

SCIENCE TECHNOLOGY & ENVIRONMENT

The Department of Environment has been assigned responsibility of improving the overall Environmental Quality in Delhi. The Department is actively engaged in overall environmental assessment, monitoring, protection and awareness rising among the people of Delhi. Multi-dimensional approach is being adopted by the Department for promotion, conservation and preservation of Environment. 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.

Revised Outlay & Expenditure of Annual Plan 2011-12, Approved outlay & Revised outlay of Annual plan 2012-13 and proposed outlay for annual plan 2013-14 for Science, Technology & Environment Sector are as under:-

(₹in crore)

Department / Agency	Annual Plan 2011-12		Annual Plan 2012-13		Annual Plan 2013-14
	Revised Outlay	Expenditure	Approved Outlay	Revised Outlay	
Environment Department	11.75	7.91	19.00	14.00	18.00
Forest Department	26.00	25.64	24.00	34.80	26.00
IT Department	39.88	157.61	38.00	43.00	17.00
Total	93.77	277.91	81.00	91.80	61.00

1. Integrated Waste Management and other related activities

Plan Outlay

Annual Plan 2013-14	:	₹ 120 lakh
Revenue	:	₹ 20 lakh
Capital	:	₹ 100 lakh

Aims and Objectives of the Scheme:

The policy intervention and land identification for setting up of disposal facility for management of different kinds of waste namely Hazardous, Bio-Medical, Electronic, Plastic, Fly ash, Construction & Demolition waste and Mercury waste etc. as per respective rules and regulations.

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 Municipal Solid Waste (MSW) Landfills.

Major Components of the scheme:

1. Site identification for establishment of waste disposal facilities
2. Possession of Land for the hazardous waste Integrated Waste Disposal Facility
3. Development of site and construction of boundary wall etc
4. Hiring of consultancy services for EIA & for the development of the facilities for different kinds of waste disposal
5. Promote Decentralized Green Waste Management through fiscal incentives
6. Introduction, co-ordination of Buy Back Policy For recyclable Bottles/ containers
7. Training and awareness programme on management of different wastes to all target groups

Physical Targets:

1. To take measure for safety disposal of different kinds of wastes
2. To introduce cleaner extracting / recycling technology for different type of wastes
3. To get land/site for disposal of hazardous waste, integrated waste
4. To get necessary EIA Study done for the identification of site
5. To construct boundary wall and develop at the identified site
6. To adopt new technologies in the disposal of different kinds of wastes namely, hazardous waste, Plastic Waste, Mercury Waste, Solid Waste, Electronic Waste and Bio-Medical Waste
7. To provide training to personnel for safe handling & proper disposal of E-Waste
8. To generate capacity building for management of different kinds of waste
9. Fiscal incentives for decentralized waste management
10. Policy perception for following:
 - a.) Introduce Innovative Business Plan to collect recyclable waste from community bin
 - b.) Introduce Off site real time (OSRT) technology for monitoring cleaning of bins
 - c.) In-built weighing and GPS monitoring system in garbage trucks
 - d.) Incentive wise production of building material out of Fly Ash/ construction & demolition waste
11. Industrial areas to be developed as Eco town
12. Participatory Solid Waste Management Policy for Delhi Preventing Pollution and Safeguarding the Environment
13. Chintan-GIZ –MSW Survey project
14. Other Projects regarding Waste Management are being proposed to be taken up

Achievements of the scheme

Matter regarding allocation of land for setting up of TSDF at Narela- Bawana site for disposal of Hazardous waste is under process with North Delhi Municipal corporation

2. Climate Change & Other Activities

Plan Outlay

Annual Plan 2013-14 : ₹ 20 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:

1. To prepare the State Action Plan for Combating Climate Change involving all the departments as per NAPCC format
2. Capacity building among the existing manpower for the purpose
3. Engaging experts / specialized consultants (on contract basis) as the focal points to coordinate CDM projects for earning carbon credits

4. Conducting various training programmes for all the stakeholders
5. National / International visit to understand / evaluate CDM project implementation better.
6. Providing required resources in terms of Human Resource (on contract basis) & physical resources in terms of office accessories etc
7. Awareness creation for clean development mechanisms, maximum use of conventional source of energy and there by GHG reduction
8. Organizing National/ International Conference/Synopsis on the subject

Activities to be undertaken under the scheme:

1. The Government Departments will be sensitized in this regard so as to adopt various GHG emission reduction measures in all their developmental activities.
2. The departments will be encouraged to adopt projects in the CDM mode wherever possible and will be mandated to adopt the GHG emission reduction measures in their project activity.
3. Hiring of Consultancy service for taking up CDM projects.
4. Policy prescription for promoting adoption of CDM technologies.

