



**Haryana Government**

**Horticulture Department, Haryana**



**Annual Administrative Report  
2021-22**

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## **REVIEW OF ANNUAL ADMINISTRATIVE REPORT OF HORTICULTURE DEPARTMENT, HARYANA FOR THE YEAR 2021- 22**

Horticultural crops are high value crops providing much needed nutritious food to human beings. These commodities have great potential for domestic marketing & export as fresh and value added products. Horticulture has gained importance as a separate, viable economic activity. With the sustained efforts of the Department, considerable progress has been made in fruits, vegetables, flowers and mushroom cultivation.

### **1. Area and Production of Horticulture Crops:**

Horticulture crops cover 4.13 lakh hectare area which is 6.28 % of the gross cropped area of the State. Production of horticultural crops in the State was 67.06 lakh MT during the year 2021-22.

- i) **Fruit Cultivation:** Total area under fruit is 73075 hectare in the year 2021-22 with production of 12.64 lakh MT.
- ii) **Vegetable Cultivation:** Total area under Vegetables is 329440 hectare in 2021-22 with production of 53.41 lakh MT.
- iii) **Spices:** Total area under Spices is 8586 hectare in 2021-22 with production of 0.73 lakh MT.
- iv) **Medicinal and Aromatic Plants:** Total area under Medicinal & Aromatic Plants is 306 hectare in 2021-22 with production of 0.0035 lakh MT.
- v) **Flower Cultivation:** Total area under Flower Cultivation is 1692 hectare in 2021-22 with production of 0.17 lakh MT.
- vi) **Mushroom :** In the year 2021-22, a production of 10745 MT of mushroom was achieved.

### **2. National Horticulture Mission:**

National Horticulture Mission Sharing (60:40) Central Government sponsored scheme was implemented in 19 districts in the state of Haryana during the year 2021-22. Total financial provision was kept of Rs. 10600 lakhs. Various components covered under this, such as area expansion under fruits, establishment of big and small modern nurseries, Integrated Pest Harvest Management, flowers, spices, medicinal and aromatic production, rejuvenation of old plants, training of farmers, production of vegetable seeds and mushroom etc. During the year 2021-22 an amount of Rs. 7924.52 lakhs was spent.

### 3. Focus on Protected and vertical Cultivation:

For raising disease free nursery, off - season and pesticide residue free vegetables, green house technology can play a vital role. Govt. is giving more focus on protected and vertical cultivation with total subsidy of 65% to general farmers and 85 % to S.C. farmers and so far 834.25 ha. area under bamboo stacking, 150.06 hectare area under protected structures and 761.38 hectare area under low-Tunnels and 876.05 hectare under mulching has been covered in 2021-22. Category wise progress is summarized as below:

Sn.	Component	2021-22	
		Phy. (in ha.)	Fin. (Rs.in lacs)
1	Poly House/Net House	150.06	5257.03
2	High Value Vegetable	75.44	538.69
3	Low Tunnels	761.38	601.99
4	Mulching	876.05	129.12
5	Bamboo Stacking	834.25	566.72
	<b>Total</b>	<b>2697.18</b>	<b>7093.55</b>

### 4. Micro-Irrigation:

During the year 2021-22 an area of 4645 hectare has been covered under horticulture crops with the expenditure of 3141.75 Lakh.

### 5. Crop Cluster Development Programme (CCDP):

New scheme namely Crop Cluster Development Program (CCDP) has been launched with budget outlay of Rs. 510.36 crore for a period of three years. Under this program, in each cluster marketing infrastructure and post-harvest management facilities like pack house, primary processing centre, grading-sorting machine, storage facilities, refer vans and quality control facilities are created to have forward and backward linkage for effective marketing of horticulture produce. Brief is as under:-

Particulars		Nos.
1	Integrated Pack houses established upto 2021-22\	10
2	Integrated Pack houses under progress upto 2021-22	45

**6. Formation of Farmers Producer Organizations under Centre Sector Scheme for Formation & Promotion of 10,000 FPOs:**

Government of India has launched a new Centre Sector Scheme for “Formation and Promotion of 10,000 Farmer Producer Organizations (FPOs)” in the Country in July, 2020 in order to provide adequate handholding and professional support to develop economically sustainable FPOs while facilitating adequate market and credit linkages. The work relating to formation and promotion of FPOs is to be undertaken through Cluster Based Business Organizations (CBBOs). SFAC-Haryana has engaged 7 CBBOs for undertaking work relating to formation and promotion of 50 FPOs allotted to SFAC-H for the year 2020-21. By the end of FY 2021-22, a total of 46 FPOs were formed under Centre Sector Scheme, for which a budget of Rs. 2.92 crore has been utilized out of Rs. 5.50 crore which was received during the year 2021-22. The status of FPOs formed by SFAC-Haryana in the State under the scheme is given as under:

Farmer Producer Organizations	: 46 FPOs
Shareholders	: 7989 nos.

**7. Establishment of Center of Excellence:**

Center of Excellence have been established with the objective of demonstration of latest technologies available nationally and internationally. New cultivars are being demonstrated for adoption in the region and farmers are being regularly given exposure and trained over here. Further, quality fruit planting material and soilless vegetable seedlings are being provided to the farmers for better adopting and higher production and there by increase in their income.

**8. Bhavantar Bharpayee Yojana (BBY):**

Haryana Govt. has started Bhavantar Bharpayee Yojana (BBY) in the State from 01.01.2018 to incentivize farmers to offset the losses during low prices in the market for perishable horticultural commodities. This is a unique scheme in India. This scheme also encourages the farmers towards diversification and to expand the area under horticulture crops. Keeping in view of the success of the scheme, now 21 horticulture crops have been included under the scheme. The protected price of each crops has been fixed. To take the advantage of scheme farmer can register his area and crop on Meri Fasal Mera Byora Portal. If the wholesale price (BBY) rate falls below the protected price, then the amount is paid to the farmer directly into the account of a farmer. Since start of this

scheme from January 2018 total no. of 5403 farmers benefited under this scheme and an amount of Rs. 1412.22 lakh has been released.

#### **9. Establishment of Horticulture University:**

To provide quality education linked with enhancing learning outcomes, the work of Maharana Pratap Horticultural University has been started at Karnal along with establishment of three Regional Research Stations in Chansoli (Ambala), B.Raiya (Jhajjar) & Badhana (Jind). The work of boundary wall, earth filling, main gate and precast boundary wall has been completed of main campus at Anjanthali, Karnal. The work of boundary wall, Research farms and building etc. at these Regional Research Stations are under progress.

For this an amount of Rs. 97.40 crore has been released out of total budget approved by SFC of Rs. 486.59 crore. The Post Graduate Courses for students has also been started from academic year 2017-18

#### **10. Good Agriculture Practices (GAP):**

The State Govt. was decided to evaluate pesticides residue level in fruits & vegetables and adoption of Good Agricultural Practices for the state of Haryana with the objective to minimize the use of pesticide in Haryana by adopting Good Agricultural practices by ensuring environmental, economic and social sustainability. For the above purpose State Govt. was started state plan scheme namely Good Agricultural Practices and Effect of Pesticide Residue on Fruits & Vegetables in the year 2012-13 with the objective to educate farmers and entrepreneur about minimum use of pesticides in Haryana by adopting Good Agricultural Practices by ensuring environmental, economic and social sustainability. During 2020-21 Govt. has merged Plan scheme for Good Agriculture Practices and Effect of Pesticides Residues on Fruits & Vegetables (SB No. 61) in to Integrated Horticulture Development (IHD) Scheme.

