CHAPTER-8

SCIENCE TECHNOLOGY & ENVIRONMENT

Revised Outlay & Expenditure FY 2016-17, Approved outlay & Revised outlay FY 2017-18 and Annual Outlay 2018-19 for Science, Technology & Environment Sector are as under:

[₹ in crore]

Department / Agency	2016-17		2017-18			2018-19 BE
	RE	Exp	BE	RE	Exp	
Environment	9.00	7.46	17.00	14.00	11.77	17.00
Forest	30.00	22.47	40.00	28.00	23.36	37.00
IT	4.00	3.78	33.00	6.00	1.03	7.00
Total	**43.00**	**33.71**	**90.00**	**48.00**	**36.16**	**61.00**

Total Outlay of ₹ 109.95 crore kept in B.E. 2018-19 on Environment & Forest. This includes revenue budget of ₹ 79.45 crore and capital budget of ₹ 30.50 crore. An amount of ₹ 54 crore is kept for implementation of various schemes, programmes and projects under Environment & Forest sector.

ENVIRONMENT DEPARTMENT

Rapid rise in population and speedy economic development has raised the concern for the environmental degradation in Delhi because of which Delhi is one of the heavily polluted city in India, having for instance one of the country's highest volumes of particulate matter pollution. Unprecedented scale and speed of urbanization in Delhi and consequent pressure on physical and social infrastructure has created damaging stress on living environment and affected the level of pollution adversely. Increase in number of vehicles in Delhi is far faster than construction of roads. Agriculture burning in the NCR and neighbouring states is one of the major contributor of the particulate and other gaseous pollutants in Ambient Air of Delhi. Besides, there is air pollution due to heavy construction activities, water pollution owing to dumping of untreated industrial and municipal wastes in the river and excessive ground water exploration. Recharging of ground water is the need of the hour. The government is emphasizing on rain water harvesting and solar energy in order to reduce pollution from thermal power. Sewage water gets discharged in storm water drain causing serious contamination. Hazardous waste, bio-medical waste and electronic waste are serious threat to environment. These are increasing with urbanization and economic development in the city. Government took various steps to increase the Green cover of the state. Government is also promoting Green buildings for conservation of water and reduction in generation of solid and liquid waste. The activities of Department of Environment are:

- Motivating citizens of Delhi to keep surroundings clean and green.

- Promoting an ethos of conservation of water by minimizing the use of water and wastage of water.

- Motivating the citizens to imbibe habits and life styles supportive of minimum waste generation, source separation of waste, disposing off the waste at the nearest storage point.

- Composting horticulture waste, to use it as manure for kitchen gardens, nurseries, parks etc.

- Creating awareness among public and sanitary workers to stop the indiscriminate burning of waste/leaves that causes air pollution.

- Sensitizing the citizens to minimize the use of plastic bags. Not to throw them in public places as they choke drains and sewers. Being non-biodegradable they cause water logging and provide breeding ground for mosquitoes. Also, to encourage the use of eco-friendly alternatives like jute, cloth and recycled paper bags, etc.

- Organizing Tree plantation programmes in schools, residential areas, parks, industrial areas etc.

- Creating awareness for celebrating festivals like Dusshera, Diwali, Holi in an eco friendly manner.

- Educating the citizens about reuse of waste material by promoting the concept of the three R's i.e. Reduce, Reuse and Recycle.

- Coordinating with the various Departments/Agencies to combat climate change issues such as energy conservation, water conservation by recycling of water, rain water harvesting, green building concept, use of renewable energy, installation of CFL, promotion of battery operated vehicle.

1. **Integrated Waste Management and other related activities**

    Budget Allocation 2018-19   :   ₹ 10 Lakh

Aims and Objectives of the Scheme:

- Sensitizing all concerned including various implementing agencies w.r.t. Waste Management in compliance to the revised Waste Management Rules issued by MOEF & CC, Govt of India.

- A new aspect of decentralized green waste management with special emphasis on kitchen waste and horticulture waste has been added as a part of this scheme in order to reduce the pressure on MSW landfills.

Major Components of the scheme:

- Promote Decentralized Green Waste Management through fiscal incentives.

- Training and awareness of all target groups w.r.t. management of different wastes and organizing workshops & seminars w.r.t. the Revised Waste Management Rules issued by MOEF & CC , Govt of India-2016

Achievements:-

(i)   Workshop on E- Waste Management for Bulk Consumers targeting Delhi Government Departments and Delhi Government Hospitals organized.

