

CHAPTER - 2

AGRICULTURE & ALLIED ACTIVITIES

The contribution of agriculture sector has been reduced in NCT of Delhi, because of growing urbanization and the growth of trade and industry sector. Also, fast growth of services sector is making agriculture and rural economic activities less attractive. As a result, the contribution of agriculture and allied activities in the Gross State Value Added (GSVA) of Delhi at current prices has declined year after year. More clearly, the percentage contribution of agriculture sector to GSVA of Delhi at current prices reduced from 0.94 per cent in 2011-12 to 0.49 per cent in 2018-19.

Revised outlay & expenditure of 2017-18, Approved outlay & Revised Outlay 2018-19 and Annual Outlay 2019-20 for Agriculture & Allied Activities Sector are as under:

[₹ in Crore]

Sector	Annual Outlay 2017-18		Annual Outlay 2018-19			Annual Outlay 2019-20
	Revised Outlay	Expenditure	Approved Outlay	Revised Outlay	Exp	
Agriculture & Allied Activities	24.50	18.07	41.00	40.00	16.54	163.00

Total Outlay of ₹ 210.69 crore kept in B.E. 2019-20 on Agriculture & Allied Activities Sector. This includes revenue budget of ₹ 198.19 crore and capital budget of ₹ 12.50 crore. An amount of ₹ 163 crore is kept for implementation of various schemes, programmes and projects under Agriculture & Allied Activities sector.

I. DEVELOPMENT DEPARTMENT

A. ANIMAL HUSBANDRY UNIT

Schemes under implementation are as under:-

1. Improvement of Veterinary Services and Control of Contagious Diseases

Budget Allocation 2019-20	:	₹ 1600 Lakh
Capital Component	:	₹ 700 Lakh
Revenue Component	:	₹ 800 Lakh (General)
		₹ 100 Lakh (SCSP)

The Animal Husbandry Unit of the Development Department has 46 Veterinary Hospitals, 28 Dispensaries and 01 polyclinic in Bawana and 02 First Aid centres at Sarangpur and Katewara for improvement of Veterinary Services and Control of Contagious Diseases. Under the scheme construction/reconstruction of Veterinary

Hospitals and Dispensaries is carried out. An expenditure of ₹ 170.65 Lakh (₹ 80.52 Lakh under capital head) has been incurred during 2018-19.

Department will establish one multi-specialist Hospital from the equipment instrument.

Physical Achievements 2018-19:

S. No.	Activity	Target 2018-19	Achievement
i	Treatment of Sick animals cases	5.00 Lakh	460769
ii	Vaccination against Heamorrhagic Septicaemia and FMD Disease 4T lakh each.	H.S-3.00 Lakh F.M.D- 3 Lakh	175867 185747
iii	A-I with Frozen Semen in cow	15000 Nos.	7243
iv	Anti Rabies Vaccination of Dogs	50000 Nos.	19630
v	Treatment of Sterility Cases	25000 Nos.	16185

2. INTEGRATED AGRICULTURE DEVELOPMENT SCHEME INCLUDING EXTN., EDUCATION PROGRAMME, A COMPONENT OF VERMI COMPOST – SCSP

Budget Allocation 2019-20 : ₹ 5 Lakh (Revenue)

Objective: i) Promote organic farming through awareness programs and production of vermi compost.

Activities: i) Awareness programmes for farmers will be organized.
ii) Training will be imparted to the technical staff.
iii) Vermi-compost will be encouraged.

The following activities/ parameters achieved during 2018-19 against the targets as mentioned below under the scheme:

S. No.	Activity	Target 2018-19	Achievement
i	Production of Vermi compost	10000 Kg	14820 Kg
ii	Farmer training cum demonstration camp	55 Nos	10
iii	Farmers study tours	4 Nos	--

3. SOIL TESTING & SOIL RECLAMATION OF SALINE, ALKALI, SOIL - SCSP

Budget Allocation 2019-20 : ₹ 1 Lakh (Revenue)

Objective : i) To improve soil fertility and productivity.

- Activities :
- i) Soil samples will be tested.
 - ii) Water samples will be tested for electric conductivity.
 - iii) Soil health cards will be issued.

The following activities / parameters achieved during 2018-19 against the targets as mentioned below under the scheme:

Activity	Target 2018-19	Achievement
Testing of Soil samples	800 No.	768
Testing of Water samples	45 No.	45
Issue of Soil Health cards	800 No.	625

4. GIA TO ANIMAL WELFARE ADVISORY BOARD OF DELHI

Budget Allocation 2019-20 : ₹ 10 Lakh (Revenue)

The board is an advisory body for Govt. of NCT of Delhi regarding various animal welfare activities and release of grant in aid for NGO's/AWOs engaged in animal welfare activities in NCT of Delhi.

The guidelines for Board's recognition and Financial Assistance/ Grant in aid to Animal Welfare Organization in Delhi, applicable are as under:-

- i) These guidelines will apply to such NGOs/ Institutions are engaged in activities for the welfare of animals in Delhi.
- ii) Assistance / Grant in Aid will be given to such NGOs/Institutions which in the opinion of the Board are rendering useful service in the field of welfare of animals in Delhi.

The Delhi Advisory Board for Animal Welfare recognizes NGOs /Institutions and provides Grant in Aid to such NGOs/Institutions which are engaged in the maintenance, health care, treatment of unproductive animals and other related animal welfare activities.

5. GIA FOR SHIFTING OF DAIRY COLONIES

Budget Allocation 2019-20 : ₹ 1200 Lakh (Revenue)

The Delhi Agriculture Cattle preservation Act 1994, ther is provision of establishment of institutions under section 10. The section reads that there shall be established by the Government or any Non-Government organization wherever so directed by the Government, institutions for the reception, maintenance and the care of agricultural cattle.