##### **Activities carried out under GAP during 2021-22:**

- a. For biological control of insects/pests; pheromone and sticky traps were provided to farmers on subsidy @ 75 % for 266.39 ha. area during 2021-22.
- 1) A special two year project was launched by Department of Horticulture in collaboration with NCIPM-ICAR, Govt. of India on **“ICT based E-Pest Surveillance and Advisory Services for Horticultural crops in Haryana”** in nine selected districts i.e. Karnal, Kurukshetra, Panipat, Sonapat, Gurugram, Mewat, Fatehabad, Sirsa and Hisar in 2018. The Govt. of Haryana was extended this ongoing project for two more years i.e. 2022-23 & 2023-24 with three more districts viz. kaithal, faridabad and Yamuna Nagar along with one new crops viz. onion. This is basically internet based system of capturing pest information from field and producing-instant

and customized pest report to the plant protection expert for further release of advisory to farmers through SMS for timely management of insect-pest & diseases in horticultural crops.

**Progress under this Project up to 2021-22 is as under:**

- Nos. of selected district : 15
- Nos. of selected villages for data collection : 85
- Nos. of farmers registered for advisory : 11949
- Area covered under selected crops (acre) : 33863
- Nos. of advisory issued : 6342
- Nos. of SMS sent to registered farmers : 14,56,418

- 2) Haryana Govt. has also approved a special project entitled “**Area- wide validation of adaptable and deliverable Integrated Management Technology for Fruit Fly in Cucurbitaceous Vegetables crops**” which will be implemented by Department of Horticulture, Haryana in collaboration with NCIPM-ICAR, New Delhi on pilot basis in the selected Baagwani Villages i.e. Padhana, Ganger, Sandheer, Rambha, Samora, Takhana & Shamgarh in district Karnal for Cucurbitaceous crops under (IHD) scheme. The main objective of this project is to demonstrate the effectiveness of Integrated Pest Management (IPM) Technology for Fruit Fly in Cucurbits in farmers’ participatory mode at village level.

**Progress under this project up to 2021-22 is as under:**

- Nos. of selected district : 1
- Nos. of selected villages : 7
- Nos. of farmers registered : 460
- Area covered (acre) : 814
- Total traps used : 720
- Neem oil : 100

**11. Agriculture Human Resource Development (AHRD):**

Under skill mission programme department has signed the MoU with Agriculture Skill Council of India (ASCI) and conducting Trainings and Skill development programme at various horticulture centres i.e. Horticulture Training Institute (Karnal), Centre of Excellence for Vegetable & Fruits (Karnal & Sirsa), Centre for Sub-Tropical Fruits (Kurukshetra), Integrated Beekeeping Development Centre (Kurukshetra).

No. of persons/farmers given training are as under:

- Weekly training : 3663 farmers
- Courses : 195 students

## **CRITIQUE OF THE ANNUAL ADMINISTRATIVE REPORT OF THE DEPARTMENT OF HORTICULTURE, HARYANA FOR THE YEAR 2021-22**

Horticultural crops are cash crops and per unit return is greater than traditional agricultural crops. With a focus to double the income of farmers, horticulture played a major role in enhancing their income. Govt. has launched no. of schemes and provided greater incentives to attract farmers towards horticulture to make it viable economic activity. With the sustained efforts of the department, considerable progress had been made in fruits, vegetables, flowers, mushroom, protected cultivation, etc.

The overall area under horticulture has increased to 4,13 lakh ha. in 2021-22. Similarly, the production of horticultural crops has increased to **67.06** lakh MT in 2021-22.

To strengthen backward & forward linkages and effective marketing of horticulture produce Govt. has launched a Crop Cluster Development, Programme during 2017-18 with an amount of Rs. 510.36 crore. Under this scheme to promote collective marketing of horticulture produce and increasing income of farmer, a total of 46 Farmer Producer Organizations had been formed and promoted with 7989 shareholders

With a view to support horticulture perishable commodities and to cover the risk of farmers, Govt. has launched Bhavantar Bharpayee Yojana on 30<sup>th</sup> December, 2019 and in the year 2021-22 Total 56089 farmers were registered for an area of 120466 acre. During this period an amount of Rs. 377 lakh was distributed as incentive to 1208 famers.



## **Detailed report of introduction, Administration and Departmental Schemes of Horticulture Department Haryana during 2021-22**

### **INTRODUCTION**

The state of Haryana has emerged as a pioneer state in the field of horticulture after agricultural diversification. In the state, rigorous efforts are also being made to promote the production of flowers and mushrooms along with fruits and vegetables. A special attention has been given to this area in the state due to special attraction of farmers towards horticulture. Horticulture has an important role in raising the actual level of nutrition in food and economic level of farmers and in improving the environment.

After the formation of the Horticulture Department, horticulture development has got special contribution in implementing various schemes and extension related activities. In the 12<sup>th</sup> Five Year Plan, additional funds were provided by the Government of India for the promotion of horticulture in the state and during the year, the State Government made the most use of the additional funds given under the schemes of the Government of India

### **ADMINISTRATION**

The administration of the Department was run by Director General, Horticulture in the year 2021-22. He was assisted by one Additional Director, three Joint Directors and 4 Deputy Directors at the headquarters level in day-to-day work. Apart from this, the activities related to Horticulture in various districts of the State were also looked after by him. These Deputy Directors were supported by the Class-II officers and the staff working under them at the Headquarter level.

He was assisted by One Joint Director- cum- principal HTI Karnal and 9 Deputy Directors at field level working with their supporting staff at the Center of Excellence for the production of fruit plants and seeds of vegetables.

At the district level, the District Horticulture Officers and Subject Matter Specialist were deployed with their staff members, whose details are given in the Annexure-A. The Haryana State Horticulture Development Agency and Small Farmers Agribusiness consortium Haryana are two subsidiary agencies with the Department of Horticulture. All types of schemes related to horticulture were implemented. Horticulture Development Officers were appointed to promote production of fruits, vegetables, flowers, mushrooms and spices etc. at the block level.

## Staff Position

The details of the sanctioned, filled and vacant posts in the Directorate and field during the year 2021-22 are as under: -

### Directorate: -

Posts	Number of Sanction post	Number of filled post	Number of vacant post
<b>Class -I</b>	12	06	06
<b>Class - II</b>	34	27	07
<b>Class- III</b>	65	35	30
<b>Class- IV</b>	19	15	
<b>Total</b>	130	83	47

### Field:

Posts	Number of Sanction post	Number of filled post	Number of vacant post
<b>Class- I</b>	10	05	05
<b>Class- II</b>	241	154	87
<b>Class- III</b>	221	143	78
<b>Class- IV</b>	380	262	118
<b>Total</b>	852	564	288

## **Horticulture Department 2021-22**

### **Departmental Schemes**

**Department has launched the State Scheme and Central Plan Schemes (on sharing basis) for increase in production of Horticulture crops as under:-**

Sn	Name of the Scheme	2021-22 (BE)	RE	Exp. Upto 01.04.2021 to 31.03.2022	%age (As per RE)
	<b>Part-I State Plan Schemes</b>				
1	P-01-27-2401-51-119-97-51- Scheme for Various Horticulture in Haryana	5131.50	5582.25	5248.22	94.02
2	P-01-27-2401-51-119-92-98- Scheme for Agricultural Human Resources Development Agricultural Human Resources Development (92)	400.00	250.00	262.42	104.9
3	P-01-27-2401-51-119-70-51- Scheme for Demonstration cum- food Processing/Packaging Teachnology in Haryana Demonstration-cum-Food Processing Technology (70)	95.90	54.45	45.12	82.9
4	P-01-27-2401-51-119-65-51- Scheme for Integrated Horticulture Development in Haryana State Integrated Horticulture Development (65)	6000.00	5500.00	5929.76	107.8
5	P-01-27-2401-51-119-58-51- Scheme for Promotion of Advanced National & International Technologies in Horticulture Sector Promotion of Advanced National & International Technologies in Horticulture (58)	3936.94	2800.00	2415.58	86.27
6	P-01-27-2401-51-119-58-51- Scheme for Promotion of Advanced National &	500.00	500.00	487.76	97.55