2.   Climate Change & Other Activities

Budget Allocation 2018-19   :   ₹ 10 Lakh

Aims and Objectives of the Scheme:

Promotion and facilitation of environment friendly projects for reduction in the emissions of Greenhouse Gases and addressing climate change related issues.

Major Components of the scheme:

- To prepare the State Action Plan for Combating Climate Change, involving all the Departments as per NAPCC format.

- Capacity building among the existing manpower for the purpose.

- Engaging experts / specialized consultants & other human resources (on contract basis) on climate change issues.

- Conducting various training programmes for all the stakeholders.

- Awareness creation for climate change issues

- Organizing National/ International Conference/Synopsis on the subject.

Promotion and facilitation of Environment friendly projects for reduction in the emissions of Greenhouse Gases, and addressing climate change related issues. Workshop / Seminar on climate change with concerned departments/local bodies/agencies to be conducted.

Achievement

- Draft Delhi State Action Plan on Climate Change (SAPCC) has been finalized on the lines of National Action Plan on Climate Change (NAPCC) and put up for Government approval.

- Draft SAPCC Delhi Report has also been submitted before Hon'ble National Green Tribunal.

3.   Strengthening of Technical set-up in the Department of Environment

Budget Allocation 2018-19   :   ₹ 20 Lakh

<u>Aims and Objectives of the Scheme:</u>

- To provide infrastructure facility, manpower etc. in the Department to handle the increasing workload on pollution issues with respect to coordinate pollution control measures undertaken by various Departments in NCT of Delhi to control pollution.

- Policy formulation for overall environmental protection in Delhi. To implement the Govt. policies and various schemes for conservation of environment and control of pollution.

- To cope up with various new environmental frontiers that has emerged in recent years.

- To implement the Govt. policies, Hon'ble Court directions and various schemes for conservation of Environment and control of pollution in Delhi.

4.   <u>Involvement of Weaker Sections of Society in improvement and up-gradation of the Environment</u>

Budget Allocation 2018-19	:	₹ 11 Lakh
General	:	₹ 10 Lakh
SCSP	:	₹ 1 Lakh

<u>Aims and Objectives of the Scheme are:</u>

This scheme will be implemented in association with schools, NGO's & RWA. This will include following points:

- To involve the weaker section population towards environment improvement programmes.

- To provide training as well as social security, hygienic facilities and safe waste handling to rag pickers etc.

Under this scheme, expenditure to be incurred on the items for safety equipments, fiscal incentives, and free distribution of environment related materials to weaker section etc.

5.   <u>Public Environmental Awareness and Other Activities</u>

Budget Allocation 2018-19	:	₹ 40 Lakh

<u>Aims and Objectives of the Scheme:</u>

To create public environmental awareness by educating public in general & different segments of the city such as school students, residential associations, women groups etc. through various means

- To carry out awareness campaigns namely "Greening Delhi", "Say Yes to Eco-Friendly Bags", "Save Yamuna", "Anti Fire Crackers", "Waste Minimization", "Play Holi with Safe and Naturals Colours" etc.

- Organizing environment related mass awareness programmes

- Organizing sponsoring and participation in environment related exhibition, Melas, workshops etc

- To enhance environmental awareness among public by using publicity media such as newspaper, outdoor, TV, theatre shows, radio mobile SMS, social media etc

- Observing various National and International Environment related Days such as World Environment Day

Activities to be undertaken under the scheme:

- Raising of environmental awareness level among the citizens of Delhi through various environmental campaigns by way of various publicity Medias.

- Organizing and sponsoring workshops/ exhibitions/seminars on various environmental issues and on various National and International Environment Days.

Achievements:

- Department of Environment conducted various public environment awareness campaigns for the general public of Delhi.
- Celebration of various important days i.e. Ozone Day, Earth Day etc.
- 06 No. of Conferences / Workshops conducted on environmental issues.
- Participation in Exhibitions/Melas etc.

6. Eco-Clubs in Schools and Colleges:

Budget Allocation 2018-19   :   ₹ 400 Lakh

Aims and Objectives of the Scheme:

To create environmental awareness among the school & college students for environmental improvement and to inculcate the culture of eco-friendliness and environmental conservation among them.

Activities to be undertaken under the scheme:

- Conduction of various Environment Campaigns involving various schools & Colleges.

- Appreciation awards to Best Eco-club schools and colleges.

- Various Competitions at State/ School / College level to be conducted including poster competition, quizzes, etc. and organizing Annual Eco-Meet and Vacation Programme for students.

