

PROGRAMMES AND SCHEMES (SCHEMATIC DESCRIPTION):**(I) STATE PLAN SCHEMES:****1. Quality Seed Multiplication and Distribution:**

Department owns 21 Seed Multiplication Farms where foundation seeds of Kharif and Rabi crops are produced. Annually about 3500 to 4000 quintals seed of cereals, pulses and vegetables are produced in these farms. Further about 90,000 quintals of certified seeds of various crops are distributed to the farmers in the state. Under this scheme, expenditure on seed multiplication farms, seed stores, seed testing and certification, subsidy on cost of seeds and cost on demonstrations etc a met. Details of seed farms are given in Table-7.

TABLE-7 LIST OF SEED MULTIPLICATION FARMS, POTATO, VEGETABLE AND GINGER DEVELOPMENT STATIONS

Sr. No.	Name of farm.	District	Total area (Ha)	Cultivated area (Ha)	Irrigated area (Ha)
SEED MULTIPLICATION FARMS (SMF)					
1.	SMF, Manjholi	Solan	10.00	9.10	9.10
2.	SMF, Kunihar	Solan	7.20	5.10	-
3.	SMF,Sudanwala	Sirmour	28.04	21.88	21.88
4.	SMF,Kheri.	Sirmour	16.32	14.63	14.63
5.	SMF,Bhagani	Sirmour	13.72	11.20	10.80
6.	SMF, Bubi	Sirmour	8.80	4.20	3.00
7.	SMF,Pekhubella.	Una	155.20	9.50	8.90
8.	SMF,Deoth	Bilaspur	6.80	3.60	3.50
9.	SMF,Auhar	Bilaspur	8.00	6.47	6.47
10.	SMF,Karsog	Mandi	7.51	6.79	6.79
11.	SMF,Guderi	Mandi	8.81	5.42	5.00
12.	SMF, Movi Seri	Mandi.	7.27	4.85	-
13.	SMF,Jogindernagar	Mandi	8.80	5.80	5.80
14.	SMF Chhattar	Mandi	4.60	3.20	2.80
15.	SMF,Haripura	Chamba.	1.343	0.532	-
16.	SMF,Thulel.	Chamba	2.36	2.20	2.20
17.	SMF, Milwan.-I Milwan-II	Kangra.	24.36 25.40	8.48 16.24	6.00
18.	SMF,Shahpur.	Kangra.	15.56	12.70	3.00
19.	SMF,Bhadiakhar.	Kangra.	14.00	9.00	9.00
20.	SMF,Paprola	Kangra	10.08	6.40	2.32
21.	SMF, Kalpa	Kinnaur	4.56	3.05	3.01
VEGETABLE DEVELOPMENT STATIONS (VDS)					

1	VDS, Bairtee/Boach	Solan.	2.20	2.08	-
2	VDS,Chambaghat	Solan.	0.568	0.48	-
3	VDS,Bhantoon	Kangra.	4.08	3.36	3.36
GINGER DEVELOPMENT STATION (GDS)					
1	GDS, Harloo	Sirmour	8.00	3.55	3.40
POTATO DEVELOPMENT STATIONS (PDS)					
1	PDS Shilaroo	Shimla	22.872	9.708	-
2	PDS,Kharapathar	Shimla	15.76	6.32	-
3	PDS,Dhurla	Shimla	16.58	6.00	-
4	PDS,Khadrala	Shimla	8.40	6.00	-
5	PDS, Umladwar	Shimla	7.47	1.50	-
6	PDS, Thlandbag.	Sirmour	17.20	5.87	-
7	PDS,Kamrah	Mandi	3.84	3.20	-
8	PDS, Phuladhar.	Mandi	14.24	7.44	-
9	PDS, Ahla.	Chamba	8.44	3.538	-
10	PDS,Dalang Maidan	L/Spiti	5.20	4.60	-
11	PDS,Khunna	Kullu	3.40	2.84	-
12	PDS,Rajgunda	Kangra.	8.003	6.971	-
13	PDS,Kheradhar.	Sirmour	17.20	5.87	-

2. MANURE AND FERTILIZERS:

I) DISTRIBUTION OF FERTILIZERS:

a) With a view to provide fertilizers to the farmers at reasonable rates throughout the State, 100% subsidy on transportation of all kinds of fertilizers to retail sale points from Block Head quarter HIMFED Godown is being given thereby bringing the uniform sale rates of fertilizer in the State. The State Govt. has also allowed subsidy on cost of Urea and Ammonium Sulphate @ Rs.200/- per MT, and on complex fertilizers NPK 12:32:16, NPK 10:26:26 and NPK 15:15:15 @ Rs.500/-per MT. The subsidies are provided under Plan and Non-Plan. Outlay proposed under this scheme is to meet expenditure of cost and transport subsidy on fertilizers besides staff cost.