	International Technologies in Horticulture Sector Integrated Horticulture Development Plan Scheme for Scheduled castes Families (98)				
7	P-01-27-2401-51-119-53-51- On Farm & Marketing Support of Horticulture Farmers (54)	6000.00	3500.00	3500.00	100.0
8	P-01-27-2401-51-119-53-51- Scheme for Establishment of Horticulture University Establishment of Horticulture University (53)	8500.00	1.00	3825.00	100.0
9	P-01-27-2401-51-190-99-51- Scheme for Bhavantar Bharpayee Yojana in Haryana State Scheme for Bhavantar Bharpayee Yojana (99)	1000.00	100.00	0	0.0
10	P-01-27-2401-51-119-71-51- Scheme for National Project on Promotion of Organic Farming Renamed as Organic Farming and Zero Budget Natural Farming Practices Scheme for National Project on Promotion of Organic Farming Renamed as Organic Farming and Zero Budget Natural Farming Practices (71)	1000.00	0.00	0	0.0
11	P-01-27-2401-51-119-63-51- Plan Scheme Mukhyamantri Bagwani Bima Yojana (MBBY)	1000.00	1000.00	1000.00	100.0
	<b>Total Part-I</b>	<b>33564.34</b>	<b>19287.70</b>	<b>22713.86</b>	<b>117.76</b>
	<b>Part-II: Central Plan Schemes (Sharing Basis)</b>				
12	P-02-27-2401-51-119-69-51- Scheme for National Horticulture Mission	12000.00	9000.00	6809.26	75.7
13	P-02-27-2401-51-789-88-51- Scheme for National Horticulture Mission for Scheduled Caste Farmers National Horticulture Mission, SCSP (88)	3000.00	1600.00	1115.26	69.7
	<b>Total (General+SCSP)</b>	<b>15000.00</b>	<b>10600.00</b>	<b>7924.52</b>	<b>74.8</b>
14	P-02-27-2401-51-119-50-51- Scheme for Silk Samagra Integrated Scheme for Development of Silk Industry (ISDSI) Scheme for Silk Samagra, General (50)	75.00	20.10	20.09	100.0
15	P-02-27-2401-51-789-84-51-	60.00	41.95	32.81	78.2

	Scheme for Silk Samagra Integrated Scheme for Development of Silk Industry (ISDSI) for Scheduled Caste Farmers Scheme for Silk Samagra, SCSP (84)				
	<b>Total (General+SCSP)</b>	<b>135.00</b>	<b>62.05</b>	<b>52.90</b>	<b>85.3</b>
	<b>Total Part-II</b>	<b>15135.00</b>	<b>10662.05</b>	<b>7977.42</b>	<b>74.8</b>
	<b>Total Part-I and Part-II</b>	<b>48699.34</b>	<b>29949.75</b>	<b>30691.28</b>	<b>102.48</b>
	<b>Part-III: Capital (Civil work)</b>				
16	P-02-27-2401-51-789-88-51- Scheme for National Horticulture Mission for Scheduled Caste Farmers New plan scheme for establishment of India international Market Ganaur	1.00	1.00	0.00	0.0
17	P-01-27-4401-51-190-97-51-N-V- Equality capital of India international Horticulture Market Ganaur, Sonipat	1.00	0.00	0.00	0.0
18	P-01-45-6401-51-190-96-51-N-V- Scheme for providing loan to HSAMB for the establishment of Apple, fruit & Vegetable Market	100.00	5000.00	3154.38	63.09
19	P-01-45-6401-51-190-97-51-N-V- Scheme for providing loan to HIHMC for the establishment of India international Horticulture Market Ganaur, Sonipat	100.00	8000.00	0	0
20	1-1-0000-6401-51-800-90-51 Financial Assistance to Horticulture University.	0.00	4000.00	0	0.0
	<b>Total Part-III</b>	<b>202.00</b>	<b>17001.00</b>	<b>3154.38</b>	<b>18.55</b>
	<b>G. Total (Part-I+II+III)</b>	<b>48901.34</b>	<b>46950.75</b>	<b>33845.66</b>	<b>72.09</b>

## **Horticulture Department, Haryana Year 2021-22**

### **Extension program**

The Horticulture Department is in coordination with the Haryana Agricultural University and various research institutes of the country, who provide information to the department by conducting research about fruits, vegetables and new technologies like micro irrigation and polygreen houses. Achievements of horticulture development program is as under: -

#### **Fruit development**

In the year 2021-22, the area under fruits has increased to 73075 hectare, which is 1615 hectare more from the year 2020-21. Similarly, the production of fruits has increased to 1263700 MT under the year 2021-22, which is 32658 MT higher than in the year 2020-21

#### **Area & Production of fruit crop**

Name of fruit	Achievement 2021-22	
	Area (in Ha.)	Production (MT)
Citrus Crops	24398	570883
Mango	9647	108770
Guava	15594	238514
Chiku	1810	21828
Aonla	2175	17092
Other	19451	306633
Total	73075	1263720

### **Production of Fruit Plants**

- Deptt. Of Horticulture is actively working under **Indo-Israel work plan**, Horticulture Department has established four Center of Excellence viz. Center of Excellence for Vegetables, Ghraunda, Karnal; Center of Excellence for Fruits, Mangiana, Sirsa; Center for Sub-tropical Fruits, Ladwa, Kurukshetra; Integrated Bee Keeping Development Center, Ramnagar, Kurukshetra. Apart from this, Centre of Excellence on Semi-arid Horticulture crops at village Gignow, Block Loharu, District Bhiwani is under progress.
- Under **State plan**, Horticulture Department has also established centers viz. Potato Technology Centre, Shamgarh, Centre of Excellence for Guava, Bhuna, Multi Crops Demonstration Centre, Barwala, Hisar, High Tech Production Unit at Rohtak and Gurugram; Integrated Horticulture Development Center Sundrah (Narnaul) and Hodal (Palwal) & Model Floriculture Centers, Panchkula. Apart from this, Centre of Excellence on Flowers at Munimpur, Distt. Jhajjar and Centre of Excellence on Kharif Onion at Pinangawan, Nuh is under progress.
- Apart from these centers, Department has Govt. Garden and Nurseries, where other demonstration activities are organized.
- This plan scheme has been devised to cater the demands of farmers and to demonstrate technologies with the following aims and objectives:

### **AIMS & OBJECTIVE:**

The following are the aims and objectives:

1. To study and demonstrate advanced national technologies in horticulture sector at village level with an approach of top to bottom.
2. To study and import advance international technologies in horticulture sector and establish their network at farmer level.
3. To demonstrate technologies at Govt. and farmers field.
4. To train the crop specific specialist in the concerned field.
5. To bridge productivity and quality gap of horticulture produce.
6. To study modern marketing and auctioning system.
7. To produce quality planting material at nurseries and provide them to the farmers.

**Target and achievements of various state gardens and nurseries for the year 2021-22 is as under: -**

(in Rs.)

Sn.	Distt.	Name of Nursery	Achievement
1	Panchkula	Pinjore	963305
		GGN Fatehpur	1520948
2	Yamunanagar	Chhachrauli	625562
3	Kaithal	Cheeka	651000
4	Ambala	GGN Nabipur	1572635
5	Kurukshetra	Ratgal	1580000

		CSTF Ladwa	5965780
		IBDC Ramnagar/GGN Ramnagar	5636870
6	Gurugram	HTGH Gurugram	2869822
7	Nuh	Pinangwan	480000
8	Hisar	Hansi	850000
		Barwala	515280
9	Sirsa	CEF Mangiana	12260000
		GGN Sirsa	61000
10	Fatehabad	Bhunna	5766400
11	Jind	GGN Jind	1280000
		GGN Kishanpura	400000
12	Panipat	TDC Sewakheri	3487801
13	Karnal	CEV Ghraunda	46791878
		PTC Shamgharh/Khrindwa	7843260
		GGN Uchani	78000
14	Rohtak	Samargopalpur	90000
15	Sonipat	Panchi Gurjran	193300
16	Palwal	Hodal	20927894
17	Narnaul	Sundrah	10652946
	Total		133063681

### **Development of Vegetables**

In the year 2021-22, the area under vegetables has increased to 3,29,440 hectare, Similarly, the production of vegetables has increased to 53,40,957 MT during the year 2021-22.