In pursuance of section 10 of the Delhi Agriculture Cattle Preservation Act 1994, the Cabinet decision was taken vide no. 94 dated 29.07.1994 wherein, Gram Sabha Land were allotted to the Animal Husbandry Unit of the Development by the

Panchayat Unit of 99 years lease for further allotment on license deed basis to NGOs for setting up Gausadans. And accordingly 05 gaushalas/gausadans are established in year 1995.

Hon"ble High Court of Delhi in CWP No. 14175/05 and Civil Misc. Petition No. 2623 and 2634/2006 has passed an order on 01.03.2006 and directed to make payment of ₹ 25/- per day per cattle to for the purpose of maintenance of the health of the cattle in the Gaushalas. The Govt. of NCT of Delhi has to pay ₹ 5/-per day per cattle and rest of ₹ 20/-per day per cattle is to be paid by MCD.

The Govt. of Delhi has increase the amount of ₹ 5/- per day per cattle to ₹ 20/- per day per cattle vide Order no. F.12(226)/AHD/Feeding/2011/5090 dated 13.01.2012 w.e.f. 01.01.2011.

6. GIA TO DELHI SOCIETY PREVENTION OF CRUELTY TO ANIMALS (S.P.C.A.)

Budget Allocation 2019-20 : ₹ 400 Lakh (Revenue)

For proper enforcement for Cruelty of Animals Act, 1961, Delhi Government has constituted Delhi SPCA Board. Besides enforcing various provisions of existing Prevention of Cruelty to Animals Rules of the Act, the Board has two Vety. Hospitals cum infirmaries at Tis Hazari & Darya Ganj where sick animals, sick injured and suffering animals are provided treatment shelter feeding and health care. The Board also looks after the Public Awareness Campaign for passion towards animals and their suffering.

7. EXPANSION & REORGANISATION OF FISHERIES ACTIVITIES IN DELHI

Budget Allocation 2019-20 : ₹ 20 Lakh (Capital)

The following activities/parameters achieved during 2018-19 against the targets as mentioned below under the scheme:

Activity	Target 2018-19	Achievement
Fish Production	1000 MT	785 MT*
Fish seed production	20 lakh	02 lakh
Fishing Licences	1500 No.	1143 No.

* Estimated

Centrally Sponsored Schemes

8. NATIONAL MISSION ON SUSTAINABLE AGRICULTURE (NMSA) (CSS)

There are two sub components under this scheme:-

- Strengthening of Existing Veterinary Hospital & Dispensaries (CSS)

ii. Rationalisation of Minor Irrigation Schemes (CSS)

National Mission for Sustainable Agriculture (NMSA) derives its mandate from National Action on Climate Change (NAPCC, 2008) and envisages multi-pronged, long term and integrated strategy achieving country's key developmental goals while negotiating impacts of climate change. Mission Document of NMSA has been approved 'in principle' by Prime Minister Council on Climate Change (PMCCC). NMSA strategizes transformation of Indian Agriculture into a sustainable and climate resilient production system by mainstreaming / embedding appropriate climate change adaptation measures onto ongoing and future programmatic / schematic interventions. Accordingly, this restructured Mission of DAC along with Rashtriya Krishi Vikas Yojana (RKVY) will address various key dimensions as outlined in NMSA Mission Document, besides catering to diverse needs of Indian Agriculture.

i) Strengthening of Existing Veterinary Hospital & Dispensaries (CSS):

Budget Allocation 2019-20 : ₹ 20.00 Lakh

Under the scheme, construction/ reconstruction of veterinary hospitals and dispensaries is carried out.

Under this scheme there was Opening Balance of ₹19.32 lakh as on 01.04.2015. No Expenditure incurred during 2015-16 to 2018-19 and no funds have been received from GOI during 2015-16 to 2018-19.

ii) Rationalisation of Minor Irrigation Schemes (CSS):

Budget Allocation 2019-20 : ₹ 16 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme.

Aims/ Objectives/ Activities:

This scheme was launched by the Ministry of Water Resources, Govt. of India during the year 1987 with full financial support and the brief activity of the scheme are as under.

- a) The main objective of this CSS scheme is to build and updation of statistical data, comprehensive and reliable data base on Minor Irrigation for the purpose of various planning at the Union Government and State Level.
- b) The other aims and objective is to conduct all India Census of minor irrigation on quinquennially basis in the states covering all ground water and surface water Minor irrigation schemes.
- c) This scheme has one post of Statistical Officer and 100% expenditure on salary of the officer and other expenses being borne by the Govt. of India.

- d) IV Minor Irrigation Census was conducted for the reference period 2006-07 which has been completed by the GOI and now the Vth Minor Irrigation Census will be for the reference year 2013-14.

Under this scheme there was Opening Balance of ₹ 6.07 lakh as on 01.04.2018 and ₹ 0.30 Lakh Expenditure incurred during the FY 2018-19. There is unspent balance of an amount of ₹ 5.77 lakh as on 01.04.2019.

9. NATIONAL LIVESTOCK HEALTH AND DISEASE CONTROL PROGRAMME (NLHDC) (CSS)

There are four sub components under this scheme :-

- i. Foot and Mouth Disease Control Programme (CSS)
- ii. Veterinary Council (CSS)
- iii. Assistance to States for Control of Animal Diseases (CSS)
- iv. Live Stock Health & Disease Control (CSS)

The objectives of this scheme National Livestock Health and Disease Control Programme are:

- a) To control emerging and exotic diseases; collection, compilation and dissemination of monthly animals disease status.
- b) To establish Veterinary Council of India at Centre and State Veterinary Councils.
- d) To control Foot and Mouth Disease.

i) Foot and Mouth Disease Control Programme(CSS):

Budget Allocation 2019-20 : ₹ 40 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme

Aims/ Objectives/ Activities:

1. Govt. of India has launched this scheme in 2002-2003 for the mass vaccination throughout India. The mass vaccination is to be carried out under special campaign at the same time scheduled bi-annually all over India as per the direction of Department of Animal Husbandry, Ministry of Agriculture, Govt. of India.
2. Department of Animal Husbandry, Ministry of Agriculture, Govt. of India provides vaccine to the Development Department as per schedule.

