
Carrot Seed	Pusa Rudhra	5	0.18	338.65	280.80	309.73	245.00	26.42

# Rabi Crop Demonstrations, 2022-23

# Economic Impact Assessment

Variety	Average cost of cultivation (Rs/ha)		Average gross return (Rs/ha)		Average net return (Rs/ha)		Benefit cost ratio	
	Demo. plot	Local	Demo. plot	Local	Demo. plot	Local	Demo. plot	Local
Mustard Seed	24750	20900	78825	62250	54075	41350	2.18	1.98
Onion Seed	61050	54750	293406	239880	232356	185130	3.80	3.38
Onion Seed	61050	54750	276431	235740	215381	180990	3.52	3.30
Carrot Seed	95500	93800	309730	245000	214230	151200	2.24	1.61

**Demonstrations of Rabi Crops, 2022-23**

# Coverage of Kharif Crops, 2023

S. No.	Name of Crop	Variety	Quantity	No. of Demonstrations	Remarks
1	Paddy	PB 1692	2 Kg	02	Better Yield in Rainfed District
2	Bhindi/Okra	Pusa A-5	1 Kg	05	High Yielding Variety & yet in the field
3	Bottle Gourd	Pusa Samridhi	0.50 Kg	05	Less susceptible to Fruit fly & yet in the field
4	Cowpea	Pusa Sukomal	1 Kg	04	High Yield in rainfed Condition
5	Brinjal	Pusa Vaibhav	0.10 Kg	03	High Yielding Variety & yet in the field



# Glimpses of Demonstrations on Rabi & Kharif Crops at Adopted Villages







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**Dr. Gulshan Kumar Sharma**  
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**Thanks**

## **REPORT ON DEMONSTRATION OF OIL SEED MUSTARD AT MEHAL PANCHAYAT**

Under the **UNNAT BHARAT ABHIYAN** students of Division of Hospitality & Hotel Management gone to the Mehal Panchayat for demonstration and distribution of oil seed GSC 7 and HPGS 1 variety of mustard crop.

Mr. Mohit Atri with students of BHMCT 1st semester gone to the mehal panchayat introduce the village people with the variety of mustard crop and also share tips with the village people how they gain more yield from these variety of mustard crop.

At the end up-pradhan thanked all the students and faculty for introducing such crop which will help the people of village a lot and in future they can grow it for commercial purpose as well.





Mohit Atri

Assistant Professor

Division of Hospitality & Hotel Management

Career Point University Hamirpur