

From

Director General Horticulture,
Haryana, Panchkula.

To

The Principal Secretary to Govt. Haryana,
Agriculture & Farmers Welfare Department, Chandigarh

Memo No. Hort. B-II/HBC(P)/2/8/IX/

Dated, Panchkula, the: -

Subject: - Sanction for 2401-Crop Husbandary-119-Horticulture & Vegetable Crops (SB No. 66): Plan Scheme for Horticulture Biotechnology Centre in Haryana State for the year 2018-19.

It is a continuing plan scheme. This Scheme was started in the year 2008-09. The scheme was sanctioned by State Govt. vide letter No. 1041-Agri.II(5)-2017/5265 dated 21.04.2017 for a total amount of Rs. 136.00 lakhs with revised outlay of Rs. 146.00 lakhs in the year 2017-18. An estimated amount of Rs.309.00 lakhs has been proposed for the year 2018-19.

Since the adoption of horticulture in the Haryana State, new technologies have been advented and now been popularized among the farmers. As per the practices, the technique of tissue culture is technology based and requires scientific inputs, therefore, as Horticulture Bio-Technology Centre was established at Shamgarh, Karnal and inaugurated on 06.04.2016 with facilities of Growth Room, Inoculation Room, Media Storage Room, Auto Clave Room, Media Preparation Room, Washing Room, Store Room, Supervisory Room & Lab Incharge & Ministerial staff Room and cold storage at the farm itself.

Aims and Objectives:

The scheme was formulated with the following objectives: -

1. To provide the state and country with a world-class biotechnological infrastructure for domestic needs as well for export use.
2. Mass propagation of planning material of newly developed crop varieties and rare medicinal, horticulture and ornamental plant species.
3. Service to the public through application for biotechnology expertise in areas of tissue culture, DNA Fingerprinting and Virus Indexing.
4. Need based research to strengthen the ongoing production activities in the lab.
5. Development of protocols for genetic diversity analysis and clonal fidelity testing of in vitro raised plants using molecular markers.
6. Popularization of Biotechnology among users.
7. To impart training to entrepreneurs and farmers.

Benefits:

With the introduction of this scheme there shall be planned production of tissue culture plants and potato minitubers. The commercial production of high quality potato mini tubers has already been done and distributed to farmers during previous year.

Production Plan:

The major project will be of production of Potato Mini Tubers for which PTC has already developed protocol successfully and to produce foundation and certified seed potato with the help of tissue culture technologies. The Department has made ambitious plan to be self-sufficient for production of potato breeder seed through tissue culture technology. The Department had consultancy contract with Central Potato Research Institute, Shimla. Potato Technology Center is also conducting field trials on heat tolerant varieties of potato in collaboration with International Potato Centre (CIP) under AICRP. Accordingly production plan has been proposed and is tabulated below:-

- 1) Potato Micro Plants Production the mini tuber production programme schedule from 2016-17 to 2021-22 is given as under.

Sr. No.	Year	Inputs (Micro Plants)	Output (Mini Tubers)
1.	2016-17	100000	500000
2.	2017-18	100000	500000
3.	2018-19	100000	500000
4.	2019-20	100000	500000
5.	2020-21	100000	500000
6.	2021-22	100000	500000

After harvesting in the month of March these mini tubers (MT) foundation certified seed will be kept in cold storage for next year production plan.

Programme

- To meet the objectives of this scheme. The scheme is being implemented in two phases. --In the first phase propagation of Potato Micro plants are being taken up in laboratory area and production of Potato Mini Tubers, foundation and certified seed and cutting of flower crops shall be multiplied on large scale. After multiplication and production of these tubers they shall be supplied throughout the State and even to other States as well.
- Presently, HBC is headed by Deputy Director Horticulture. However, there would be requirement of filling of regular staff viz. three technical officers in the field of Bio-technology and Virology along with Technical Assistants and driver and rest of the man power shall be engaged on contract.
- In the second phase large-scale propagation of Horticulture important crops shall be taken and further the concept of DNA finger printing and virus indexing technology shall be introduced.