### **Area and Production of Vegetable Crops**

Name of Vegetables	Achievement 2021-22	
	Area (in Ha.)	Production (MT)
Potato	29543	781505
Tomato	20938.1	343440
Onion	24871	489456
Cucurbits	49451.1	657908
Cauliflower	28852	583612
Leafy veg.	39430	451087
Peas	8149	118939
Brinjal	8630	146153
Other	119575.8	1768857
Total	329440	5340957



### **Production of vegetable seedling**

In order to further promote vegetable production in the state of Haryana, farmers are provided with good quality vegetable plants from Vegetable Excellence Center Gharounda (Karnal) Fruit Excellence Centre Mangiana (Sirsa) IHDC Hodal, HTGH, Gurugram, IHDC Sundrah. This year 1.61 crore vegetable seedling have been provided against the target of 1.30 crore to farmers on subsidy.

### **Development of spices**

The area under spices increased to 8586 hectares in the year 2021-22, similarly the production of spices increased to 73397 MT during the year 2021-22.

#### **Area and Production of Spices Crop**

Name of Crops	Achievement 2021-22	
	Area (in Ha.)	Production (MT)
1) Ginger	82	880
2) Garlic	3415	39908
3) Fanugreek	1525	8754
4) Corriander	1825	3855
5) Other	1739	20000
Total	8586	73397

### **Mushroom Production**

In the year 2021-22, 10745 MT of Mushroom was produced from 1389440 trays.

### **Development of Flowers**

In the year 2021-22, the area under flowers has increased to 1692.46 hectares, Similarly, the production of flowers increased to 17211.5 MT during the year 2021-22.

#### **Area and Production of flowers Crop**

Name of flower	Achievements 2021-22		
	Area (in Ha.)	Production ( Loose Flower)	Production ( Cut Flower)
1) Gladiolus	25		650000
2) Merigold	1301.26	16794	0
3) Tube Rose	130	0	6845000
4) Other	236.2	417	4763833
Total	1692.46	17211	12258833

## **Development of Medicinal and aromatic plants**

In the year 2020-21, the area under Medicinal and aromatic plants has increased to 305.9 hectares. Similarly, the production of Medicinal and aromatic plants increased to 354.7 MT during the year 2021-22.

### **Area and production of Medicinal & Aromatic plants**

Name of Medicinal & Aromatic plants	Achievement 2021-22	
	Area (in Ha.)	Production (in MT)
1) Aloe vera	101	157.8
2) Stevia	6.4	.4
3) Other	198.5	196.5
Total	305.9	354.7

### **Crop Cluster Development Programme (CCDP):**

New scheme namely Crop Cluster Development Program (CCDP) has been launched with budget outlay of Rs. 510.36 crore for a period of three years. Under this program, in each cluster marketing infrastructure and post-harvest management facilities like pack house, primary processing centre, grading-sorting machine, storage facilities, refer vans and quality control facilities are created to have forward and backward linkage for effective marketing of horticulture produce. Brief is as under:-

Sn.	Particulars	Nos.
1	Integrated pack houses established upto 2021-22	10
2	Integrated pack houses process upto 2021-22	45

### **Formation of Farmers Producer Organisation and product clusters:**

Formation of Farmers Producer Organizations under Centre Sector Scheme for Formation & Promotion of 10,000 FPOs:

Government of India has launched a new Centre Sector Scheme for “Formation and Promotion of 10,000 Farmer Producer Organizations (FPOs)” in the Country in July, 2020 in order to provide adequate handholding and professional support to develop economically sustainable FPOs while facilitating adequate market and credit linkages. The work relating to formation and promotion of FPOs is to be undertaken through Cluster Based Business Organizations (CBBOs). SFAC-Haryana has engaged 7 CBBOs for undertaking work relating to formation and promotion of 50 FPOs allotted to SFACH for the year 2020-21. By the end of FY 2021-22, a total of 46 FPOs were formed under Centre Sector Scheme, for which a budget of Rs. 2.92 crore has been utilized out of Rs. 5.50 crore which was received during the year 2021-22. The status of FPOs formed by SFAC-Haryana in the State under the scheme is given as under:

Farmer Producer Organizations : 46 FPOs  
Shareholders : 7989 nos.

**Bhavantar Bharpayee Yojana (BBY):**

- Haryana Govt. has started Bhavantar Bharpayee Yojana (BBY) in the State from 01.01.2018 to incentivize farmers to offset the losses during low prices in the market for perishable horticultural commodities. This is a unique scheme in India. This scheme also encourages the farmers towards diversification and to expand the area under horticulture crops. Keeping in view of the success of the scheme, now 21 horticulture crops have been included under the scheme. The protected price of each crops has been fixed. The crop wise protected price detail is as under:

Sn.	Crop	Protected Price (Rs. per qtl.)	Sn.	Crop	Protected Price (Rs. per qtl.)
<b>Vegetables</b>					
1	Tomato	500	8	Brinjal	500
2	Onion	650	9	Carrot	700
3	Potato	600	10	Cabbage	650
4	Cauliflower	750	11	Chilli	950
5	Bhindi	1050	12	Capsicum	900
6	Bottle gourd	450	13	Pea	1100
7	Bitter gourd	1350	14	Radish	450
<b>Spices</b>					
15	Turmeric	1400	16	Garlic	2300
<b>Fruits</b>					
17	Mango	1950	19	Kinnow	1100
18	Guava	1300			

- To take the advantage of scheme farmer can register his area and crop on Meri Fasal Mera Byora Portal. If the wholesale price (BBY) rate falls below the fixed rate price, then the amount is paid to the farmer directly into the account of a farmer. Since start of this scheme from January 2018 the season wise detail of disbursement of incentives to the farmers is as under:

Season	Period	Registered Farmers	Area Registered	Farmers benefits		
				Crop	Nos.	Amount (lakhs)
Season-1	1 Jan. to 15 June 2018	4435	10789	Tomato	565	12.08
Season - 2	10 Oct. 2018 to 15 June 2019	17970	66351	Potato	3244	919.34
				Cauliflower	169	21.15
Season- 3	15 Sep. 2019 to August 2020	36991	84830	Potato	209	59.24
				Tomato	8	23.41
Season- 4	1 Sep. 2020 to April 2021	9014	18520	-	-	0.0
2021-22	1 July to till date	-	103227	Bhindi	1	.01

				Chilly	1	.28
				Bitter gourd	13	3.65
				Capsicum	16	2.04
				Tomato	92	16.08
				Cauliflower	92	23.02
				Onion	3	0.06
				Potato	984	319.41
				Kinnow	2	.70
				Mango	4	11.74
<b>Total</b>			<b>265197</b>		<b>5403</b>	<b>1412.22</b>

### **Establishment of Horticulture University:**

To provide quality education linked with enhancing learning outcomes, the work of Maharana Pratap Horticultural University has been started at Karnal along with establishment of three Regional Research Stations in Chansoli (Ambala), B.Raiya (Jhajjar) & Badhana (Jind). The work of boundary wall, earth filling, main gate and precast boundary wall has been completed of main campus at Anjanthali, Karnal. The work of establishment of Regional Research Stations are under progress.

For this an amount of Rs. 38.25 crore has been released out of total budget outlay of Rs. 489.01 crore. The Post Graduate Courses for students has also been started from academic year 2017-18

### **Human resource development plan**

In order to increase the yield of the crop and increase the quality of production to the farmers, training and exhibitions are organized by the Horticulture Department in the State on fruits, vegetables and flowers etc.

- Job Fair 2022: A job fair was conducted by Horticulture Department during 24 to 26march 2022 at Horticulture training institute, Uchani Karnal. 478 students participate in this fair vide which 162 students selected by 34 reputed companies.
- National conference on VoE and CoE with Israel expert, Scientist and center Incharge of 18 states was conducted on 21 to 23.11.2021
- Fruit expo / Mango mela was organized on 10 to 12.07.2021 at CSTF Ladwa.
- Potato Value Chain workshop was conducted on 10.03.2022, in which 15 companies and 15 FPOs participate.
- Imperial school of Agribusiness in pursuant of MoU sign, 20 MBA Agri Graduates have internship programme with FPO's.