In order to ensure adequate supply of fertilizers, the Govt. has entrusted this responsibility to HIMFED/Cooperative Societies. The farmers are educated about balanced use of fertilizers and as per soil testing nutrient basis.

(b) Vermi composting Units:

All farmers shall be covered under vermi composting by the end of 12th Five year plan. Farmers are being provided 50% subsidy limited to Rs.4000 for setting up of vermibed. In order to cover all the farming families, the scheme is being continued during 12th Five Year Plan (2012-2017). State Govt. has also approved the organic policy for the State so the major stress shall be laid on the promotion of organic farming during the 12th Plan period.

II) SOIL TESTING CENTRES:

Department has 11 Soil Testing Laboratories besides four mobile soil testing labs to provide free soil testing facilities to the farmers. About 1,25,000 samples are analysed annually. Besides this Soil Health Cards are being provided to the farmers. About one lac farmers are being covered every year. Outlay proposed is to meet expenditure on these labs for testing of soil samples.

3. PLANT PROTECTION:

The Department exercise vigil on pest situation. To overcome this, about 60 MT of pesticides through 991 sale centres are supplied to the farmers. Besides this, Pesticide Testing Laboratory at Shimla has been set up with a capacity of 150 to 250 samples per year. One Bio Control Laboratory has been set up at Palampur where conservation pest situation augmentation, rearing and multiplication of bio-agents and training to extension staff and farmers are being done. Another Bio Control Laboratory has been set up at Mandi and will be made functional very soon.

This is a continued scheme and the provision is made for meeting the expenditure on transportation and subsidy on the cost of plant protection material. The plant protection material including equipments are supplied to the SCs / STs / IRDP families at 50% cost. The outlay proposed is to meet expenditure on subsidies.

4. COMMERCIAL CROPS:

Under diversification approach, major emphasis is being laid on the production of Off-season vegetables, quality vegetable seeds, Potato and Ginger besides Soybean, Oilseeds and Pulses.

a) Development of Seed Potato:

The Department owns 14 Potato Development Stations where foundation seed potato is produced. Due to "Seed Plot Technique" in the plains, the Potatoes of plains are causing tough competition in marketing of seed Potato from H.P. Therefore, a policy has been devised to diversify the area under Potato towards cash crop. Market maximum potato as table and produce only that much seed potato which can easily be marketed outside the State.

b) Development of Vegetables including Farms:

Himachal Pradesh gained reputation for the cultivation of off-season vegetables and production of quality vegetable seeds. There is a great demand of off-season vegetables in the plains. The ongoing programme i.e. cultivation of off-season vegetables and production of vegetable seeds is proposed to be strengthened and organized on an extensive scale during 12th Plan for providing higher income and employment.

The suitable areas in the State for the purpose of vegetable cultivation would be intensively surveyed and identified and the farmers in the newly identified areas would be encouraged to take up these programme, demonstration on vegetables cultivation are done for the small and marginal farmers in these areas, so that the farm income of these rural poor can be improved and country can be supplied with the vegetables in off-season. The cropping pattern shifts from cereals to vegetables would be specially monitored in all such areas as are being brought under the culturable command area of the new irrigation schemes.

c) Ginger Development:

For production of disease free ginger, the Department is providing training, demonstrations and quality seed. About 35,000 tonnes of green ginger is produced annually which is marketed within the State and at the neighbouring States.

d) Tea Development:

Total area under Tea is 2300 hectares with a production level of 8-10 lac Kgs. In the last few years, there is slump in the market and tea industry has been affected badly. Three of the four factories are out of production. Planters are not plucking the green leaf as a result production has come down to 7 lac Kgs.

The outlay proposed under above (a) to (d) is towards meeting subsidies on cost of inputs, training, demonstration and maintenance of nurseries.

5. EXTENSION AND FARMERS TRAINING:

Main function of the Department is to disseminate the technology to farmers. The Department runs two training centres, one at Mashobra and other at Sundernagar. Besides this farmers training camps are organised at village, block and district level. The outlay proposed is for meeting expenditure on training and demonstrations.