3. Foot and Mouth disease is major contagious viral disease of economic importance of cloven footed animals. This disease claims high morbidity and low mortality, but the animals lose its economical importance.
4. The logistics /medicine are procured under this scheme.

Physical Achievement :

Activity	Target 2018-19	Achievement
Vaccination against Foot & Mouth Disease (FMD)	3.00 Lakh	1.85 Lakh

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, GOI has released funds amounting ₹ 30.00 lakh to GNCTD during 2017-18 vide sanction letter dated 05.05.2017.

Detail regarding the funds under above mentioned CSS in 2017-18 and 2018-19 is mentioned as below :

S.No.	Particulars	Amount
1	Unspent balance as on 01.04.2017	₹ 15,00,456/-
2	Funds received from GOI during 2017-18	₹ 30.00 lakh
3	Total funds available 2017-18	₹ 45.01 lakh
4	Expenditure incurred during 2017-18	₹ 24.61 lakh
5	Total funds available 2018-19	₹ 36.77 lakh
6	Expenditure incurred during 2018-19	₹ 21,76,544/-
7	Unspent balance as on 01.04.2019	₹ 15,00,456/-

Under this CSS funds released by GOI for procurement of FMD vaccine for carrying out FMD vaccination and meeting expenditure on logistics for carrying out vaccination under Foot & Mouth Disease Control Programme (FMD-CP) to carry out vaccination of all eligible animals as envisaged under the programme as per schedule of vaccination.

ii) Veterinary Council (Professional Efficiency Development) (CSS):

Budget Allocation 2019-20 : ₹ 30 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme

Aims/ Objectives/ Activities:

1. For Regulation of Veterinary Practice in NCT of Delhi as per provisions of Indian Veterinary Council Act, 1984, Govt. of NCT of Delhi has established Delhi Veterinary Council.
2. The Council maintains register of qualified veterinary practitioner.

3. Under Professional Efficiency Development Programme council organizes seminars/workshop to enhance professional knowledge of veterinarians of Delhi State.
4. Council initiates the action against unregistered / illegal /quack veterinary practitioner as per section 30 chapter 3 of Indian Veterinary Practitioners Register of Delhi Veterinary Council.

iii) Assistance to States for Control of Animal Diseases (ASCAD) (CSS):

Budget Allocation 2019-20 : ₹ 40 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme

Aims/ Objectives/ Activities

1. Strengthening / modernization of Disease Diagnostic Laboratory. This includes minor alteration/modification of existing laboratory, purchase of tools, equipments, computers etc.
2. Evolving of policies and strategies relating to disease control and eradication of economically important diseases of livestock & poultry.
3. Training workshop/seminars for veterinarians/para-veterinarians.
4. Strategic immunization of livestock and poultry against economically important diseases.
5. Disease surveillance, monitoring and forecasting.
6. Information and communication campaign to ensure that the livestock holders are motivated for vaccination and treatment of animals.
7. To undertake measures to tackle disease situation in emergency due to occurrence of emerging and exotic diseases in the state.

The following activities/parameters achieved during 2018-19 against the targets as mentioned below under the scheme:

Activity	Target 2018-19	Achievement
Treatment of sick animal cases	5.00 Lakh	4.60 Lakh
Vaccination against Hemorrhagic Septicaemia (HS)	3.00 Lakh	1.75 Lakh
AI with Frozen Semen in cow & buffaloes	15000 Nos	7243
Anti-Rabies vaccination of dogs	50000 Nos	19630
Treatment of Sterility Cases	25000 Nos	16185

Under this scheme there was Opening Balance of ₹ 29.65 lakh as on 01.04.2018 and ₹ 4.19 Lakh Expenditure incurred during the FY 2018-19. There is unspent balance of an amount of ₹ 25.46 lakh as on 01.04.2019.

iv) Live Stock Health & Disease Control / National Animal Disease Reporting System (NADRS) (CSS):

Budget Allocation 2019-20 : ₹ 13 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme

Aims / Objectives/ Activities:

1. This scheme launched in the month of Jan-2011.
2. Department of Animal Husbandry, Ministry of Agriculture, Govt. of India has envisaged the need for the automation of its activities with the support of state of art information & communications technology in order to provide better services to its stakeholders in an efficient manner regarding diseases and other information related to livestock health.
3. For smooth functioning of the project Department of Animal Husbandry, Ministry of Agriculture, Govt. of India has provided 19 computers along with internet connection to this department under centrally sponsored scheme 'Live Stock Health and Disease Control' through NIC, Delhi State, which are installed at various hospitals and at AHD headquarter.
4. Funds have to be utilized for purchase of photocopier & fax machine and publication of disease report.

Under this scheme there was Opening Balance of ₹ 0.12 lakh as on 01.04.2018 and no Expenditure incurred during the FY 2018-19. There is unspent balance of an amount of ₹ 0.12 lakh as on 01.04.2019.

10. NATIONAL LIVESTOCK MANAGEMENT PROGRAMME (CSS)

Under this scheme, the following CSS sub schemes are covered and being implemented by Animal Husbandry Unit of Development department:-

- i. Conduct of Livestock Census (CSS)
- ii. Integrated Sample Survey for Estimation of Major Livestock products (CSS)
- iii. National Livestock Mission (NLM) (CSS)
- iv. Blue Revolution: Integrated Development and Management of Fisheries (CSS and State Share)

The National Livestock Management Programme is designed to cover all the activities required to ensure quantitative and qualitative improvement in livestock production systems and capacity building of all stakeholder. The Mission will cover everything germane to improvement of livestock productivity and support projects and initiatives required for that purpose subject to condition that such initiatives which cannot be funded under other Centrally Sponsored Schemes under the Department. This scheme emphasize on sustainable growth and development of

livestock sector, including poultry, increasing availability of fodder and feed to substantially reduce the demand – supply gap through measures which include more area coverage under quality fodder seeds, technology promotion, extension, post-harvest management and processing in consonance with diverse agro-climatic condition.

i) Conduct of Livestock Census (CSS)

Budget Allocation 2019-20 : ₹ 300.00 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme

Aims / Objectives/ Activities:

1. For proper planning and formulation of programme meant for bringing further improvement of any plan/scheme related to livestock sector and its effective implementation and monitoring its impact, data regarding Livestock at every possible administrative and geographical level is required. Therefore, Government of India conducts Livestock census at every five years (quinquennial).
2. Under this plan scheme all Livestock is to be enumerated of all the species of livestock maintained by the people in the NCT of Delhi.
3. 18th Livestock Census has been conducted in year 2007 and its work finished in 2011-12.