Achievement

1. Delhi State Action Plan on Climate Change (SAPCC) beyond 2012 is being prepared on the lines of National Action Plan on Climate Change (NAPCC)

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

Plan Outlay

Annual Plan 2013-14 : ₹ 20 Lakh

Aims and Objectives of the Scheme:

1. 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
2. Policy formulation for overall environmental protection in Delhi. To implement the Govt. policies and various schemes for conservation of environment and control of pollution
3. To cope up with various new environmental frontiers that has emerged in recent years
4. To implement the Govt. policies, Hon'ble Court directions and various schemes for conservation of Environment and control of pollution in Delhi

4. Involvement of Weaker Sections of Society in improvement and up-gradation of the Environment

Plan Outlay

Annual Plan 2013-14	:	₹ 15 Lakh
General	:	₹ 13.50 Lakh
SCSP	:	₹ 1.50 Lakh

Aims and Objectives of the Scheme are:

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

1. To involve the weaker section population towards environment improvement programmes
2. To provide training as well as social security, hygienic facilities and safe waste handling to rag pickers etc

Activities to be undertaken under the scheme:

1. Awareness among weaker section of the society towards environment
2. Promoting weaker section involvement towards betterment of environment through fiscal incentives
3. Imparting training to schools, RWAs, NGOs

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

5. Energy Efficiency & Energy Conservation

Plan Outlay

Annual Plan 2013-14	:	₹ 100 Lakh
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Aims and Objectives of the Scheme:

- To coordinate, regulate and enforce the provisions of the Energy Conservation Act 2001 as State Designated Agency
- To undertake various activities to promote energy efficiency and energy conservation with different stakeholders, State Government Departments dealing with energy, industry, planning, regulators, consumer affairs, municipal body etc.
- To take all measure to create awareness and disseminate information for efficient use of energy and its conservation through electronic and print media and meet
- To provide training to staff/users/specialist in efficient use of energy resources and its conservation

- To prepare a State and Sectoral energy data base and provide feedback to designate consumers
- Launch and maintain state specific website addressing the voluntary and mandatory provisions of Energy Conservation Act

The Energy Efficiency and Renewal Energy Management Centre set up under Delhi Transco Limited; Department of Power was transferred to Department of Environment, GNCTD in the year 2008 for implementing Energy Efficiency and Energy Conservation scheme. Under this scheme, lump sum incentive/rebate of ₹ 6,000/- has been provided to each domestic consumer only for installation of the Solar Water Heating System from the approved and authorized manufactured/dealers either by way of availing loan from approved banks/financial institutions of Govt. of India or from its own finance.

The Cabinet vide its decision no. 1309 dated 20.11.2007, extended the incentive of ₹6,000/- per unit of 100 liter per day (LPD) to non commercial sector institutions up to maximum of 1000 liter per day and maximum incentive up to ₹ 60,000/- on the condition that the incentive would be released directly to the energy saving company installing the system and arranging to maintain it for five year as per commercial terms to be decided by the parties certified by third party inspection conducted by Energy Efficiency and Renewal Energy Management Centre. The incentive of the scheme beyond March, 2013 will depend on review of the scheme.

Ministry of New and Renewal Energy, GOI has also introduced subsidy for solar water heaters @ ₹ 3300/- sq. mtr. Collector area for flat plat collector system and ₹ 3,000/- per sq. mtr. collector area for evacuated tube collector system.

The Scheme has been extended for promotion of Solar Water Heating System through rebate/incentive for Domestic Household consumer/non-commercial institutions like Housing Societies, NGO, Hostel etc. from the year 2011-12 to 2013-14 with the same amount and same condition of release.