- A workshop on Natural Farming was conducted jointly with Agriculture Department on 08.03.2022 in the presence of Hon'ble Chief Minister Haryana and HE Governor of Gujrat.

### **National Horticulture Mission**

National Horticulture Mission Sharing (60:40) Central Government sponsored scheme was implemented in 19 districts in the state of Haryana during the year 2021-22. Total financial provision was kept of Rs. 10600 lakhs. Various components covered under this, such as area expansion under fruits, establishment of big and small modern nurseries, Integrated Pest Harvest Management, flowers, spices, medicinal and aromatic production, rejuvenation of old plants, training of farmers, production of vegetable seeds and mushroom etc. During the year 2021-22 an amount of Rs. 7924.52 lakhs was spent. details of which is available in Annexure-6.

### **Micro-Irrigation and Management of Water Resources**

#### **Special measures**

- Major focus on in identified 36 over exploited blocks
- Area limit increased from 5 ha to 10 ha per beneficiary.
- Special assistance @85% in all districts of Haryana for all category of farmers.
- Complete online application process and assistance released as DBT linked with e-ledger account.
- Geo-tagging of each MI system installed at farmer field and GPS based physical verification.

### **Projections**

An area of 153591 ha has been covered under micro irrigation from 2005-06 to 2021-22 in the State in both Horticulture and Agriculture crops.

The year wise summery of area coverage is as under:

Sr. No.	Year	Drip	Sprinkler	Total
1	Up to 2005-06	3712	24	3736
2	2006-07	812	1864	2676
3	2007-08	1041	6735	7776
4	2008-09	2139	20170	22309
5	2009-10	2468	790	3258
6	2010-11	3900	5254	9154
7	2011-12	2751	5961	8712
8	2012-13	2645	3914	6559
9	2013-14	2504	3860	6364
10	2014-15	1550	1850	3400
11	2015-16	1756	1360	3116
12	2016-17	1158	4624	5782
13	2017-18	2105	8315	10420
14	2018-19	2903	10549	13452

15	2019-20	3070	19610	22680
16	2020-21	2706	10813	13519
17	2021-22	1478	3167	4645
<b>Total</b>		<b>38698</b>	<b>108860</b>	<b>147558</b>

**Action Plan 2021-22 and progress:**

- a) As per approved Annual Action Plan of MI scheme and the availability of funds, the progress achieved by both the departments under PDMC is as under:

Sn.	Component	Horticulture	
		Area (ha.)	Financial (Lakh)
1	Drip	1478	827.35
2	Sprinkler	3167	2314.40
<b>Total</b>		<b>4645</b>	<b>3141.75</b>

Importance of community ponds: Farmers were encouraged to pay 100% percent assistance for constructing community ponds and till the year 2021-22, a total of 3817 community ponds have been built by the farmers under grant on their farms and 304 tanks were built in a year 2021-22.

**Technical demonstration centers:**

8 different technical demonstration centers have been set up by the department to promote the horticulture sector, out of which 4 centers of excellence have been set up in collaboration with the Israel government, which is as follows:

- 1) Subtropical fruit center, Ladwa (Kurukshetra): This center has been set up on 30 acres of land at a cost of 9.10 crore. Different fruits at center such as mango, litchi, chiku, pear, peach, guava, olive, persimmon etc. have been demonstrated by the latest technology at different distances.
  - Display of 28 Mango and 4 root stock at the center.
  - Demonstration of 4 varieties of guava, 7 varieties of pear, 6 varieties of peaches, 2 varieties of plum.
  - Demonstration of 4 varieties of pomegranate and 5 varieties of olive.
- 2) Integrated Bee-keeping development center: In the year 2017-18, Integrated beekeeping development center was inaugurated in Ramnagar of Kurukshetra district on November 10, 2017 at a cost of Rs. 10.50 crore in the area of 25 acres. The main purpose of which is to promote bee-keeping. It is an India Israel scheme. At this center, farmers/beekeepers are imparted training on young subjects of bee- keeping. In addition, the following facilities available at this center:
  - Honey processing unit
  - Bee box making unit
  - Beehive unit
  - Honey testing laboratory
  - Bumble bee laboratory
  - Honey warehouse

- Bee sales center
- Rest house
- Bee park

3) Potatoes Technology Center: this center was established in Shamgarh district Karnal on 6 April 2017 at a cost of Rs. 4.25 crore. The main objectives and activities of this center are as follows:

- Potato seed production by mini tubers
- Production of 1 lakh micro plants annually.
- Production of mini tubers at net house.
- Production of 5 lakh mini tubers of G-0
- Display of kufrikhayti, kufripukhraj and kufri chief gold varieties of potato.
- Demonstration of 16 species, Libha, Peru with international potato center under all India research project.

4) Integrated Horticulture Development Center: this center was established in hodal district palwal on October 13, 2018 at a cost of 4.94 crore. The main objective of this center is to prepare plants for farmers at cheap prices.

5) Food Processing Centers:- These centers have been established in Kurukshetra, Sirsa and Jind in the state, where processing training is imparted free of cost to woman. In the year 2021-22 3562 training cadres were provided training under 145 training.

**Horticulture Training Institute, Uchani, Karnal**: This institute was established under World Bank Project in 1998. Here farmers/ students/ officers/ officials' are given free of cost five days trainings. During the year 2021-22, about 17543 no. of farmers/ students, officers and officials' have been trained. Farmers are also took other states for technical excursions from the state of Haryana. Apart from this, three other programs are being run in this institute:

- During the year 2021-22, 3663 no. of farmers have been trained in weekly training programmes.
- In the year 2021-22 under the Agricultural Skills Council, 195 student have been trained in Qualifications Packs. This course is conducted under the Indian Council of Agricultural Skills.

Sn.	Components	Physical Target	Achievement	% Achieve.
1.	Qualifications Pack	294	195	66.33
2.	Weekly Trainings	5050	3663	72.53
3.	Expo/fair	-	2080	-
4.	Webinar/Seminar	9750	11565	118.62
5.	ToT	40	40	100.00
<b>Total</b>		<b>15134</b>	<b>17543</b>	<b>115.92</b>

### **Protected Cultivation & Vertical Farming:**

Sn.	Component	2020-21	2021-22			
			Target		Achievement	
		Phy. (acre)	Phy. (acre)	Fin. (Rs. lakhs)	Phy.	Fin.
1.	Poly House	31.43	17.09	10.98	296.62	132.03
2.	Net House	277.55	488.87	364.18	6562.91	4844.75
3.	Mulching	3065	2200	2190.12	104	129.12
4.	Plastic Low Tunnels	1534.20	2250	1903.47	1305	601.99
5.	Bamboo Stacking	1202.2	1637	563.00	2085.72	566.72
6.	MS-Iron Stacking	22.37	329	53.60	36.30	20.07
7.	High Value vegetable	538.45	506.47	188.6	1515.41	538.69
8.	Replacement of cladding material	55.12	39.77	113.16	45.26	124.04