Physical Achievement:

1. 19th Livestock Census was conducted from 15 Sept to 15 October 2012. The Data entry work of 19th Livestock Census has been completed, revalidated and data provided to NIC Krishi Bhawan, New Delhi and report is likely to be published in due course by the concerned authority.
2. 20th Livestock Census was due in the year 2017 but actual works started in the year 2018-19. Infrastructure for the livestock census, tablets purchased and the work of survey will be done in 2019-20.

Under this scheme there was Opening Balance of ₹ 14.83 lakh as on 01.04.2018 and funds amounting 53.00 lakh was released by the Ministry, GOI to GNCTD out of which an expenditure of ₹ 29.44 lakh incurred during 2018-19. There is unspent balance of an amount of ₹ 38.39 lakh as on 01.04.2019.

ii) Integrated Sample Survey for Estimation of Major Livestock Products (CSS):

Budget Allocation 2019-20 : ₹ 20 Lakh

Funding Pattern: 100% Centrally Sponsored Scheme

Aims / Objectives/ Activities:

1. A data based sample survey to estimate the major livestock products such as milk, meat & eggs.
2. To work out average milk yield per day of cows and buffalos.
3. To study the utilization pattern of livestock products and the livestock management practices followed by farmers /animal owners at state level.
4. Expenditure of funds is mainly for salary of statistical staff.

iii) National Livestock Mission (NLM) (CSS):

Budget Allocation 2019-20 : ₹ 25 Lakh
General Component : ₹ 20.50 Lakh
SCSP Component : ₹ 4.50 Lakh
Funding Pattern : 100% Centrally Sponsored Scheme

“National Livestock Mission (NLM)” is the new scheme of GOI comprised following four Sub Missions :

- i) Sub-Mission on Livestock Development
- ii) Sub-Mission on Pig Development in North-Eastern Region
- iii) Sub-Mission on Fodder and Feed Development
- iv) Sub-Mission on Skill Development, Technology Transfer and Extension

Ministry of Agriculture and Farmers Welfare, GOI has allocated funds amounting ₹ 25.00 lakh to NCT of Delhi under the CSS “National Livestock Mission (NLM)” for the year 2016-17 vide OM dated 11.04.2016. Ministry of Agriculture and Farmers Welfare, GOI has also conveyed its A/A for implementation of CSS “National Livestock Mission (NLM)” to states/ UTs during the FY 2016-17 vide letter dated 11.04.2016. However, no funds were received from the GOI to Delhi during 2016-17, 2017-18 & 2018-19.

iv) a) Blue Revolution: Integrated Development and Management of Fisheries (CSS):

Budget Allocation 2019-20 : ₹ 300 Lakh

b) Blue Revolution: Integrated Development and Management of Fisheries (State Share):

Budget Allocation 2019-20 : ₹ 180 Lakh

“Blue Revolution: Integrated Development and Management of Fisheries” is a CSS of M/o Agriculture and Farmers Welfare, GOI. Blue Revolution, the Neel Kranti Mission has the vision to achieve economic prosperity of the country and the fishers and fish farmers as well as contribute towards food and nutritional security through

full potential utilization of water resources for fisheries development in a sustainable manner, keeping in view the bio-security and environmental concerns. This scheme is implemented by the Fisheries Unit of the Development Department, GNCTD.

During 2017-18, an amount of ₹ 101.16 lakh was released by the Ministry of Agriculture, GOI under the CSS 'Blue Revolution: Integrated Development and Management of Fisheries' vide sanction dated 28.12.2017.

Under this CSS scheme there was Opening Balance of ₹ 101.16 lakh as on 01.04.2018 and funds amounting 35.23 lakh was released by the Ministry, GOI to GNCTD out of which no expenditure incurred during 2018-19. There is unspent balance of an amount of ₹ 136.39 lakh as on 01.04.2019.

The project will be implemented in NCT of Delhi for the benefit of fish farmers/ fishermen/ SC/ ST/ women/ fishermen societies/ entrepreneurs and financial assistance will be provided to them at the rate of 40% general category and 60% for SC/ST/women beneficiaries by the central government and 30% assistance will be provided by the Delhi Govt. of the project cost and remaining cost will be borne by the beneficiary. As per revised administrative approval of GOI, the central share will be 40% of the project cost for general category and 60% for SC/ST/women and their cooperatives.

Considering consumers preference over animal products, there is ample scope for fish production in Delhi, although there is a rapid urbanization. The innovative schemes/ methods proposed such as Cage Culture and Re-circulatory Aquaculture System (RAS) produces more fish in a defined area compared to conventional system. The project thus focus mainly on increasing fish production and productivity and thereby increasing the additional source of income and improving the livelihood of fishermen community, SCs/STs and others engaged in fisheries activities. It will open ways for entrepreneurship and employment generation in fishery sector for educated unemployed youths in NCT of Delhi.

B. AGRICULTURE UNIT

1. SMART KRISHI YOJANA

Budget Allocation 2019-20	:	₹ 800 Lakh
Capital Component	:	₹ 550 Lakh
Revenue Component	:	₹ 250 Lakh

Under the new scheme 'SMART KRISHI YOJANA', the farmers will be provided technology to adopt high yielding, high quality varieties of agriculture and horticulture crops, so that the farmers to enhance their income double.