Major Components of the scheme:

1. Promotion of ECBC through steps for suitable amendments as per local climatic conditions for adoption and implementation in the State of Delhi
2. Developments of Standards and Labeling
3. Facilitate regular check testing for star rated appliances
4. Promotion of Energy Efficient equipments and appliances
5. Formulation of policies for mandatory adoption of energy conservation measures in new buildings / retrofitment of existing buildings.
6. Felicitation of units / rating of building based on energy conservation
7. Spreading awareness among masses through workshops / conferences / exhibitions / competitions etc.
8. Promotion of energy efficient technologies through fiscal incentives
9. Energy Auditing of various units

Activities to be undertaken under the scheme:

1. Mandatory adoption of ECBC Code in Conjunction with Green Building Code
2. Retrofitting of 100 Government buildings.
3. Introducing Energy Saving and other Measures with Awareness campaigns
4. Introducing Demand side management in buildings/Industries to reduce electricity demand
5. Extending GREEN BUILDING CODE for Government Buildings to facilitate efficient buildings
6. Publicize innovative approaches
7. Mandatory energy audits for all load above 100 KW
8. Initiate benchmarking

Achievements

During Calendar Year 2012, around 1.00 lakh Litres Per Day (LPD) Capacity Systems have been installed saving around 15 lakh units of electricity per annum.

Delhi Electricity Regulatory Commission (DERC) has regulated Renewable Purchase Obligations (RPO) and Renewable Energy Certificate framework implementation in the NCT of Delhi. Energy Efficiency & Renewable Energy Management Centre (EE&REMC) has been designated as the "State Agency" by DERC for Accreditation & recommending the Renewable Energy projects for registration under Renewable Energy Certificate (REC) framework.

Organized Rajiv Gandhi Akshay Urja Diwas Renewable Energy Fair to promote for use of Renewable Energy Devices/Systems and Energy efficient LED bulbs

Physical Target

1. To coordinate, regulate and enforce the provisions of the Energy Conservation Act 2001 as State Designated Agency
2. To undertake various activities to promote energy efficiency and energy conservation with different stake holders, State Government Departments dealing with energy, industry, planning, regulators, consumer affairs, municipal bodies etc
3. To take all measures to create awareness and disseminate information for efficient use of energy and its conservation through electronic and print media and meetings
4. To provide training to staff/users/specialist in efficient use of energy resources and its conservation.
5. To prepare a State and Sectoral energy database and provide feedback to designate consumers
6. Launch and maintain state specific website addressing the voluntary and mandatory provisions of EC Act

6. Renewable Energy

Plan Outlay

Annual Plan 2013-14 : ₹ 500 Lakh

Aims and Objectives of the Scheme:

1. Formulate policies and programmes for promotion, development & implementation of renewable and alternate energy devices and technologies
2. Facilitate Information dissemination & public awareness through trainings, publications, exhibitions, seminars, conferences etc
3. Integrate policies and program of renewable energy technologies with State Level Action Plan for Climate Agenda so as to leverage CDM benefits and also orient towards development of a Carbon Neutral City
4. Promote Research, design, development, demonstration, commercialization and deployment of new and renewable energy systems/ devices for transportation, portable and stationary applications in rural, urban, industrial and commercial sectors
5. Create trained manpower and skill development through capacity building program, education training etc
6. Build a Knowledge platform with a database for various renewable energy technologies and their feed back through collection, compilation and collation of data
7. To implement RPO & REC programme as a State Agency of DERC

Major Components of the scheme:

1. Formulation of Solar Power Policy
2. Promotion of adoption of renewable energy sources through provision of fiscal incentives
3. Spreading awareness among masses through workshops / conferences / exhibitions / competitions etc

Activities to be undertaken under the scheme:

1. Proposal for installation of Solar Water Heating and lighting system
2. Demonstration Projects For Grid/Small Off Grid Solar PV Systems (KV)
3. Proposals for Waste to Energy plants
4. Awareness Generation Through Renewable Energy Fairs

Achievement

1. Tender for SPV Power Plant of 100KWp at Vikas Bhavan-II has been floated
2. Approval of GAD is awaited for SPV Plant of 30KWp at Delhi Secretariat Building.
3. SPV Power Plant of 335KWp approved and being executed through DISCOMS, BYPL and TPDDL.
4. Process has been initiated for Installation of 30KWp SPV Power Plant at L.G. Office, Raj Bhawan.
5. Process has been initiated for Installation of 140 KWp SPV Power Plant at Hospital and Schools.