To run the affairs of lab various provisions under different sub-head have been made. A provision of Rs. 5.00 lakh has been kept for office expenses & Minor Works Rs.128.00 lakhs for other civil work (boundary wall) and Rs. 3.00 lakh for Furniture. Potato multiplication through Mini tubers requires additional shade net house (Rs. 22 lakhs under development of farm) and other store and equipment, harvester etc. (Rs. 35 lakhs). An amount of Rs. 10.00 lakhs has been kept for material & supply for the lab and field for production of planting material. At present the lab is run by contractual staff for which an amount of Rs. 50.00 lakhs has been kept. An amount of Rs. 4.00 lakhs is proposed for under POL to operate diesel Gen set for the lab.

The total expenditure of Rs. 309.00 lakhs will be met under the following head of accounts:

**“2401-Crop-Husbandry-119-Horticulture and Vegetable Crops
(SB No. 66) : Plan Scheme for Horticulture Bio-Technology Centre in
Haryana State for the year 2018-19”**

The Headquarter of the scheme will be at Panchkula. The Director General Horticulture of Haryana, Panchkula will be Controlling Officer of this scheme. Budget Officer, Directorate of Horticulture, Haryana, Panchkula at Directorate level and Deputy Director Horticulture, Horticulture Bio-Technology Centre, Karnal will be the Drawing and Disbursing Officer of the scheme.

It is therefore, requested to accord necessary administrative-cum-financial sanction for a total amount of Rs. 309.00 lakhs.

(Ashok Kumar Kaushik)
Budget Officer,
for Director General Horticulture, Haryana

Endst. No. Hort. B-II/HBC(P)/2/8/IX/

Dated, Panchkula, the: -

A copy is forwarded to the Additional Chief Secretary to Govt. Haryana, Finance Department, Chandigarh for information and necessary action.

(Ashok Kumar Kaushik)
Budget Officer,
for Director General Horticulture, Haryana

STATEMENT OF COST IN RESPECT OF PLAN SCHEME FOR 2401-CROP-HUSBANDRY-119-HORTICULTURE AND VEGETABLES CROPS (SB NO.66) PLAN SCHEME OF HORTICULTURE BIO-TECHNOLOGY CENTRE IN HARYANA STATE FOR THE YEAR 2018-19.

SUMMARY

Code No.	Component	Amount (Rs. In Lakhs)
02	Wages	2.00
05	Office Expenses	5.00
17	Minor Works	128.00
24	Material and Supplies	10.00
34	Other Charges	10.00
45	POL	4.00
47	Store & Equipment	35.00
69	Contractual Services	50.00
92	Energy charges	40.00
97	Development of Farm	22.00
98	Furniture	3.00
	Total	309.00

B.M. 2
Paragraph 5,2,3,5,3,6,4,5,4,6,4,7,4,8,4.11,5.17, (ii) (a) and Appendix H
ANNEXURE-I
FORM BM2
MAJOR HEAD

(Rs. in lakhs)

Code No.	Major Head SUB MAJOR HEAD STANDARD OBJECT OF EXPENDITURE	Budget 2017-18	Accounts 2015-16	Actual of previous year 2016-17 for last 6 month	Actual of current year 2017-18 for first 6 months	Revised estimated 2017-18 proposed by Head of Deptt.	Budget Estimate 2018-19 Proposed by Head of Deptt.
02	Wages	4.00	2.24	0	0.16	2.05	2.00
05	Office Expenses	5.00	3.79	0.72	1.01	5.00	5.00
17	Minor Works	10.00	11.75	50.54	0	7.53	128.00
19	Machinery & Equipment	10.00	19.38	2.00	1.02	13.05	0
24	Material & Supplies	10.00	3.97	4.61	1.13	10.00	10.00
33	Professional & Special Services	0	0	0	0	0	0
34	Other Charges	10.00	9.86	0.44	0.65	10.00	10.00
45	POL	4.00	1.31	1.19	00.45	4.00	4.00
47	Store & Equipment	-	-	0	-	-	35.00
69	Contractual Service	40.00	23.70	18.91	13.01	46.37	50.00
92	Energy Charges	40.00	13.00	13.07	10.80	45.00	40.00
97	Development of Farm	-	-	0	-	-	22.00
98	Furniture	3.00	25.92	0	0	3.00	3.00
	Total	136.00	114.92	91.48	28.23	146.00	309.00