Presently Environment Department, GNCTD provides grant to the Eco-Clubs of an annual amount of ₹ 20,000/- per school/ college under the Outlay scheme "Eco-Clubs in Schools/ Colleges". Upto the year 2011-12, yearly grant of ₹ 10,000/- was given to each eco-club in schools/ colleges which has been enhanced to ₹ 20,000/- p.a. from the year 2012-13. Also Additional grant of ₹ 2500/- is given to only schools from Ministry of Environment & Forest, GOI as NGC (National Green Corps). The scheme was started with 100 schools during 1998-99 and now more than 2000 Eco clubs are established in Delhi Govt. schools/ Aided/ Public/ Private schools, NDMC school, KV/JNV and colleges of Delhi. The schools having class XI onwards are enrolled as Eco-Clubs. The various activities of the Eco-Clubs basically about the Environment awareness and to preserve, conserve and protect the Environment etc.

Achievement 2017-18

About 1660 schools and colleges have been given a grant @ ₹ 20,000/- to each school/ college.

Targets 2018-19

- To increase the activities of environment awareness including construction of compost pits, tree census, biodiversity index in various schools and colleges, apart from inviting innovative ideas in environment protection through participation of children of school.
- Grant will be provided to 2000 Eco clubs in Delhi Govt. schools/ Aided/ Public/ Private schools, NDMC school, KV/JNV and colleges of Delhi.
- 6,00,000 number of students will be reached through Eco-clubs.
- 1.00 lakh saplings will be planted in schools through Eco-clubs.

7. Environment Data Generation, Survey, Research Project and Other Activities

Budget Allocation 2018-19 : ₹ 137 Lakh

Aims and Objectives of the Scheme

- To conduct need based environment surveys and data generation on continuous basis on Quantum of pollutants generated from sources such as industries, vehicles, thermal power stations and effect of hazardous, toxic waste, ambient air water sources (Surface & subsurface) and land.

- To update the environmental status through need-based surveys on various aspect of pollution, in order to assess the impact of pollution on human health and the overall environmental up gradation in Delhi.

Major Components

- Data creation in respect of Vehicular Pollution, Air Pollution, Water Pollution, Noise Pollution, Land Degradation and other anthropogenic source of pollution.

- Assessment of impact of Pollution on environment.

- Research & Development studies on various environmental issues related to Delhi.

Achievements

- "A Study of physico-chemical characteristics of smog in Delhi" by JNU completed and last installment of ₹ 1,02,237/- released.

- "Recycling of silt from storm water drains sludge from WTP/STP/CETP & Ash for waste to Energy Plant for building construction" awarded to CBRI Roorkee. second Installment to be released.

8. Assistance to NGO's in the Promotion Conservation & Preservation of Environment

Budget Allocation 2018-19	:	₹	22 Lakh
General	:	₹	20 Lakh
SCSP	:	₹	2 Lakh

Aims and Objectives of the Scheme:

- To promote & assist various non-governmental organizations in the conservation, preservation of environment and pollution control activities.

- To implement various programmes of environment department through NGO's.

Achievements

- Scruritinizing Committee meeting held on 04/05/2017 for consideration of proposals for grant-in-aid and 10 proposals were put up.

- Proposal cleared by Scruritinizing Committee and under submission for approval of Competent Authority.

- First installment of proposal by **"Creation of a Participatory Solid Waste Management Policy"** by **CHINTAN** released.

9. Science Technology Awareness Programme

Budget Allocation 2018-19   :   ₹ 10 Lakh

Aims and Objectives of the Scheme:

* To propagate science and technology issue among students.
* To create Scientific Temperament among the students.
* To conduct need based scientific survey and research.
* Involve youth on scientific projects.

Target

The objective of the scheme is to sensitize the students / public on various scientific issues. Also National Science Day on 28th February will be celebrated.

10. Delhi Parks and Gardens Society

Budget Allocation 2018-19   :   ₹ 500 Lakh
General   :   ₹ 450 Lakh
                 (₹ 30 Lakh for Capital Assets)
SCSP   :   ₹ 50 Lakh

Aims and Objectives of the Scheme:

* To maintain the parks and garden of Delhi under Delhi Government.
* To involve NGOs, Corporate in maintaining developing the parks of Delhi under Delhi Government.
* To involve NGOs, Corporate in maintaining developing the parks under PPP.