7. Public Environmental Awareness and Other Activities

Plan Outlay

Annual Plan 2013-14 : ₹ 300 Lakh

Aims and Objectives of the Scheme are:

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

1. 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 Natural Colours" etc
2. Organizing environment related mass awareness programmes
3. Organizing sponsoring and participation in environment related exhibition, Melas, workshops etc
4. To enhance environmental awareness among public by using publicity media such as newspaper, outdoor, TV, theatre shows, radio mobile SMS, social media etc
5. Observing various National and International Environment related Days such as World Environment Day

Activities to be undertaken under the scheme:

1. Raising of environmental awareness level among the citizens of Delhi through various environmental campaigns by way of various publicity medias
2. Organizing and sponsoring workshops/ exhibitions/seminars on various environmental issues and on various National and International Environment Days

Achievement

1. Department of Environment conducted various public environment awareness campaigns for the general public of Delhi.
2. No. of Conferences and Workshops Conducted- 6.

Items of Expenditure

Environmental awareness materials such as calendars, posters, brochures, pamphlets for distribution

8. Setting up Eco-Clubs in Schools and Colleges

Plan Outlay

Annual Plan 2013-14 : ₹ 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:

1. Conduction of various Environment Campaigns involving various schools & Colleges
2. Appreciation awards to Best Eco-club schools and colleges
3. 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

Under this scheme upto 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. In addition to this, Ministry of Environment and Forest, Govt. of India is also provided additional grant of ₹2500/- to each eco-clubs for setting/operation in schools/colleges.

Achievement

The process of releasing of grant to 2000 Eco-clubs has been undertaken. Grant to 1500 schools & colleges has been released.

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

Plan Outlay

Annual Plan 2013-14 : ₹ 30 Lakh

Aims and Objectives of the Scheme:

1. 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
2. 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

1. Data creation in respect of Vehicular Pollution, Air Pollution, Water Pollution, Noise Pollution, Land Degradation and other anthropogenic source of pollution
2. Assessment of impact of Pollution on environment
3. Research & Development studies on various environmental issues related to Delhi

Achievement

- i) "Quantification of Mitigation Interventions of Delhi City as a Whole" by ICLEI completed during 2012-13
- ii) "A Study of physico-chemical characteristics of smog in Delhi" by JNU completed during 2012-13
- iii) "Comprehensive study on Air Pollution and Green House Gases (GHGs) in Delhi" by IIT Kanpur has been approved during 2012-13
- iv) A Study of the Urban Heat Island Formation and its Relationship with Aerosols in Delhi has been completed during 2012-13
- (v) Development of a Pilot Project of small capacity bio-diesel reactors for waste oil received from restaurants / hotels / Industry" by DTU.

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

Plan Outlay

Annual Plan 2013-14	:	₹ 40 Lakh
General	:	₹ 36 Lakh
SCSP	:	₹ 4 Lakh

Aims and Objectives of the Scheme:

1. To promote & assist various non-governmental organizations in the conservation, preservation of environment and pollution control activities
2. To implement various programmes of environment department through NGO's

11. Science Technology Awareness Programme (₹ 25.00 lakh)

Plan Outlay

Annual Plan 2013-14	:	₹ 25 Lakh
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Aims and Objectives of the Scheme:

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

Achievement

GLOBE Teachers Training workshop organized and trainees 50 teachers.

Target

The objective of the scheme is to sensitize the students / public on various scientific issues. Under the Scheme, a programme of training Eco-Club teachers on GLOBE (Global Learning and Observations to Benefit the Environment). A target of 150 teachers will be trained under this.