6. AGRICULTURAL ECONOMICS & STATISTICS:

Under this programme, three centrally sponsored schemes viz (i) Timely Reporting Scheme(TRS) for estimation of area and production of crops (ii) Improvement of Crop Statistics(ICS) for bringing quality in the land record data at grass root level and (iii) Estimation of Production of Commercial crops like Potato and Ginger. The estimation is done accordingly to statistical techniques. Production estimates on principal crops like Wheat, Barley of Rabi season and Maize, Paddy, Potato and Ginger crops of Kharif are released on the basis of results of crop cutting experiments conducted accordingly Random Sampling Method. The Director of Land Records is the agency in the State responsible for collection and release of area estimates, forecast report etc.

This is a continued scheme for meeting salaries of the staff under Timely Reporting Scheme and the Scheme of Improvement of Crop Statistics. These schemes converted in to 100% CSS from the financial year 2008-09 onwards.

7. AGRICULTURAL ENGINEERING:

Under this scheme, new farm implements/ machines are popularized among the farmers. Testing and demonstration of new machines is also done under this programme. The outlay proposed is towards subsidies and salaries of the staff.

8. Scheme of Assisting Small & Marginal farmers for Increasing Agriculture Production:

Under this scheme minikits of seeds are distributed to the farmers of Tribal Areas free of cost. The outlay proposed is for meeting this cost.

9. QUALITY CONTROL:

Under this scheme, implementation of various acts on seeds, fertilizers and pesticides is ensured. Quality control functionaries have been notified. The Department has three fertilizer testing labs, one state pesticides testing lab and three seed testing labs.

10. AGRICULTURAL MARKETING:

This is controlled in the State through H.P. Agricultural and Horticultural Produce Marketing (Development and Regulation) Act, 2005. Under this Act, H.P. State Agricultural Marketing Board has been set-up. At present, 10 market committees are functioning. 48 markets have been made functional. Market information is being disseminated through different media i.e AIR Doordershan print media and through Net to farmers. Market fee has been reduced from 2% to 1%. The work of development of marketing infrastructure is done out of the funds of APMCs. Information on daily market rates is also disseminated through AIR/ DD. Market rates of 39 commodities are also disseminated through agmarknet.nic.in.

11. HP CROP DIVERSIFICATION PROJECT (JICA ODA Loan Project) :

Himachal Pradesh Crop Diversification Project being supported by JICA through ODA loan. The study on diversified agriculture for enhanced farm income in Himachal Pradesh was got conducted from Japan International Cooperative agency (JICA) w.e.f. February, 2007 to December, 2008. Draft report of the study was submitted by JICA in December, 2008 and final report in March, 2009. The study was fully funded by JICA as grant under bilateral cooperation. The report contains Crop Diversification Action Plan for 10 years and Master Plan for 15 years. Based upon the crop diversification potential, the state has been divided into four categories as under :-

Category	No. of Blocks	Status /Potential	Major Districts
I	21	Diversification in advance stage and limited potential for expansion.	Kinnaur, Kullu, Lahaul & Spiti, Shimla, Solan, Sirmaur.
II	11	Potential for area expansion.	Kangra and Mandi
III	30	Large potential for area expansion.	Bilaspur, Hamirpur, Kangra, Una
IV	13	Limited potential for crop diversification, potential for integrated farming i.e. Horticulture, Animal Husbandry etc.	Chamba, Bilaspur, Shimla
Total	75		

JICA Contact Mission visited the state from 23-25th June, 2009 and had detailed discussion with State Government. The Mission showed their willingness to consider JICA ODA Loan for crop diversification project. The State was willing to cover entire state under the project and to provide JICA ODA Loan of Rs.949.00 crores as per the Master Plan projections but the JICA Mission expressed that rather than covering entire state from the outset (which requires extensive resources for implementation and longer time for project outcome), it would be more sensible to start the project by focusing in certain regions, crops, so as to get faster and tangible results. The result of the project can be replicated to other regions. It was also suggested to take maximum 4-5 districts with project cost of Rs. 250-300 crores.

Based upon the JICA study and JICA Contact Mission report, Five districts comprising of Kangra, Mandi, Hamirpur Bilaspur and Una which fall in category II & III i.e. most potential for crop diversification were included in the project and based upon the outcome of this project, matter can be taken with JICA to sanction second phase of the project for left over districts.

The project proposal was submitted in May, 2009 to the Govt. of India for approval and financing. After series of discussions, the projects Minutes of Discussion (MoD) were signed between Govt. of India, JICA and Govt. of Himachal Pradesh on 01.10.2010 at New Delhi. The loan agreement was signed on 17th February, 2011 between Ministry of Finance, Govt. of India and JICA and loan effectuation was done from 16th June, 2011. Global Tender Notice for Expression of Interest [EOI] for procurement of Project consultants has also been floated on 1/3/2011. The flow of funds from ODA shall be on the basis of reimbursement, therefore, earmarked token provision for this Project in the Annual Plan Budget for the year 2011-12 of Rs. 8.20 crores was made in annual plan 2012-13, outlay of Rs. 20.00 crore has been made for execution of this project. The project area comprises 5 districts Kangra, Mandi, Hamirpur, Bilaspur and Una. The project period is 7 years i.e. 2011 to March, 2018 and the total project cost is Rs. 321 Crores (Loan Rs. 266 crores and State share Rs. 55 Crores). The launching of the project was done on 14th August, 2011.