Achievements 2017-18

Financial Year	No. of RWAs/ NGOs	No. of Parks	Covering Area (in Acres)
2017-18	261	1164	370

Performance of DPGS during 2017-18

* During the financial year 2017-18, DPGS provided financial assistance for maintenance of parks and gardens to **261 RWAs/NGOs** with assistance amounting to ₹ **162.64 Lakhs** upto March, 2018 in **1164 parks** with an area of **370 acres.**
* DPGS is taking up greening projects in poorly maintained parks, semi vacant spaces and also in open spaces.

- The Society is motivating RWA's/NGO's in the greening activities, by organizing meetings, distribution of plants to RWAs' for plantation in parks, technical advices and coordinating with other agencies. During the period under reference 78305 plants raised & maintained in DPGS Nursery, and about 104568 plants were distributed to RWAs'/NGOs', greening agencies, corporation etc.

- DPGS is providing advice to other agencies in the greening activities. Thereby motivating greening by various agencies in Delhi.

- DPGS has a established Nursery from where plants are distributed free of cost to RWAs'/NGOs' and other agencies.

- CEO, DPGS being the nodal officer of all water bodies of Delhi, DPGS is monitoring eleven court cases of Water bodies at the various courts in Delhi. As a part of the formation of wetland regulatory authority, State biodiversity council/board, Ganga action committee are also being processed as per directions of the Hon'ble courts.

11.   Pollution Control and Environment Management

Budget Allocation 2018-19   :   ₹ 10 Lakh

Aims and Objectives of the Scheme:

- To promote monitoring and control of the level of air, water and noise pollution.
- To promote emission less and environment friendly technologies.
- To rejuvenate the River Yamuna and local water bodies.
- To organize mass awareness campaigns.

Major Components of the scheme:

- Promoting adoption of emission less and environment friendly technologies through provision of fiscal incentives.
- Policy on Groundwater Regulation and Management in all districts of Delhi
- Formulation of policies towards prevention and control of air, water and noise pollution under existing Acts and Rules.
- Organization of workshop / conference / exhibition for spreading awareness on pollution control and environmental management among masses
- Introducing the concept of zero wastewater discharge and promote decentralized wastewater treatment system.

Achievements

- Co-ordination for implementation of the Comprehensive Action Plan & Graded Response Action Plan notified by MOEF & CC, Govt of India is being undertaken.

- Conducted the three workshops on "Prohibition on open burning for mass awareness of Schools/Colleges and RWAs in areas under North MCD and

South MCD,and East MCD jurisdiction on 14/06/2017,14/09/2017 and 01/02/2018 respectively.

- Regular review meetings regarding Air Pollution Control convened under Hon'ble L.G. Delhi and Hon'ble Minister (Environment), Govt of NCT of Delhi.

- SOP prepared for disposal of dust collected by mechanical Sweepers same is to be followed by Local bodies i.e. PWD & DDA.

- State Level Committee meetings under Chief Secretary, Delhi convened for compliance of Hon'ble NGT order compliance in O.A.21/2014.

- Policy made regarding setting up of Micro Breweries in Restaurant/Hotel/Club etc. in Delhi and matter sent to DDA for amendment in MPD-2021. Policy regarding stainless steel picking industries under submission.

- Environment Marshals deployed for observing violation of Environmental Law on ground in Delhi.

- Urgent steps taken for controlling emergent Air Pollution condition during November-2017.

- Anti smog gun trial conducted and other such proposals under examination.

12. GIA to Mahatma Gandhi Institute of Combating Climate Change (MGICCC)

    Budget Allocation 2018-19   :   ₹ 530 Lakh

Objective:

    To impart training and create awareness to people for combating climate change, sources of renewable energy and community development.

Achievement 2017-18:

i)   50 number of Community Participation Programme for school children,villagers organized.
ii)   24 training Programme for Teachers/ Professors & college/ university & ITIs Students and RWA's.
iii)   2 number of two days awareness program/workshop on climate change organized.
iv)   About 3000 number of people trained in these training programmes/ workshops on various issues related to combating climate change

Targets 2018-19:

i)   55 number of Community Participation Programme for school children, villagers will be organized.

ii)   26 training Programme/workshop to be organized for Teachers/ Professors & college/ university & ITIs Students and RWA's.

iii) 2 number of awareness program/workshop on climate change to be organized.

iv) About 4000 number of people to be trained in these training programmes/workshops on various issues related to combating climate change.

During 2017-18, ₹ 380 lakh had released to MGICCC in three installments.