The scheme is to be implemented by the Development Department, GNCTD through NGOs which are engaged in agricultural and horticultural development activities in other States/ UTs and registered by the GOI/ State Govt. having subject expertise. The scheme/ programme is implemented on the basis of the recommendation and decision by the executive Committee.

NCT of Delhi is primarily a City State with total geographical area 1, 47,487 hectare. As per latest population census 2011, the total population of Delhi is 167 lakhs. There is limited area for agriculture and horticulture activity which is shrinking due to urbanization, industrialization and use of land for other non-agriculture purpose. Presently, the agriculture & horticulture activity contributes about 1% of State GDP. As per the agriculture census 2011 there are 20,000 no. farmers and 30,000 hectare area under agricultural activities.

The expansion of area and production under Agricultural and Horticultural crop is possible through introduction of Scheme titled "Smart Krishi Yojana" through establishment of High-Tech Demonstration Farms in Rural Areas of NCT of Delhi Under this Scheme the farmers will be provided technology to adopt high yielding high quality varieties of agricultural and horticultural crops thereby making the farmers capable to enhance their income in consonance with the agenda of the Govt. for doubling the farmers income as well as reduce their import and dependency of supply from the neighboring States.

Aims and Objectives of the Scheme:

- i) To motivate and create awareness among the farmers of Delhi through Field Demonstrations, Training and exposure visits of the farmers.
- ii) To Promote diversion of cropping pattern from cultivation of Agriculture crops to horticultural and Floricultural crops with the objective to obtain better return from the limited resources.
- iii) To increase the availability of fresh vegetables and flowers for Delhites thereby reducing the partial dependency on neighboring state

Need and justification of the scheme:-

On implementation of "Smart Krishi Yojana" in NCT of Delhi, the farmers would be attracted to adopt the cultivation of latest High-Tech Agricultural, Horticultural crops & Floriculture being lucrative and money spinner of agro-based activities. Further, Delhi is having good number of marginal and small farmers whose land holding are limited therefore would be capable to take-up willingly, which will help in expansion of Area, Production and Productivity.

Program Contents:

The Scheme will have following contents which are as under.-

- i) Imparting Training to the farmers on High Tech Agriculture, Horticulture and Floriculture for updation of their knowledge and skills.
- ii) Laying out Field Demonstration on High-Tech Agriculture, Horticulture and Floriculture after developing Demonstration Farms in NCT of Delhi.
- iii) Laying out of demonstration on promotion of Urban Kitchen Gardening through providing free of cost Kitchen Gardening Kits in association with NGOs and RWAs.

- iv) Development of infrastructure for information and field facilities for technical support of the scheme.
- v) Expenditure on hiring of consultants, contractual Staff and other work force.
- vi) Expenditure on other items like POL, TA, Purchas/ Hiring of Vehicle and other miscellaneous office expenses for smooth functioning of the scheme.

Mode of Implementation:-

The scheme is to be implemented by the Development Department. Govt. o NCT of Delhi, through the NGOs which are engaged in Agriculture and Horticulture Development Activities in other states/ UTs and duly registered by the Govt. of India/ State Governments having subject expertise with minimum Three years experience. The program contents under this scheme shall be supervised and monitored by the Technical officers of Development Department.

The Scheme programs implementation will be based on the recommendation and decisions of the Executive Committee to be constituted under the chairmanship of Secretary-Cum-Commissioner (Development).

Financial implications:

S. No.	Particulars	Amount (₹ in Crore)
1	Development of 3 No.s Demonstration Farms Infrastructure (Boundary Wall, Training Hall, Office Building, Gowdon etc.)	50.00
2	Green House, Poly House/Net House/Insect Proof Net	8.00
3	Installation of Irrigation (Drip/Sprinkler/ Fertigation Unit) System	1.00
4	Package House (Grading Machine, Packing Machine, TSS Machine, Weighting Machine, and Allied Equipments/ Instruments)	1.00
5	Establishment of High- Tech Nursery	1.00
6	Farm Machinery and Equipments (Tractor/Rotavator/ Cultivator/ Trolly/ Seed Drill/Leveler) and Allied items	5.00
7	Bee Keeping Training-cum-Production Units	3.00
8	Animal Husbandry and Fisheries Development Program	5.00
9	Establishment of Mushroom cultivation Lab. for Training-cum-Demonstration.	3.00
10	Purchase of Vehicle (Bus/Jeep)	1.00
11	Installation of Solar Pump in 3 Farms	0.50
12	Installation of Audio Visual Systems, Printing of Education Material	1.00
13	Purchase of Inputs for Demonstration	1.00
14	Engagement of Consultant and Resource Persons	0.30
15	Engagement of Work force/MTS	0.50
16	Rain Water Harvesting Project	1.50
17	Furniture and Fixture	0.10
18	Expenditure on Farmers Training and Refreshment	0.20
19	Miscellaneous Expenditure (POL /Electricity / Telephone / water supply / Maintenance Charges / TA/ Stipend/ Stationery/ Office Automation Equipments etc.	1.90
TOTAL		85.00

2. INPUT SALE CENTRES AT BDO OFFICES

Budget Allocation 2019-20 : ₹ 30 Lakh (Revenue)

Government will open its Input Sale Centres at BDO Offices for providing quality inputs like seeds of high yielding varieties; accrued from National Seeds Corporation, IARI, PUSA; organic & inorganic manures; insecticides/ pesticides/ fungicides etc. and better extension services to the farmers of Delhi at their door steps.

3. PARAMPARAGAT KRISHI VIKAS YOJANA (PKVY) (CSS)

Budget Allocation 2019-20 : ₹ 1000 Lakh (Revenue)

Objective of the Scheme:-

Organic agriculture is a production of agriculture product free from chemicals and pesticides residues by adopting eco-friendly low cost technologies “ Prampragat Krishi Vikas Yojana “ is an elaborated component of Soil Health Management (SHM) of National Mission of Sustainable Agriculture (NMSA) under PKVY, organic farming is promoted through adoption of organic village by cluster approach and PGS certification.