### **Mushroom Cultivation:**

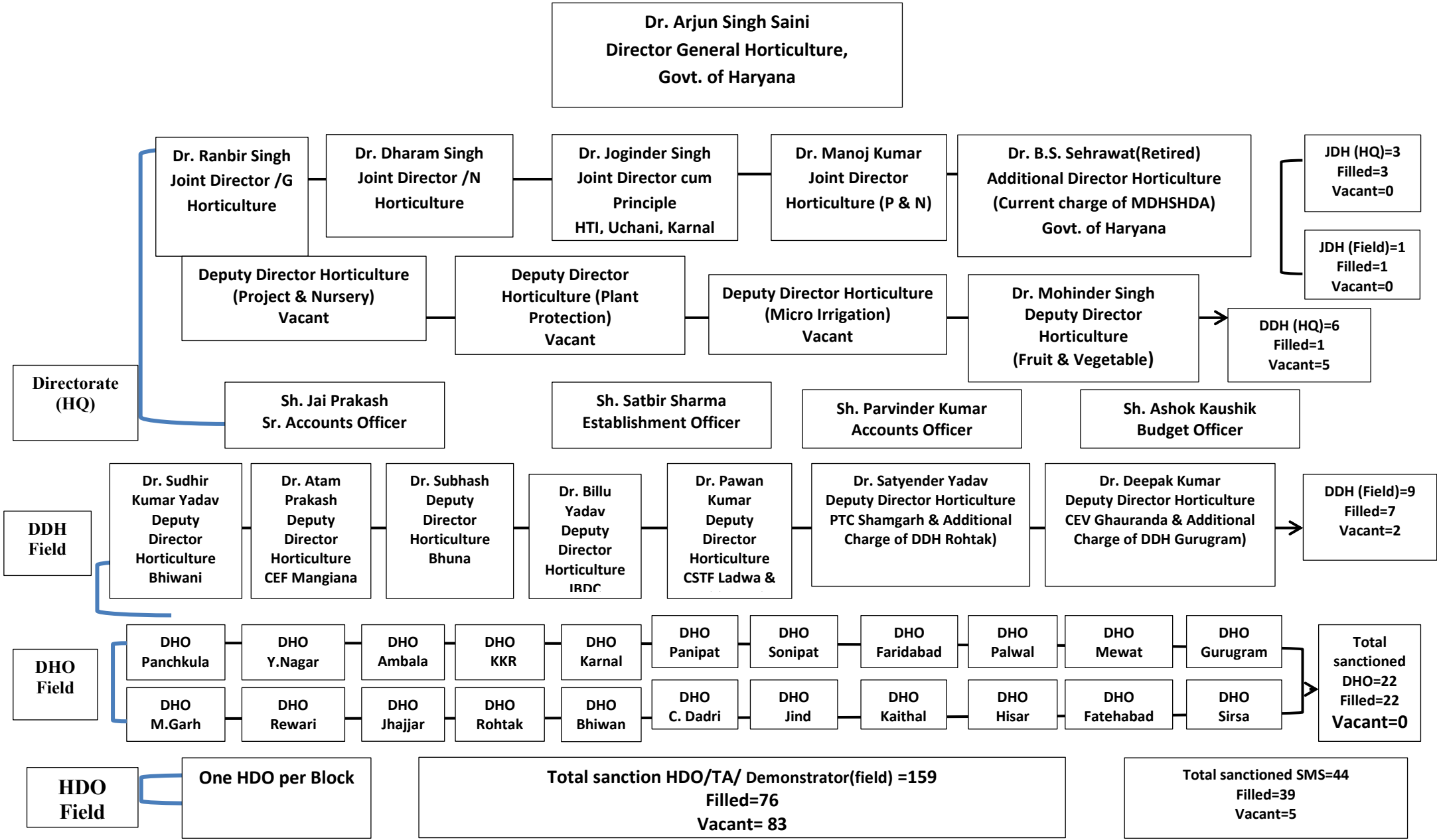
Sn.	Component	2020-21	2021-22			
			Fin. in lakhs			
		No.	Target		Achievement	
		Phy.	Phy.	Fin.	Phy.	Fin.
1.	Mushroom Production Unit	100	35	264	19	80
2.	Compost Unit	24	31	236	15	64
3.	Spawn Unit	84	2	12	1	3
4.	Mushroom Trays (SCSP)	28652	38060	102.76	36529	98.64
5.	Mushroom Trays (Shivalik)	25244	9956	27.40	21596	44.80
6.	Mushroom Trays (milky/ dhingry/ shitake, etc.):	100	3933	589950	3933	589950
<b>Total</b>		<b>54204</b>	<b>51417</b>	<b>644.16</b>	<b>62093</b>	<b>296.34</b>

### **Pollination Support through Beekeeping:**

Sn.	Component	2020-21	2021-22			
			Fin. in lakhs			
		No.	Target		Achievement	
		Phy.	Phy.	Fin.	Phy.	Fin.
1.	Beehives	5350	15725	185.28	7705	89.33
2.	Bee-colonies	6100	15675	124.85	7685	84.81
3.	Bee-equipment's	323423	153695	189.93	225790	184.73
<b>Total</b>		<b>334873</b>	<b>185095</b>	<b>500.06</b>	<b>241180</b>	<b>358.87</b>







**Annexure-B****Target & Achievement of fruit crops for the year 2021-22**

Area in Ha.  
Production in MT

Sr. No.	Name of districts	Area		Production	
		Target	Achievement	Target	Achievement
1.	Panchkula	2041	1696	26500	23290
2.	Ambala	3096	2644	39054	28935
3.	Yamunanagar	9787	9485	125331	123275
4.	Kurukshetra	2176	1512	30982	24949
5.	Kaithal	910	692	16193	12000
6.	Karnal	4270	4300	59352	58647
7.	Panipat	2695	1851	43239	31093
8.	Sonepat	5518	2580	106128	46564
9.	Rohtak	1697	1388	28651	20737
10.	Jhajjar	4320	4265	65272	82742
11.	Faridabad	1810	1339	38281	22250
12.	Narnaul	2497	2192	54423	52800
13.	Rewari	1375	843	20820	12974
14.	Gurugram	1916	1208	23530	17910
15.	Mewat	4513	4017	75944	60465
16.	Bhiwani	5550	5134	63559	63292
17.	Hisar	4387	4097	101000	107631
18.	Fatehabad	13828	14458	363406	363681
19.	Sirsa	2172	1752	42965	39645
20.	Jind	3886	3660	28857	12829
21.	Palwal	3085	2992	39167	34398
22.	Charkhidadri	471	970	6316	23613
	<b>Total</b>	82000	73075	1398970	1263720

## Annexure-C

### Target & Achievement of Vegetables crop for the year 2021-22

Area in Ha.  
Production in MT

Sr. No.	Name of districts	Area		Production	
		Target	Achievement	Target	Achievement
1.	Panchkula	4890	3203	75911	32634
2.	Ambala	30352	22335	586450	436049
3.	Yamunanagar	38173	33334	762689	609730
4.	Kurukshetra	22371	23361	508932	467320
5.	Kaithal	9046	8051	157930	136110
6.	Karnal	23950	17343	500553	260965
7.	Panipat	57238	56697	1038133	1018121
8.	Sonepat	11939	6744	117207	68157
9.	Rohtak	16589	15326	166906	146212
10.	Jhajjar	10072	8814	125807	88418
11.	Faridabad	6393	6512	110272	106240
12.	Narnaul	9339	8347	123086	89459
13.	Rewari	8704	9386	127527	103714
14.	Gurugram	9400	9330	170233	170471
15.	Mewat	17098	15206	213065	184195
16.	Bhiwani	11689	9886	162431	106564
17.	Hisar	14365	9316	186442	89452
18.	Fatehabad	11028	7599	194356	124154
19.	Sirsa	16079	13040	349152	250642
20.	Jind	34401	31379	740218	656433
21.	Palwal	20157	11933	294906	175072
22.	Charkhidadri	1745	2298	24851	20845
	<b>Total</b>	385018	329440	6737055	5340957