DEPARTMENT OF FORESTS & WILDLIFE

In March 1987, a separate Department of Forests & Wildlife and Environment was created from the Control of Development Department. The Department of Forests & Wildlife, Govt. of NCT of Delhi has been mandated with the responsibility of Protection, Development and Preservation of Forests in Delhi. It is also responsible for Protection and Conservation of Wildlife Habitats, Enforcement of the Indian Forest Act 1927, the Wildlife (Protection) Act 1972, and Forests (Conservation) Act 1980, Preservation of Trees Act 1994 and Rules made there under and a listing of people's participation in making Delhi Green.

There are three Divisions in Forests Department namely North Forest Division, South Forest Division and West Forest Division. The Forests Department has a mission to make all endeavors to increase the forest and tree cover in NCT of Delhi as envisaged in the National Forests Policy, 1988 through government, non-government and other land owning agencies in Delhi and protection of forests, wildlife including their habitats and preservation of trees.

The National Forest Policy, 1988 provides that a minimum of 1/3rd of the total land area of the country should be under forest or tree cover. Taking the above in view, the Govt. of NCT of Delhi is making all endeavors to meet the national goal as set by the Central Govt. and is constantly adding to the green cover of the State which is reflected in the change in forest and tree cover given as follows:

FOREST AND TREE COVER AREA OF DELHI 1993-2015

(Sq. Km)

S. No.	Year	Forest and Tree Cover	Absolute Increase In Area	% of Total Area
1.	1993	22	--	1.48
2.	1995	26	4	1.75
3.	1997	26	--	1.75
4.	1999	88	62	5.93
5.	2001	151	63	10.2
6.	2003	268	117	18.07
7.	2005	283	15	19.09
8.	2009	299.58	16.58	20.20
9.	2011	296.20	-3.38	19.97
10.	2013	297.81	1.61	20.08
11.	2015	299.77	1.96	20.22
12.	2017	305.41	5.64	20.59

Source: State Forest Report, 2017

Government of NCT of Delhi has taken initiatives to increase forests and tree cover area to keep the environment green in Delhi. As a result of the initiatives taken by Government of NCT of Delhi, forest and tree cover area has been increasing steadily since 1993. The forest and tree cover area increased to 305.41 sq km in 2017 increasing thereby the share of forests in the total area to 20.59 per cent. The growth of forests and tree cover has particularly been monumental post 1999. Of the total 305.41 sq km of forest area in NCT of Delhi, nearly 279 sq km has been added during the period 1997 to 2017.

There are following schemes implemented by the Department of Forest & Wildlife

1. Development of Forest including Consolidations

Budget Allocation 2018-19	:	₹ 1650 Lakh
Revenue	:	₹ 200 Lakh
Capital	:	₹ 1450 Lakh

Aims and Objectives of the Scheme:

- As per the National Forests Policy 1988, 33% of the geographical area should be under Forests cover. The stipulated extent of forest cover is required to maintain the environmental equilibrium in the country. Besides, forest cover has been a proven sink for various kinds of pollutants. The NCT of Delhi has only 20.22% of its geographical area under forest and tree cover which has to be further augmented to achieve more area under greenery in Delhi.

- The forest land in Delhi has been notified in year 1994 under section 4 of the Indian Forest Act, 1927. The final notification is to be issued under section 20 of the Indian Forests Act, 1927 and other areas handed over to the Forests Department needs to be protected.

- Afforestation, enrichment and maintenance of existing forest areas under the management of forest department

Activities to be undertaken under the scheme:

- Celebration of forest festivals like World Forestry day, Environment Day, Ceremonial Plantation etc.
- Enhancement of stock of sapling in 14 forests nurseries
- Tree plantation drive during Van Mahotsav from July to September with people's participation and public representatives
- Construction of boundary wall

Achievement 2017-18:

- About 6.00 lakh number of saplings available in departmental nurseries for plantation.

- About 45,000 saplings were planted outside sanctuary.

- About 3.50 lakh seedlings distributed free of cost.

- 45 number of plantation drives organized on World Environment Day, World Forestry Day, Wildlife week etc.

- Total 10 Km length of boundary wall constructed/ repaired.

Targets 2018-19:

- Development of Forests through plantation and saplings will be distributed free of cost to encourage plantation on vacant lands.

- Maintenance and development of existing Nurseries, Existing City Forests, development of new city forests.

- 8.00 lakh number of Saplings in nurseries will be raised for plantation

- Consolidation of forest land & mapping, development of water bodies in forest areas, construction of Boundary Wall & providing fencing of forest area, construction of Watch Tower for protection

- Awareness events to be organized.