12. Delhi Parks and Gardens Society

Plan Outlay

Annual Plan 2013-14	:	₹ 200 Lakh
General	:	₹ 180 Lakh
SCSP	:	₹ 20 Lakh

Aims & Objective

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

13. Pollution Control and Environment Management

Plan Outlay

Annual Plan 2013-14	:	₹ 30 Lakh
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Aims and Objectives

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

Major Components of the scheme:

1. Initiative for Setting up of ambient air, noise and water quality monitoring stations and mobile vans.
2. Setting up of stringent emission norms for controlling levels of critical pollutants in environment.
3. Policy prescription for Reduced Vehicular Dependency through Restraint Measures
4. Promotion of City-wide Safe Cycling Network development
5. Promotion of public transport /MRTS
6. Promoting adoption of emission less and environment friendly technologies through provision of fiscal incentives.
7. Levying of fee on sale of diesel in the city and creation of Air Ambience Fund to promote clean technologies.
8. Groundwater Regulation and Management in all districts of Delhi

9. Formulation of policies towards prevention and control of air, water and noise pollution under existing Acts and Rules.
10. Organization of workshop / conference / exhibition for spreading awareness on pollution control and environmental management among masses
11. Introducing the concept of zero wastewater discharge and promote decentralized wastewater treatment system.
12. Policy to discourage purchase and use of high end Diesel SUVs in Delhi

Achievements

1. Clean Air Agenda has been prepared to improve Ambient Air Quality of Delhi
2. Battery Operated Rickshaw to promote less polluting Vehicles is under Consideration
3. water conservation recycle & reuse the proposal for installation of Rain Water Harvesting System are under consideration

Physical Targets

- 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
- Feasibility study for adoption of innovative pollution control measures

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, 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.

1. Strengthening of Administration Management, Infrastructure, Training of Personnel and Publicity Measures for Forest & Forestry

Plan Outlay

Annual Plan 2013-14 : ₹ 280 Lakh

Aims and Objectives of the Scheme:

- i. In order to enable the department to effectively cater to mandate assigned, the Department is required to be strengthened in terms of Manpower & Infrastructure
- ii. To strengthen administration of the forests department in NCT of Delhi
- iii. To ensure better forest management of Ridge areas and City Forests
- iv. To create awareness among people about importance of ridge and forests in general through various means of publicity.
- v. TRAINING of staff to enhance skill and efficiency

Under this scheme, Department has proposed to strengthening of administration of department, operational cost of maintaining tree helpline, office automation, communication, maintenance and replacement of old computers and its accessories and publicity & creation of awareness

2. Development of Forest including Consolidations

Plan Outlay

Annual Plan 2013-14 : ₹ 1450 Lakh
Revenue : ₹ 450 Lakh
Capital : ₹ 1000 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 20.20% of its geographical area under forest and tree cover
- 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

Under this scheme, Department has proposed for Plantation on vacant forest/ non-forest land available/ to be made available (2.5 lakh saplings), maintenance and development of existing Nurseries (5 no.), Existing City Forests, development of new city forests (4 no.) block plantation/ wood lots, survey, demarcation, consolidation of forest land & mapping, development of water bodies in forest areas (6 no.), construction

of Boundary Wall & proving fencing of forest area (6 Km.), construction of Watch Tower for protection (6 no.), Eco-restoration of Reverine Eco-system at Garhi Mandu, soil & water conservation measures (construction of rain water harvesting structures (6 no.), maintenance of forest road and inspection paths (7 Km.) and opening of city forest for public use (4 no.)

3. Development of Wildlife Sanctuary & Strengthening of Wildlife Section

Plan Outlay

Annual Plan 2013-14	:	₹ 850 Lakh
Revenue	:	₹ 200 Lakh
Capital	:	₹ 650 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 Plan 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.

Under this scheme, Department has proposed for providing food and shelter for monkeys trans-located as per the Hon'ble courts' orders, habitat improvement measures in the wildlife sanctuary including soil and water conservation measures , watch and ward of wildlife godown for safe custody of wildlife offence material & seized articles, establishment of a transit centre with adequate veterinary facility at Rajokari.

Department also proposed for preparation of Management plan for Asola Bhatti Wildlife Sanctuary which were notified in the year 1986 and 1991 respectively, 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.