Concept of the Scheme:-

- i) Production of agriculture products free from chemicals and pesticides residues by adopting eco-friendly low cost technologies
- ii) Promotion of commercial organic productions through certified organic farming.
- iii) It will raise farmer's income and create market for traders.
- iv) It will motivate farmers for natural resources mobilization for input production.

Procedure:-

The scheme is being implemented by the State Government on farmers' fields. The implementing agency will identify targeted 50 Acre/20 Hectare of cultivated field for promotion of clusters.

Budget Allocation:-

The Ministry of Agriculture and Farmers Welfare, Govt. of India has released Rupees 4.71 Crores during Financial Year 2018-19.

Funding Pattern:-

100 % funding from Govt. of India.

Steps Taken for Implementation of PKVY

- i) The State Level Executive Committee has been constituted with the approval of Chief Secretary, Govt. of Delhi headed by Secretary-Cum-Commissioner (Development), Development Deptt., Govt. of Delhi.
- ii) The Secretary-Cum-Commissioner (Development), Development Deptt., Govt. of Delhi has constituted District Level Executive Committee (DLEC) in the Chairmanship of respective District Magistrates for implementation and monitoring of organic farming under PKVY Scheme.
- iii) 07 RCs/NGOs registered with National Centre of Organic Farming (NCOF) have been selected for implementation of the scheme in Districts viz. North, North-West, South-West and West of Delhi.
- iv) The 07 RCs/NGOs have been selected by SLEC on dated 20/09/18 and allotted 500 clusters among them to implement the scheme in Delhi State.
- v) The offer letters have been sent to the 07 RCs/NGOs for implementation of the scheme on 08/02/2019 as per villages allotted to them district-wise.
- vi) After receipt of the offer letter all the 07 RCs/NGOs have started the work in their respective allotted villages.

Action Plan:-

The implementing agency (IA) will identify targeted 50 Acre/20 hectares area of cultivated fields for formation of clusters, and, IA will conduct meeting of farmers of targeted areas to facilitate to form one cluster and after that an exposure visit for members will be arranged to create more practical knowledge and awareness about organic farming. The IA will also identify one lead resourceful person (LRP) from the cluster who represent the cluster and becomes trainer of trainer (TOT). The IA will also organise 03 training separately for members of cluster within early six months of projects on various topics besides training of PGS certification and quality control to LRP & TOT.

Achievements:-

The work on first component out of total 06 component is on progress and likely to be completed.

Under this scheme there was Opening Balance of ₹ 471.45 lakh as on 01.04.2018 and no expenditure incurred during 2018-19. There is unspent balance of an amount of ₹ 471.45 lakh as on 01.04.2019.

4. AGRICULTURE TECHNOLOGY MANAGEMENT AGENCY (ATMA) (CSS)

Budget Allocation 2019-20 : ₹ 50 Lakh (Revenue)

Agricultural Technology, including the adoption / promotion of critical inputs, and improved agronomic practices were being disseminated under 17 different schemes of the Department of Agriculture & Co-operation during the 11th plan. The Modified Extension Reforms Scheme was introduced in 2010 with the objective of strengthening the extension machinery and utilizing it for synergizing the interventions under these schemes under the umbrella of Agriculture Technology Management Agency (ATMA). NMAET has been envisaged as the next step towards this objective through the amalgamation of these schemes. National Mission on Agricultural Extension and Technology (NMAET) consists of 4 sub Missions:

- (i) Sub-Mission on Agriculture Extension (1)
- (ii) Sub-Mission on Seed and Planting Material (SMSP)
- (iii) Sub-Mission on Agricultural Mechanization (SMAM)
- (iv) Sub-Mission on Plant Protection and Plant Quarantine (SMPP)

Out of above four missions GNCT of Delhi is proposed to implement most important sub mission in agriculture in particular, as this mission consists of activities of remaining 3 missions because the commons threads running between all 4 sub missions are extension & technology.

The aim of the remaining three missions shall be popularization of modern and appropriate technology i.e. capacity building and institution strengthening to promote mechanization, availability of quality seeds, plant protection etc. "**Lab to Land**" services like testing of soil water samples for mainly for nitrogen phosphorus, potash pH and Micronutrients deficiency in soils & suitability of water for irrigation. Thereafter providing test and recommendation of balanced and integrated use of fertilizers and manures in a specific format of "**Soil Health Card**" to farmers of Delhi.

AIMS & OBJECTIVES OF THE ATMA

- i) To organise Village Level Trainings.
- ii) To organise Block Level Trainings.
- iii. To organise Distt, Level Trainings.
- iv) To organise Inter State Level Trainings.
- v) To organise exposure visits to extension functionaries.
- vi) To conduct field demonstration regarding use of fertilizers and different culture.
- vii) To organize field trials on Soil Testing recommended doses V/s Adhoc doses adopted by farmers.
- viii) To arrange Soil reclamation field trials by applications of Soil Amendments/ Ameliorants i.e. Gypsum with other input like FYM Zinc, fertilizers & manures and Dhaincha seed etc.
- ix). Farmers Scientist interaction workshop.
- x). Seed varietal trails shall also be conducted.
- xi). To organize visits of farmers and extension functionaries staff & officer at SAU and. their Projects where Extension cum latest Scientific Technology is being in operation.

- xii) Issue of "Soil Health Cards" after getting their field testing in Departmental laboratory.
- xiii) Any other activities related to ATMA in public interest.