## Annexure-D

### Target & Achievement of Spices crop for the year 2021-22

Area in Ha.  
Production in MT

Sr. No.	Name of districts	Area		Production	
		Target	Achievement	Target	Achievement
1.	Panchkula	750	229.2	9475	2042
2.	Ambala	470	174.8	5665	1655
3.	Yamunanagar	2630	1873	29905	23627
4.	Kurukshetra	370	300	4165	2675
5.	Kaithal	530	400	3715	2260
6.	Karnal	1380	1068.4	13715	12205
7.	Panipat	640	298	3995	2245
8.	Sonepat	200	55	1225	450
9.	Rohtak	260	290	1375	1065
10.	Jhajjar	100	0	1000	0
11.	Faridabad	145	127	705	775
12.	Narnaul	210	165	940	1000
13.	Rewari	130	119	680	663
14.	Gurugram	60	0	525	0
15.	Mewat	280	203	2565	2008
16.	Bhiwani	200	162	1225	930
17.	Hisar	210	24	1645	271
18.	Fatehabad	220	636	2045	3438
19.	Sirsa	575	285	3895	2531
20.	Jind	110	1727	1025	9360
21.	Palwal	400	264.2	3145	3352
22.	Charkhidadri	130	185.4	1056	845
	<b>Total</b>	10000	8586	93686	73397

## Annexure-E

### Target & Achievement of Flowers crop for the year 2021-22

Area in Ha.  
Production in  
MT

Production in lacs cut flower

Sr.No	Name of districts	Area		Production			
		Target	Achievement	Target		Achievement	
				(MT)	(lacs cut flower)	(MT)	(lacs cut flower)
1.	Panchkula	63.2	17.5	812	171300	43	15763
2.	Ambala	55	10.8	850	0	25	0
3.	Yamunanagar	135.4	55.9	1600	859400	926	56500
4.	Kurukshetra	302	339.9	4500	0	5143	0
5.	Kaithal	57	0.76	750	8700	12	0
6.	Karnal	108	22	1600	0	360	100000
7.	Panipat	246	42	3200	4850000	800	4000000
8.	Sonepat	321	246	4900	0	615	490000
9.	Rohtak	65	46	780	0	410	0
10.	Jhajjar	50	52	750	0	823	0
11.	Faridabad	196	185	1530	3500000	1485	3495000
12.	Narnaul	20	20	300	0	55	0
13.	Rewari	30	85	450	0	1005	0
14.	Gurugram	400	50	6000	0	1640	0
15.	Mewat	50	15	750	0	350	0
16.	Bhiwani	40	4	600	0	2	0
17.	Hisar	10	1.4	150	0	7	0
18.	Fatehabad	10	2.8	150	0	40	0
19.	Sirsa	15	45.4	225	0	218	0
20.	Jind	60	60	900	0	693	0
21.	Palwal	466.4	390	3060	7210000	2557	4101620
22.	Charkhidadri	0	1	0	0	2.5	0
	<b>Total</b>	2700	1692.46	33857	16599400	17211.5	12258883

## Annexure-F

### Target and Achievement of Mushroom for the year 2021-22

Trays in No.  
Production in MT

Sr. No.	Name of districts	Trays		Production	
		Target	Achievement	Target	Achievement
1.	Panchkula	9200	15100	70	76
2.	Ambala	55000	91000	400	690
3.	Yamunanagar	105000	109600	800	860
4.	Kurukshetra	160000	159600	1200	1167
5.	Kaithal	60000	58000	450	410
6.	Karnal	90000	31400	675	186
7.	Panipat	310000	311900	2300	2310
8.	Sonepat	430000	440100	3200	3850
9.	Rohtak	2600	2600	20	15
10.	Jhajjar	700	2500	5	13
11.	Faridabad	17800	22480	130	136
12.	Narnaul	4500	3700	35	36
13.	Rewari	3000	6700	20	47
14.	Gurugram	1200	0	10	0
15.	Mewat	800	750	6	6
16.	Bhiwani	66000	60200	500	400
17.	Hisar	36400	1700	270	7
18.	Fatehabad	20500	1310	150	10
19.	Sirsa	63500	65000	475	487
20.	Jind	200	0	2	0
21.	Palwal	4500	4600	30	30
22.	Charkhidadri	100	1200	1	10
	<b>Total</b>	1441000	1389440	<b>10749</b>	10745

## Annexure-G

### Target and Achievement of Medicinal crops for the year 2021-22

Area in Ha.  
Production in MT

Sr. No.	Name of districts	Area		Production	
		Target	Achievement	Target	Achievement
23.	Panchkula	0	0	0	0
24.	Ambala	25	44	18	1.4
25.	Yamunanagar	89	92.6	75	143.4
26.	Kurukshetra	0	0	0	0
27.	Kaithal	120	115	190	194.0
28.	Karnal	0	0	0	0
29.	Panipat	0	0	0	0
30.	Sonepat	0	0	0	0
31.	Rohtak	0	0	0	0
32.	Jhajjar	0	0	0	0
33.	Faridabad	0	0	0	0
34.	Narnaul	13	4.6	12	1.7
35.	Rewari	0	0	0	0
36.	Gurugram	0	0	0	0
37.	Mewat	20	4.7	18	9.2
38.	Bhiwani	0	0	0	0
39.	Hisar	0	0.2	0	0
40.	Fatehabad	0	0	0	0
41.	Sirsa	0	0	0	0
42.	Jind	0	0	0	0
43.	Palwal	28	44.8	20	5.0
44.	Charkhidadri	5	0	4.5	0
	<b>Total</b>	<b>300</b>	<b>305.9</b>	<b>337.5</b>	<b>354.7</b>



## Annexure-H

### Progress Report Physical/Financial Targets & Achievements under NHM, 2021-22

Component	Unit	Total				
		Physical Target	Physical Achmt	Financial Target	Financial Achmt	GOI Share
<b>A. Plantation Infrastructure &amp; Development</b>						
1. Production of planting material						
1.1 Nursery & TC Units						
(a) Private sector						
▶ Small Nursery	No.	5	-	37.5	-	-
▶ Setting up New Tissue culture units	No.	2	-	200	-	-
▶ Hi-tech Nursery	No.	1	-	10	-	-
1.2 Seed production for vegetable and spices						
(a) Private Sector						
▶ Open pollinated crops	Ha.	450	250	55.13	30.63	18.38
2. Establishment of new gardens						
2.1 Fruits						
(a) Strawberry,						
▶ New Plantation	Ha.	500	187.73	250	93.88	56.33
(b) Banana (TC)						
▶ New Plantation	Ha.	27	10.4	10.13	3.91	2.35
▶ 1st Year Maintenance	Ha.	15	14.2	1.88	1.78	1.07
(c) Papaya,						
▶ New Plantation	Ha.	25	16.28	15	9.21	5.53
(d) Fruit crops other than cost intensive crops using normal spacing,						
▶ New Plantation	Ha.	4153	2637.62	514.34	306.18	183.71
▶ 1st Year Maintenance	Ha.	3289.52	2279.51	133.18	93.1	55.86
▶ 2nd Year Maintenance	Ha.	957.6	957.6	37.65	36.67	22.00
(e) Exotic Fruit Crop						
▶ Kamalam (Dragon fruit)	Ha.	8	5	2.4	1.5	0.90
▶ Anjeer (Fig)	Ha.	3	2.8	0.37	0.34	0.20
(f) Niche Fruit Crop						
▶ Aonla	Ha.	250	17.01	37.5	2.55	1.53
2.2 Vegetables						
(a) Hybrid Vegetables	Ha.	7540	4980.17	1507.8	995.91	597.55
2.3 Flowers						
(a) Cut Flower						
▶ Small Scale Farmers	Ha.	50	38.8	20	15.52	9.31
▶ Other farmers	Ha.	25	21.8	6.25	5.45	3.27
(b) Bulbous Flower						
▶ Small Scale Farmers	Ha.	50	37.8	30	22.68	13.61
▶ Other farmers	Ha.	30	21	11.25	7.88	4.73
(c) Loose Flower						
▶ Small Scale Farmers	Ha.	280	180.5	44.8	28.88	17.33
▶ Other farmers	Ha.	175	112.5	17.5	11.26	6.76
2.4 Spices						
(a) Seed spices (cumin, fennel, etc)	Ha.	1040	906.2	124.8	121.73	73.04
(b) Rhizomatic spices (Ginger, Garlic, Turmeric etc)	Ha.	250	27.7	30	5.32	3.19
2.5 Aromatic Plants						
(a) Other aromatic plants	Ha.	120	23.73	19.2	3.79	2.27