The project for rehabilitation of degraded forest land in Asola-Bhatti Wildlife Sanctuary was originally approved by the EFC in 2000 with the estimated cost of ₹ 8.23 crore and thereafter in subsequently it was revised in 2005 and 2009 with the estimated cost of ₹13.16 crore and ₹ 25.55 crore respectively. The Extension of project for rehabilitation of degraded forest land in Asola-Bhatti Wildlife Sanctuary and Dera Mandi Area through Eco-Task Force has also been approved by the EFC in its meeting held on 20.12.2011 with a cost of ₹31.30 crore and further extended upto 31.03.2017 with the cost of ₹ 44.82 crore by the EFC in its meeting held on 26.06.2012.

4. Creation & Maintenance of Urban Forestry

Plan Outlay

Annual Plan 2013-14 : ₹ 15 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

Under this scheme, Department has proposed free distribution of saplings (6 lakh), 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 and other ceremonial functions

5. Monitoring of Greening Activities in Delhi

Plan Outlay

Annual Plan 2013-14 : ₹ 5 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
- The scheme also aims at monitoring / evaluation of the gains made in greening and other activities through independent agency

DEPARTMENT OF INFORMATION AND TECHNOLOGY

Department of Information Technology is responsible for implementing the Information Technology (IT) Policy of Govt. of National Capital Territory of Delhi across all the govt. departments. Objective is to improve governance with efficiency, transparency and quick delivery of public services through promotion and application of information technologies. World over mega cities are using ICT which help intelligent utilization of physical infrastructure and support sustainable economic growth. GNCTD is contemplating to make Delhi a smarter city in the next five years through intensive use of information communication technologies and promotion of R & D in ICT. IT Department is working with this vision and mission to put technology to its highest and best use throughout Delhi Government Department/Autonomous Bodies to improve the administration of State programmes and services. It also provides guidance on technical matters to Departments, vetting IT projects and taking Department on achieving IT Road Map are etc.

Major achievements / IT initiatives in this sector are as under :

- E-governance has been set up for transparency and speedy implementation of rules and regulations.
- 116 government services have been notified for time bound delivery of services .
- Delhi- is the first state to have an e- monitoring system through which citizens can track their applications and check for delays online through eSLA.
- E-court fee system launched.
- 100 Jeewan centers are functional throughout the city which provide a common platform to the public and business enterprises to avail various public services.

1. Direction and Administration

Plan Outlay

Annual Plan 2013-14 : ₹ 40 Lakh

Purpose of the plan scheme is to strengthen IT Cadre by putting in place a strong, efficient and knowledgeable IT Experts to keep in pace with changing technologies and upgradation through training programmes. There is a need to hire the Technical officers on contract basis in various Departments of GNCTD. The domain experts can be hired either on short term or on regular post. Proposed Budget outlay is to meet the expenditure on salary and other administrative expenses. During the period of April-Dec'12, more than 330 employees have been trained.

Components of the Scheme:

- To impart basic e-Governance related training, computer and office automation trainings.
- Sponsoring of ITCadre officers to specialized Institutions providing training in new emerging technologies Database Management system, Networking and Network Security, Application software development tools etc.

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

Plan Outlay

Annual Plan 2013-14 : ₹ 50 Lakh

- **Local Area network (LAN)**- 900 Machines have been brought on the LAN in the Delhi Secretariat. On the existing LAN various centralized applications like file monitoring system, letter monitoring system, and secretariat attendance system, etc. are running . A state of Art server room has also been set up with leased line connecting the Secretariat server to the NIC Headquarter from which access to internet is given.
- **Delhi State Wide Area Network (DSWAN)**-All major Departments have been connected with the Delhi Secretariat with 3 mbps leased line of MTNL. Department of Information Technology is to include more Departments under DSWAN. New technology like WiMax and others may be made available by telecom sectors and GNCTD is getting ready to accommodate new technologies to maintain pace with emerging world.