STATUS REPORT

- i) Management Committee prescribed under ATMA scheme is constituted.
- ii) Inter Department working group (IDWG) is proposed & submitted to HQ for its constitution vide UO No. 03/JDA dt. 29/05/19
- iii) Governing Body (GB) has also been submitted to (HQ) for its constitution vide UO No . 03/JDA dt. 29/05/19
- iv) Proposal for engagement of Manpower on contractual basis is submitted to (HQ) lang back vide U.O. No. 21/JDA dated 26/03/2018 and is still pending.
- v) State Extension work Plan (SEWP) is prepared and proposed to send to Dev (HQ) for onward submission to worthy CS Delhi for convening a meeting of SLSC to be chaired by C. S. Delhi as Chairman of SLEC.
- vi) Head of Account of ATMA scheme has been opened last year 2018-19.
- vii) Budget Allocation for the year 2019-20 has also been received from Govt. of India vide letter No. F. No. 9-2/2018-AE dated 11.04.2019.
- viii) Three committees i.e. SFAC, DFAC & BFAC prescribed under ATMA being submitted to HQ for approval.
- ix) Block Technology Team is also proposed & shall be submitted to HQ for approval.

5. KISAN MITRA YOJANA (New Scheme)

Budget Allocation 2019-20 : ₹ 10000 Lakh (Revenue)

Govt. of NCT of Delhi will be the first Government to implement the Swaminathan Committee Report for the farmers of Delhi. Based on the recommendations of, this Committee Report , Govt. of Delhi has planned to launch the Mukhyamantri Kisan Mitra Yojana, under which Financial Assistance will be given to Delhi farmers by way of fixing the minimum support price for them & to compensate the difference of amount between the MSP fixed by Government of India for various commodities and the actual farming cost of the farmers in Delhi. Detailed modalities for making payment to the farmer under the scheme are being worked out.

A budget provision of 100 crore has been approved in 2019-20 for this purpose.

II HORTICULTURE UNIT IN ENVIRONMENT DEPARTMENT

1. HORTICULTURE/ FLORICULTURE

Budget Allocation 2019-20 : ₹ 100 Lakh (Capital)

Aims and Objectives of the Scheme:

- i) To enhance the production of improved and good quality flowers, and vegetable seeds and Fruit planting material at Government Seed Farm / Nurseries and to provide the same to the farmers as well as kitchen gardeners of Delhi on reasonable rates and to introduce the latest technologies for the cultivation of flowers, vegetables, fruits and medicinal / herbal crops/ plants, to the farmers.
- ii) To demonstrate low/high technology at Govt. lands for providing technical know-how to the farmers/kitchen gardeners/ Rural Youth / technical staff.
- iii) Collection dependable data on area and production relating to flower / vegetable / medicinal crops/plants involved for the cultivation of such crops.
- iv) To provide the technical know- how for growing high value crops to generate more income & employment to the public.
- v) To provide training to the farmers / rural youth who are interested to adopt the horticulture as profession.
- vi) Kisan Gosthis as well as trainings are organized to provide technical know how about latest technologies as well as latest varieties for growing / production of vegetables crops, floriculture crops, fruit / orchard crops, medicinal plants, mushroom production, preparation of wormy compost, protective cultivation etc., to the farmers of Rural /sub-urban areas as well as kitchen gardeners / trainees / youth of urban areas of NCT of Delhi, by the extension staff i.e. Horticulturists, Horticulture Assistants and Subject matter Specialists / Scientists from Indian Agriculture Research Institute, Pusa / Krishi Vigyan Kendra, Ujwa are invited to deliver their lectures, on their respective subjects. Kissan Gosthis are organized on Departmental Nurseries / Farmers fields. Departmental Horticulture Nurseries are being maintained, for demonstrations of various Horticulture Activities, raising seedlings , seeds of flowers & vegetables and medicinal plants. The same are provided/ sold to the farmers as well Kitchen Gardeners on reasonable rates on their easy reach. The awareness about more use of Insecticides / Pesticides and not to grow vegetables by using dirty/ Gunda Nallah water. The awareness about not to burn their crop wastes / dry leaves etc. and to use these waste by preparing compost, for further use in their crops, to save their some money and soil fertility. The awareness is also given to the trainees about soil health, to use chemical fertilizers, after their soil testing of micronutrients.

Achievements & Targets:

S. No.	Description of items	2018-19		2019-20
		Targets	Ach.	Target
A.				
1.	Ornamental plants (in Nos)	37000	38988	37000

S. No.	Description of items	2018-19		2019-20
		Targets	Ach.	Target
2.	Bulbs of bulbus plants (in Nos)	74000	16600	74000
3.	Flower Seedling (in Nos)	500000	505175	300000
4.	Flower seeds (in Kg.)	60	20.9	60
5.	Vegetable seedlings (in No's)	550000	592740	600000
6.	Vegetable seeds (in Kg.)	700	998	700
7.	Medicinal / Fruit saplings(in Nos)	30000	16840	27800

S. No.	Description of items	2018-19		2019-20
		Targets	Ach.	Target
B.				
1.	Area brought under Floriculture (in Hac.)	6525	6229	6530
2.	Area brought under Vegetables (in Hac.)	23470	24297	23500
3.	Production of Vegetables (in MT)	370476	352972	370500
4.i	Kissan Gosthies (in Nos)	100	100	100
4 ii	No. of trainees (in Nos)	2800	2800	2800
5.	Training to Rural Youth/ students (in Nos)	150	84	150
6.	Plantation on Gaon Sabha / Community / Govt. lands (in Nos)	2000	2430	1500
7.	Maintenance of community parks at Sadulazaib, Smriti Vatika, Nasirpur village in SW Distt. (in Nos)	04	04	04
8.	Production of Wormy Compost (in Kg.)	30000	53575	30000

Under the scheme “**Floriculture Production Programme**” various activities like Departmental Floriculture / Horticulture Nurseries, Floriculture Demonstration Centers, Govt. Seed farms cum Horticulture Nursery at Patparganj, Hauzrani, Dwarka, Libaspur, Kharkhari Nahar and Masoodabad, various Plantation sites on gaon sabha lands in various Districts / Blocks, Input sale centers and the parks to facilitate the residents of surroundings are being carried out / maintained.