3.Mushrooms						
3.1Mushroom Production Unit						
(a) Private Sector	No.	35	19	264	80	48.00
3.2Spawn making unit						
(a) Private Sector	No.	2	1	12	3	1.80
3.3Compost making unit						
(a) Private Sector	No.	31	15	236	64	38.40
4.Rejuvenation / Replacement of senile plantation, canopy management	Ha.	262	197.16	52.36	39.44	23.66
5.Creation of Water resources						
5.1Community tanks/on farm ponds/on farm water reservoirs with use of plastic/RCC lining						
(a) General Areas	No.	73	45	1460.4	845.51	507.31
5.2Water Harvesting System for individual for storage of water						
(a) General Areas	No.	41	25	30.3	10.51	6.31
6.Protected Cultivation						
6.1Green House Structure						
(a) Naturally Ventilated Tubular Structure						
► General Area (Rs. 844 Sq.m.)	Ha.	5.8	2.87	244.8	80.2	48.12
6.2Shade Net House						
(a) Tubular Structures						
► General Area (Rs. 710/Sqm )	Ha.	163.7	88.39	5515.91	3119.77	1871.86
6.3 Cost of planting material of high value vegetables grown in poly house	Ha.	162.5	32.32	1187	224.03	134.42
6.4Plastic Mulching						
(a) General Area (Rs. 32,000/ha)	Ha.	200	79.15	32	12.19	7.31
7.Promotion of Integrated Nutrient Management (INM)/ Integrated Pest Management (IPM)						
7.1 Promotion of IPM	Ha.	4500	3834.64	54	46.44	27.86
7.2 Promotion of INM	Ha.	3500	1894.67	42	22.75	13.65
8.Centre of Excellence for Horticulture	Project	2	-	600	-	-
9.Pollination support through beekeeping (Lakh units)						
9.1 Production of bee colonies by bee breeder	No.	7230	7230	57.84	57.84	34.70
9.2 Distribution of colonies with hives	No.	9930	9930	79.44	79.42	47.65
9.3 Equipment including honey extractor (4 frame), food grade container (30 kg), net, etc.	No.	35	1	2.8	0.07	0.04
10.Horticulture Mechanization						
10.1Tractor (upto 20 PTOHP)						
(a) General Category	No.	110	97	82.5	64.98	38.99
(b) SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	110	110	110	102.2	61.32
10.2Power Tiller						
(a) Power Tiller (below 8 BHP)						
► General Category	No.	35	31	14	9.29	5.57
► SC, ST / Small & Marginal / Women / Beneficiaries Farmers	No.	35	35	17.5	15.09	9.05
(b) Power Tiller (8 BHP & above)						
► General Category	No.	70	41	42	17.15	10.29
► SC, ST / Small & Marginal / Women / Beneficiaries Farmers	No.	70	46	52.5	27.32	16.39
10.3Tractor/Power Tiller (below 20 BHP) driven equipments						
(a) Sowing, Planting Reaping and Digging						

Equipments						
► General Category	No.	50	47	6	5.64	3.38
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	50	38	7.5	5.7	3.42
10.4Plant Protection Equipment's						
(a) Manual Sprayer: Knapsack / Foot Operated Sprayer						
► General Category	No.	30	-	0.14	-	-
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	30	-	0.18	-	-
(b) Powered Knapsack Sprayer / Power Operated Taiwan Sprayer (capacity 8-12 lts)						
► General Category	No.	50	10	1.24	0.17	0.10
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	50	10	1.55	0.4	0.24
(c) Powered Knapsack Sprayer / Power Operated Taiwan Sprayer (capacity above 12-16 lts)						
► General Category	No.	200	153	6	2.72	1.63
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	200	108	7.6	2.43	1.46
(d) Powered Knapsack Sprayer / Power Operated Taiwan Sprayer (capacity above 16 lts)						
► General Category	No.	70	38	5.6	2.2	1.32
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	70	59	7	4.36	2.62
(e) Tractor Mounted / Operated Sprayer (below 20 BHP)						
► General Category	No.	20	-	1.6	-	-
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	20	1	2	0.15	0.09
(f) Tractor Mounted / Operated Sprayer (above 35 BHP) / Electrostatic Sprayer						
► General Category	No.	50	19	25	5.9	3.54
► SC, ST / Small & Marginal / Women Beneficiaries / Farmers	No.	50	20	31.5	9.28	5.57
11.HRD including Horticulture Institute						
11.1Training of Farmers						
(a) Within the State	No.	450	379	22.5	12.83	7.70
11.2Exposure visit of farmers						
(a) Outside the State	No.	40	-	80	-	-
11.3Training / Study tour of technical staff / field functionaries						
(a) Within the State	No.	100	-	1.5	-	-
(b) Study tour to progressive States/units (group of minimum 5 participants)	No.	75	-	3	-	-
<b>B. Integrated Post Harvest Management</b>						
1.Pack houses	No.	280	169	555.1	270.28	162.17
2.Pre-Cooling unit	No.	1	-	8.75	-	-
3.Cold room (Staging)	No.	4	-	21	-	-
4.Cold Storage (Construction, Expansion and Modernisation)						
4.1 Cold Storage units Type 1 – basic type with single temperature zone	No.	5	1	700	22.44	13.46
4.2 Cold Storage units Type 2 – multiple temperature zones and basic material handling equipment	No.	5	2	906.22	121.53	72.92
5.Technology induction and modernization of						

Cold-Chain						
5.1 Programmed Logic Controller (PLC) equipment	No.	6	5	152.75	77.18	46.31
5.2 Reefer Container	No.	5	1	45.5	7.42	4.45
6.Primary/ Mobile/ Minimal Processing Units						
6.1 General Area	No.	3	-	30	-	-
7.Ripening Chamber						
7.1 General Area	No.	5	-	525	-	-
8.Low Cost onion storage structure (25 MT)	No.	220	154	192.51	131.75	79.05
9.Integrated Cold-Chain Supply System	No.	2	-	420	-	-
<b>C. Establishment of Marketing Infrastructure for horticultural produce in Govt./Private/Cooperative sector</b>						
1.Retail Markets / outlets (environmentally controlled)						
1.1 General Area	No.	13	-	65.63	-	-
2.Static/Mobile Vending cart/ Platform with cool chamber	No.	120	57	18	5.89	3.53
3.Functional Infrastructure						
3.1Collection, Sorting / Grading, Packing Units						
(a) General Area	No.	1	-	6	-	-
<b>D. Special Interventions</b>						
1.Innovative interventions not covered under any GOI Schemes / flexi-funds						
1.1 Plastic crates for transportation of vegetables	Project	104800	55800	115.28	61.38	36.83
1.2 Installation of Solar Fencing	mtr	35734	5473	214.4	17.68	10.61
<b>E. Mission Management</b>						
1.State & District Mission Offices and implementing agencies for administrative expenses, project, preparation, Computerization, contingency etc.	No.	-	-	800	764.65	458.79
2.Institutional Strengthening, hire/purchase of vehicles, hardware/software	No.	2	-	50	33.5	20.10
3.Seminars conferences, workshops, exhibitions, Kisan Mela, horticulture shows, honey festivals etc.						
3.1 State Level	No.	1	1	3	2	1.20
3.2 District Level	No.	15	3	30	6.98	4.19
4.Information dissemination through publicity, printed literature etc and local advertisements.	No.	100	-	40	1.16	0.70
5.Technical Support Group (TSG)	No.	1	-	50	40.26	24.16
6.Promotion of Farmer Producers Organization/FPO/FIG Farmer Interested Groups of 15-20 farmers/ 20 ha, Growers Associations and tie up with Financial Institution and Aggregations.						
6.1 First Year	No.	1	1	35	35	21.00
<b>Grand Total (Financial Target &amp; Achievement)</b>				<b>18500.08</b>	<b>8370.25</b>	<b>5022.16</b>