- **Wireless Fidelity (Wi-Fi)-** Wi-Fi allows electronic devices to exchange data wirelessly over a computer network. A device enabled with Wi-Fi, such as a personal computer can connect to a network resources such as the internet via a wireless network access point, which has indoor range and greater outdoors range. Department is to implement wi-fi by adding new infrastructure and establishing required equipments.
 - **Delhi e-Governance Model-** It envisions e-governance through Common umbrella software CSS and department specific software DSS .DeGM tries to include area uncovered under NeGP and State Concentration Area.
3. **Training of Employees of Delhi Government in use of IT Hardware & Software**

Plan Outlay

Annual Plan 2013-14 : ₹ 15 Lakh

The promotion of Information and Communication Technology requires continuous training for enhancing skill of employees in the emerging technology areas. It includes providing computer training for PC usage and specialized trainings to IT Cadre officials of Govt. of Delhi. It is therefore necessary that the Govt. employees including employees of Govt. of Delhi, Corporations and Autonomous Bodies would be trained regularly on usage of tools for day-to-day operations.

There will be Basic e-Governance related training, computer and office automation trainings. Department proposes to sponsor Information Technology Cadre (ITC) Officers/Officials to specialized Institutions providing training in new emerging technologies including Project Management, Information System/Software Audit, Cyber Laws, Database Management System, Networking and Network Security, Application software development tools etc. Department also proposes to sponsor Information Technology Cadre (ITC) Officers/Officials for participation in conferences, seminars & workshops.

Promotion of I.T Application

Plan Outlay

Annual Plan 2013-14 : ₹ 20 Lakh

- **State e-Governance Award:** Recognizing the need to acknowledge the vision and efforts made by various Departments in the field of e-Governance, the State e-Governance Award for implementation of best e-Governance initiatives has been planned for Department/ Local Bodies/Autonomous bodies of GNCTD.
- **E-Governance Magazine:** Departments of IT, GNCTD intends to start quarterly e-Governance Magazine for sharing the experiences, knowledge, and learning from various IT projects, IT practices and trends etc. , showing the progress of various IT initiatives and to sensitize the Departments for adoption of best IT initiatives.

- **Exhibitions:** To organize and to promote participation of IT professionals in various National level e-Governance Conferences, workshops, seminars, conferences, exhibitions etc. to enable them to keep in pace with the latest trends, practices and global/national episodes etc.
- **Employee Resource Information System (ERIS):** A Knowledge Management Portal is proposed to be set up, which will provide a common platform to share the reports, documents, templates, manuals, office procedures, Notifications and other day-to-day Circulars. ERIS will provide necessary and useful information to the employees of Government of NCT of Delhi.

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

Plan Outlay

Annual Plan 2013-14 : ₹ 245 Lakh

- **Jeevan (CSC Project) :** Jeevan Project is based on the Public Private Partnership model(PPP) model. There are 24 services being delivered through 100 centers. Jeevan Portal works as the Informative, interactive, integrated and trusted service delivery channel for all the Government to business (G2C) and Government to Citizen (G2C) services of the State and its constituent departments.
- **e-SLA.** Recognizing the concerns of an ordinary citizen and to improve the quality of public services within a well-defined time frame, a new legislation, the Delhi (Right of Citizen to Time-Bound Delivery of Services) Act, 2011 was enacted and was implemented w.e.f 15 Sept. 2011. Presently 116 services of 23 Departments have been integrated into e-SLA software. For transparency and efficiency in government administration, Government is planning to increase this to 200 with the facility of e-monitoring. Citizens are also enabled to track their applications through e-Monitoring System and get the status under eSLA.
- **e-Procurement:** To bring transparency in the procurement of materials and services and for cost efficient and quick tendering process, e-procurement system has been implemented since February 2008. From May 2011 the e-Procurement platform of NIC has been adopted in GNCTD. All the tenders valued more than ₹ 2.00 lacs are being processed through e-Procurement. Project is being handled by DeGS/DIT, GNCTD through the NIC . Till date around 12000 tenders have been processed through the e-Procurement.
- **Aap ki Sunwai:** Project aimed at redressal of public grievances through a call center Helpline, where citizen can lodge their complaints regarding deficiency in services provided to citizen of Delhi, by the Govt. of Delhi. The public can register their grievances either on portal "<http://aapkisunwai.delhi.gov.in>" or through the call center with helpline number 1031. The complaints are electronically transferred to the Grievance Redressal Officer of the concerned Department for redressal. GRO (Grievance Redressal Officers) are to monitor the same. Citizen can also keep track of the status of their grievance online.