- As per direction of Hon'ble High Court in WPC -1346 and NGT in OA-58/2013 for consolidation of the ridge forest land through survey and demarcation of Southern Ridge Area and construction of boundary wall around forest area.

2. **Development of Wildlife Sanctuary & Strengthening of Wildlife Section**

Budget Allocation 2018-19 : ₹ 1850 Lakh
Revenue : ₹ 250 Lakh
Capital : ₹ 1600 Lakh

Aims and Objectives of the Scheme:

- Development of infrastructure for further protection and development of wildlife including their habitat in Delhi as also conservation of biodiversity in accordance with Wildlife Protection Act 1972. An Area of 1751 Ha in Asola-Bhatti has been notified under Wildlife Protection Act 1972.

- Intervention in management for improvement of soil/ water regime, biodiversity through afforestation of species native to ridge etc. in Asola Bhatti Wildlife Sanctuary besides creation of awareness among masses.

- Revision of Management Outlay of Asola Bhatti Wildlife Sanctuary in consultation with Wildlife Institute of India, Dehradun along with study on release of monkeys to the sanctuary and impact there on flora and fauna of the sanctuary.

- Enforcement of provisions of the Wildlife (Protection) Act, 1972 in NCT of Delhi.

Activities to be undertaken under the scheme:

- Environment awareness creation through Conservation Education Centre (CEC) in collaboration with BNHS to increase footfall in sanctuary.

- Creation and maintenance of butterfly park in sanctuary and city forests

- Plantation of 2 Lakh saplings by 132 Eco Task Force (ETF)

- Wildlife rescue centre at Rajokri for rescue of injured birds

- Development of ecotourism in consultation with Wildlife Institute of India (WII), Dehradun

- Improvement of wildlife enclosures and bridges in Asola Bhatti Sanctuary

Achievement 2017-18:

- Protection, Conservation and Plantation of 50,000 saplings by ETF

- 3 number of sites developed for eco-tourism and butterfly parks.

- 75 number of educational institutions and about 7200 number of students covered for awareness through Conservation Education Centre (CEC).

Targets 2018-19:

- **Eco huts** will be constructed for study of Wildlife behavior during nights.

- **A Bird Rescue Center** is to be developed by the department at Rajokri with interpretation center, to provide wildlife and its habitat awareness schedule to young children.

- Eco restoration of habitat through Eco-Task Force in the Sanctuary areas by plantation and maintenance of old plantation, fencing, repair and construction/ reconstruction of boundary wall, strengthening and augmentation of interpretation center at Asola Wildlife Sanctuary, training of officials, salary and project cost of 132 Eco Task Force and Conservation Education Centre of BNHS at Tughlakabad duly approved by cabinet.

- 80 number of educational institutions to be covered for awareness through Conservation Education Centre (CEC)

- 5 number of sites will be developed for eco tourism/ butterfly parks.

- Protection, Conservation and Plantation of 2.0 lakh saplings by ETF

3.   Creation & Maintenance of Urban Forestry

Budget Allocation 2018-19   :   ₹ 50 Lakh

Aims and Objectives of the Scheme:

The scheme aims at taking all measures necessary for maintenance of existing greens and their improvement through soliciting private /govt. participation for making city livable place.

Activities to be undertaken under the scheme:

- Under this scheme, free distribution of saplings, raising of urban plantation road side/ roundabout & maintenance, organization of melas, celebration of Van Mahotsav, Environment Day, World Ozone Day, Earth Day, World Forestry Day, Bhagidari, Health Melas, free distribution of seedlings at various location and other ceremonial functions, Development of Nature Trail & Maintenance, creation of visitor's amenities, Management of Van Vigyan Kendra at Hauz Rani.

- Development of jogging tracks , electrification, security, cleanliness, sanitary and portable water facilities

- Medicinal plant pockets, eco-huts, water bodies, interpretation centres, butterfly pockets and plantation of nectar plants, landscaping, strengthening of boundaries etc. in city forests

Achievement 2017-18:

- 6 number of city forests at Mitraon, Nasirpur, Garhi Mandu, Taj Enclave, Shastri Park, Mukhmelpur were developed/ improved to increase the awareness for green area among local residents as large numbers of people residing in the area go to these forests for recreation in clean and green environment.

- 6 number of city forest committees constituted.

- 20 number of registered RWAs benefitted from created city forests and about 8000 daily visitors visit in urban forests.