Details of works executed, during the year 2018-19:-

- i) Construction of office cum store with toilet, garage of tractor, pathways, one gate, boundary wall and providing G.I. pipe line with hydrants at Masoodabad Nursery.(Work could not be completed during 2017-18, hence, continue)
- ii) Providing & laying HEPE pipe from Sewage Treatment Plant to Saidulazaib park (Horticulture) in Mehrauli Block .(Work could not be completed during 2018-19, hence, continue).
- iii) Raising of Boundary wall of existing Nursery and additional land of Horticulture Department at Sector-19, Dwarka, New Delhi .(Work could not be completed during 2017-18, hence, continue)
- iv) Repair / installation of Submersible pump at Libaspur-I and II Nurseries.

Details of Capital works to be executed, during the year 2019-20:-

- v) Providing supplying, testing and commissioning of 4.5 mtr. long GI pipe pole with 72 watt led light fitting and replacement of existing HPSV fitting 72 watt LED fitting including supplying and laying of aluminum cables etc
- vi) Development of Nasirpur Harijan Basti park Khasara No. 88 & 100 in Dwarka Constituency AC-33 by construction of footpath
- vii) Providing & laying HEPE pipe from Sewage Treatment Plant to Saidulazaib park (Horticulture) in Mehrauli Block .(Work could not be completed during 2018-19, hence, continued).

2. MISSION FOR INTEGRATED DEVELOPMENT OF HORTICULTURE (MIDH)/ NATIONAL HORTICULTURE MISSION (NHM)

Budget Allocation 2019-20	:	₹ 50 Lakh (Revenue)
General Component	:	₹ 41 Lakh
SCSP Component	:	₹ 9 Lakh

Ministry of Agriculture, GOI launched Centrally Sponsored Scheme National Horticulture Mission (NHM) during 2005-06 with 100% financial support of GOI for exclusively development of Horticulture in the state being potential crops. The GOI released ₹ 3.00 crore as GIA during 2006-07 and Dev. Deptt. who was having Horticulture unit till 2011-12 has spent a sum of ₹ 3,04,07,361/- (inc. interest) and balance of ₹ 29,78,088/- remained in the saving account of NHM at the end of FY 2011-12. After 2011-12, the NHM was not implemented during the year 2012-13, 2013-14 and 2014-15 due to non-receipt of funds from the GOI inspite of regular submission of Annual Action Plan to GOI.

Ministry of Agriculture, GOI has allocate Central share amounting ₹ 50.00 lakh vide letter dated 08.05.2015 Ministry of Agriculture, GOI vide its letter dated 16.04.2015 also stated that unspent balance of previous years and accrued bank interest earned on central GIA under plan schemes of Horticulture division stands revalidated.

The nomenclature of the scheme is also changed from NHM to MIDH as well as funding pattern on 50:50 basis between the Govt. of India and State Govt.

III REVENUE DEPARTMENT

1. Agriculture Census (CSS)

Budget Allocation 2019-20 : ₹ 50 Lakh

Ministry of Agriculture organizes Agriculture Census on quin quennial basis to collect statistical information relating to structural aspects of agricultural operational holdings in the country. The latest Agriculture Census 2015-16, which is 10th in the series, was launched in the State Agriculture Census Commissioner's Conference held in New Delhi on 3rd February, 2016.

Activities to be carried out for Census:

The Agriculture Census is carried out in 3 phases, according to the Manual of Schedules and Instructions for Data Collection prepared and circulated by Deptt. of Agriculture, Co-operation and Farmers' Welfare, M/o Agriculture, GOI.

Phase-I: In phase-I survey, the data/information on Resident operational holders and Area operated in villages, Non-resident operational holders and Area operated in the villages and village summery is collected in the Schedule L-1, L-2 and L-3 respectively by concerned Patwaris of the villages.

Phase-II: In phase-II survey, detailed data on operational holdings in the Schedule-'H' is collected by concerned Patwaris of Villages. Operational holdings contains the data on following aspects:

- i) **Particulars of operational holders:** Group-wise and size class-wise in r/o individual operational holders.
- ii) **Area operated by tenancy:** Owned & self-operated area and tenancy status-wise operated area.
- iii) **Land utilization:** Total irrigated / unirrigated, total operated as well as irrigation status.
- iv) **Cropwise Area (other than horticulture):** Exhibits the total D1 Block – irrigated and unirrigated area.
- v) **Cropwise Area (Horticulture):** Exhibits the total D2 Block – irrigated and unirrigated area.
- vi) **Total Area under all crops:** Irrigated area of Block D1 and Block D2 and unirrigated area of Block D1 and Block D2 for all crops.

Phase-III: After completion of phase-I & phase-II, the information on Input Survey regarding application of fertilizers and its impact is collected by

concerned Village Level Workers(VLWs) of Villages. Input Survey contains the data on following aspects:

- i) Parcel-wise details of area under multiple cropping according to irrigated and unirrigated conditions.
- ii) Area under irrigated/unirrigated crops and usage of chemical fertilizers, manures and pesticides.
- iii) Livestock held by operational holder at particular point of time.
- iv) Agricultural machines/equipment used by operational holder.
- v) Agricultural Credit availed of by operational holder.
- vi) Information on use of seeds, IPM and Soil testing.

In Delhi, Agriculture Census 2015-16 is carried out in 175 villages located in 30 Tehsils of 10 Districts against 195 villages in Agriculture Census 2005-06 since at present agriculture is being carried out in 175 villages of Delhi.

Present Status:

Data of Phase-I and Phase-II survey has been completed in all respect and national level results will be published soon by GOI. The Phase-III Survey has already been completed and the data of Phase-III Survey has been sent to NIELIT, Kolkata for validation which may be finalized soon by GOI.

Financial Status:

During the year 2018-19 an amount of ₹ 46.24 Lakh has been received from Deptt. of Agriculture & Co-operation, Min. of Agriculture, GOI and an expenditure of ₹ 32.76 lakh has been incurred for implementing the Scheme during the year 2018-19.