Objectives of the Project:

1. Increase the area and production of vegetables through crop diversification.
2. To raise income of small and marginal farmers.
3. To create infrastructures for irrigation, farm access roads, marketing, post harvest etc.
4. To promote organic farming in a big way.
5. To organize farmers into groups to take over operation and maintenance of irrigation systems.
6. Training and capacity building of Department of Agriculture field extension staff.
7. The project is being implemented through **Himachal Pradesh Agriculture Development Society**. It has Governing Council, Executive and Finance Committee. For overall management of the project, State Project Management Unit (PMU) has been set up at Hamirpur, three District PMU's at Palampur, Mandi, Hamirpur and 8 Block PMU's at Dehra, Nurpur, Baijnath, Hamirpur, Una, Bilaspur, Mandi, Sarkaghat have been set up.

Project Components:

1.	Infrastructure Development	Development of new Micro-Irrigation Systems	172 No's	2816 ha. CCA
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	(Rs. 130.21 crores)	Improvement of Minor Irrigation Systems	38	896 ha. CCA
	Total		210	3712 ha.CCA
		Development and improvement of Farm Access Roads	147	100 km.
		Demonstration on Micro-Irrigation	52	1 Demonstration for 4 Projects
2.	Farmers Support Program (Rs. 32.02 crores)	1. Organisation of Farmers Groups. 2. Promotion of Organic Farming. 3. Vegetable Promotion Training. 4. Food grain Productivity Enhancement. 5. Post Harvest / Marketing. 6.Collection Centres (23Nos.)		
3.	Institutional Development (Rs. 34.41 crores)	1.Strengthening of Department of Agriculture, Setting up Project Management Units. 2. Strengthening of Extension Service, function and training of staff. 3. Baseline Survey / Impact Assessment/Monitoring. 4. Setting up of MIS/GIS.		
4.	Other Costs (Rs. 124.36 crores)	Contingencies, Price Escalation, Consulting services, General Administration, Tax and Duties, Commitment Charges, Interest		
	Grand Total	JICA ODA Loan : Rs. 266.00 crores (90% Grant and 10% Loan) State Share : Rs.55.00 crores Rate of Interest on Loan: 1.4% Loan repayment period : 30 Years.		

District-wise breakup of proposed Infrastructure Development Component (tentative) of the project

District	No. of Irrigation Projects	CCA (ha.)	Farm Access Roads (km.)	Total Amount (Rs. in lakh)
Kangra	56	1352	22.80	3769
Mandi	54	984	28.10	2807
Hamirpur	39	532	18.50	2001
Bilaspur	18	313	6.90	1037
Una	43	531	23.70	1559
Contingency 5%	-	-	-	560
Support Services (Demonstration on MIS, Farm Access Roads & Capacity Development etc.)				1288

Total	210	3712	100.00	130.21
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Year-wise phasing of the project:

S.N.	Year	Financial Provision (Rs.in Crores)		
		Eligible	Non-eligible	Total
1.	2011-12	10.16	1.86	12.02
2.	2012-13	33.62	5.85	39.47
3.	2013-14	45.47	8.19	53.67
4.	2014-15	56.7	10.69	67.44
5.	2015-16	58.35	11.76	70.10
6.	2016-17	53.88	11.76	65.63
7.	2017-18	7.76	4.89	12.66
	Total	266.01	55.00	321.09

12. SOIL & WATER CONSERVATION:

Due to topographical factors, the soil is subject to splash, sheet and Gully erosion resulting into degradation of the soil. Besides this, there is biotic pressure on the lands to the curb this menace particularly on the agricultural lands. The Department of Agriculture, H.P. is executing two Soil and Water Conservation schemes under State Sector Scheme. The schemes are:

- i. Soil Conservation Works
- ii. Water conservation and development

Now soil & water conservation works are being carried out under MNREGA and State Plan outlay has not been given.

13. AGRICULTURE RESEARCH AND EDUCATION:

Under this, GIA is given to Agriculture University for Teaching, Research & Extension. Emphasis is being laid on location specific research for adoption of the same by the farming community of the State.