Targets 2018-19:

- **Creation and maintenance of Urban Forest:** Development of City Forests with modern amenities to encourage eco tourism and awareness creation for environment/ modern nursery establishment etc. All these forests will have solar energy lighting system on jogging/pedestrian tracks. These city forests will be developed on zero based concept through green composting bio-digesters for public toilets etc.

- 6 number of urban forests with jogging tracks and portable water facility will be developed

4. Monitoring of Greening Activities in Delhi

Budget Allocation 2018-19 : ₹ 145 Lakh

Aims and Objectives of the Scheme:

- The scheme aims at increasing the forest and tree cover including protection of existing forest and taking measures for improvement of the soil/moisture regime, quality as green lung for the metro.

- Enforcement of IFA, 1927 and DPTA, 1994 and Wildlife Protection Act, 1972.

- The scheme also aims at monitoring / evaluation of the gains made in greening and other activities through independent agency.

Activities to be undertaken under the scheme:

- Replacement of Keekar (Vilayati babool) by indigenous saplings in collaboration FRI Dehradun

- Evaluation of compensatory plantation done by user agency in DPTA, 1994

- Third party evaluation of plantation activities of the department in the last 3 years

Achievement 2017-18:

- 127 number of plantation sites were evaluated.

- Long term plan for replacement of vilyati kikkar in central ridge area had been launched.

Targets 2018-19:

- Replacement of Keekar (Vilayati babool) by indigenous saplings in Central Ridge area.

- 20 number of new plantation sites to be evaluated

5. Intensification of Forest Management (CSS)

Budget Allocation 2018-19 : ₹ 5 Lakh

Forest Protection Division; Ministry of Environment, Forest and Climate Change; GOI gave its administrative approval of the work programme during FY 2016-17 of GNCTD for strengthening forest protection measures under CSS 'Intensification of Forest Management'. NIL expenditure has been incurred during 2017-18.

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Delhi Metro e-Network (LAN/WAN)

Budget Allocation 2018-19 : ₹ 10 Lakh

All the major departments have been connected through Leased Line and Tri-B DG plan of MTNL.

- **Local Area network (LAN)**-Around **1000 computer** systems have been brought on the LAN in the Delhi Secretariat. On the existing LAN, Departments located at Secretariat use various centralized applications like file monitoring system, letter monitoring system, Bio-metric based attendance system, Pay package, e-Office etc.

- A server room has also been functional with leased line connecting the Secretariat server to the NIC Headquarter to access the internet. Wi-Fi facility to the departmental users and guests visiting Ministers/ officers has been provided.

- **Delhi State Wide Area Network (DSWAN):-.** 101 locations are connected to Delhi Secretariat through 158 links of 100/34/10/4/2 Mbps links up to 2016-17. Many other departments are connected through Tri-B DG plan.

2. Training of Employees of Delhi Government in use of I.T. Hardware and Software

Budget Allocation 2018-19 : ₹ 15 Lakh

The Information Technology Department initiated training programme for the employees from dated 22/4/2003.

The promotion of Information and communication technology requires continuous training for enhancing skills of employees in the emerging technology areas. It includes providing basic computer training for non-technical employees and specialized trainings to IT Cadre officials of Govt. of Delhi. It is therefore necessary that the Government employees including employees of Government of Delhi, Corporations and Autonomous Bodies be trained regularly on usage of tools for day-to-day operation.

Department proposes the following:-

1. Training in Basic e-Governance, Office productivity tools and computer fundamentals.

2. Sponsoring of IT Cadre officers to specialized institutions providing training in Data Base Management System, Network Security, Application Software Development Tools etc.

3. e- Governance Projects and Process Re-engineering Support

Budget Allocation 2018-19 : ₹ 15 Lakh

e-SLA: The e-SLA was implemented w. e .f. 15th Sept'2011. The objective of e-SLA is to provide the various Govt. Services to Citizens of Delhi in a time bound manner. Department has notified 361 services under e-SLA belonging to 37 Departments. Under e-SLA citizen can track the status of their application. Department of Information Technology is in process of amendment of "Delhi-Right of Citizen to Time Bound Delivery of Services-2011. Total 18.64 lakh application received under e-SLA during 2017-18.

E-Procurement: The scheme was implemented on February, 2008 and DGS&D was the implementing agency. From May 2011 the project is being handled by DIT, GNCTD through Delhi e Governance Society and NIC. The project was started to improve the then existing tendering process in various department of GNCT of Delhi and to bring transparency and efficiency in the tendering process. The main objectives are to reduce tendering process costs and overhead, better management of tendering process, increase transparency of decision making, reduce potential for disputes and increase vendor participation. Around '28472 'tenders valuing ₹ 1412845.61 Lakh finalized   and- 3959 vendors registered till March'2017**.**

e-Office: Council of Ministers, GNCTD has approved the implementation of e-office in all the Department / Local/ Autonomous bodies of GNCTD. In order to bring transparency, accountability, to increase efficiency and save time and reduce the use of paper/ stationery. e-Office has been launched in various departments of GNCTD

4. **<u>Development and Maintenance of Delhi Government Portal (Facility Management for Delhi Secretariat & Maintenance of Delhi Govt. Websites)</u>**

Budget Allocation 2018-19   :   ₹ 150 Lakh

(a)   (i)   **Content Management Systems (CMS)**:

Content Management System is information Integration on a single unified web site of all Departments. It gives information regarding various services provided by the centralized web site apart from having the uniform look and feel of all the websites. The scheme was started in August 2008.

(ii) **State Data Centre**: -

Delhi Government has designated NICSI Data Centre as State Data Centre. State Data Centre involves collocation charges, AMC charges of servers, SAN and takes TAPE back-up charges, hiring charges of virtual machines on GOI clouds i.e. Meghraj.

(b)   **Security Audit**:

Web/ mobile applications, portals are always subject to security risks and attacks. Department proposes to get security audited their Web Portal and applications from Competent agencies and subsequently take necessary steps to secure the portal from hacking, defacing and other security threats. To address the cyber security concern, DeGS under Department of IT, has empanelled an agency to conduct security audit. The security agency has prepared State Cyber Security plan to reduce/ prevent cyber security threats.

7. **<u>Readiness for implementing various Government of India's ICT related bill /Framework Standard /TETRA</u>**

Budget Allocation 2018-19   :   ₹ 429 Lakh

Tetra Communication System:

Government of NCT of Delhi has adopted TETRA Network during the **CWG-2010**. Delhi police, Divisional Commissioner Office, DTC, Health and Family Welfare, CATS, MCD, Directorate of Home Guards and Civil Defense, Trade & Taxes and Election office are using Tetra for the legacy period w.e.f. 1st March, 2012. Department will keep using existing TETRA network. During the year 2017-18, various departments in GNCTD Delhi including Delhi police used total 4796 Tetra sets.

The proposed outlay will be utilized for hiring of consultants, license fee, rent of Tetra sets and expenditure on authentication framework.

8.   **IT Component for Samajik Suvidha Sangam**

Budget Allocation 2018-19   :   ₹ 1 Lakh

Mission Convergence (Samajik Suvidha Sangam), Government of NCT of Delhi (GNCTD) has been implementing the system integration project for developing robust web based application and centralized database encompassing demographic details of households living in the slums.

Presently this scheme has been transferred to Revenue Department. A provision of only ₹ 1 lakh has been kept under the head as token amount for payment of the pending bills for the amount spent under the scheme.

9.   **Preparation of Geo Spatial Data Base for Delhi**

 Budget Allocation 2018-19   :   ₹ 80 Lakh

The Project was aimed at creating geospatial data of Delhi, enabling better planning / implementation of public amenities (Roads, sewage, water supply, land records) and for checking the encroachments. The Project was started during the year 2004-05. This Project has been transferred to a Govt. owned company Geo Spatial Delhi Ltd w.e.f. 1-07-2012. All the line departments have to update their data.
The Project has been benefitting the departments in preparation of their planning and to provide updated information to public in respect of civil, electrical work done in their locality. According to the provisions of Delhi Geo Spatial Infrastructure (Management, Control, Administration, Security, and safety) Rules 2011, Geo spatial Delhi Limited has to provide services to line department under Delhi Spatial Data Infrastructure (DSSDI) Project. GSDL has to perform following tasks on behalf of Government of Delhi.

- To Provide navigation and other information through internet protocol camera, Portal or any other photographic or other medium for the facilitation of various organizations including Police, Fire Brigade, Municipal authority, Civil Administration Disaster Management Authority etc, in the event of any natural or manmade disaster in Delhi.

- To establish, manage and maintain helpline services for the public to seek and or provide information pertaining to any development activity including excavation work in any area or locality within the territory of the Delhi along with similar information on the web-portal with facility to update the information in consonance with the periodical

- To do development work from time to time.

- To provide any other services based upon the applications of the Geo Spatial Data as deemed necessary by the Government.

Target 2018-19 :

DIT proposes to procure two maps (satellite images) for GSDL