6. Development and Maintenance of Delhi Govt. Portal

Plan Outlay

Annual Plan 2013-14 : ₹ 100 Lakh

- **Content Management Systems (CMS)** : It gives information regarding various activities, rule, Procedure forms etc. provided by the departments at the centralized website. 135 Departments of GNCTD have been brought under CMS. It is planned to have the Mobile content Website so as to Provide various Portal facilities through mobile devices.[Disaster Recovery site for CMS of DIT,GNCTD will be set up at NIC Pune].
- **Security Audit** is a process to identify security vulnerabilities, threats , malware of software applications database etc. The department proposes to get audited Delhi government Web Portals from Competent agency's against hacking, defacing and other security threats. The department intends to formulate schemes and methodology requesting various Departments implementing e-Governance projects to carry out Security Audit.

7. Grant in Aid to Delhi e-Governance society.

Plan Outlay

Annual Plan 2013-14 : ₹ 10 Lakh

Delhi e-Governance society was set up on 04/07/2008. The primary objective of the Delhi e-Governance society (DeGS) :

- To administer the implementation of e-Governance projects for the overall benefit of the citizens and public by setting up the necessary administrative, financial, legal and technical framework, implementation mechanism and resources in the National Capital Territory of Delhi.
- To provide the economic, scientific, technological social and cultural development by promoting the utilization of Information Technology, Computer Communication Network, informatics etc.
- To Promote further development of services, technologies, infrastructure and value added computer and computer communication services. Implementation of PIS in all departments is being monitored.
- DeGS will have a great role in setting up of I.T. Corporation and all the e-Governance Project will be monitored by DeGS.

8. (a) Readiness for implementing various government of India's ICT related bill /Framework Standard/Tetra

Plan Outlay

Annual Plan 2013-14 : ₹ 220 Lakh

- **TETRA Communication System:** Govt. Of NCT of Delhi has adopted TETRA Network during the CWG-2010. Delhi police, Divisional Commissioner Office, DTC, Health and Family Welfare, MCD, Directorate of Home Guards and Civil Defense

etc. are major departments using Tetra for legacy period i.e. w.e.f. 1st , March, 2012. The departments will keep using existing TETRA network and more Department may request for using TETRA system. Further Delhi state has to comply/implement various Bills, standards, guidelines and framework of the government of India.

- **Implementation of National e-Authentication Framework:** The National e-Authentication Framework is to assist all government departments/agency at both central and state levels in the selection and implementation of appropriate authentication mechanisms for delivery of government services through internet/mobile .
- The proposed outlay shall be utilized for hiring of consultants, license fee, rent of TETRA Sets and exp on authentication framework.

b. IT Component for Samajik Suvidha Sangam

Plan Outlay

Annual Plan 2013-14 : ₹ 500 Lakh

Mission convergence, Samajik Suvidha Sangam, Government of NCT of Delhi (GNCTD) has been implementing the system integration project of Delhi Government for Developing robust web based application and centralized database encompassing demographic details of households living in the slums. To develop the convergence applications, M/s Vayam Technologies has been providing services of a system Integrator.

Aims and objective of the scheme/Project are:-

- Deployment of hardware in 24 extended GRC-SKs under SI Project.
- LAN at 20 new location and internet connection.
- Server installation at Data Center at NICSI, LNDC.
- Server installation at Disaster recovery Site in Pune
- SI schemes of SW &WCD – application implementation schemes of Urban development, GNCTD, SI schemes of Labour department.
- Department for Welfare of SC/ ST/OBC/ Minorities, SI Schemes of Education, health and Food and supply department of NCT of Delhi.
- GRC-SKs Activities – Finance module
- STQC appointed as TPA for System testing and Audit for SSS, System Integration Project

9. Preparation of Geo Spatial Data Base for Delhi

Plan Outlay

Annual Plan 2013-14 : ₹ 500 Lakh

The Project is aimed at creating geospatial data of Delhi, enabling for better planning/implementation of public amenities (Roads, sewage, water supply, land records). The Project was started during the year 2004-05 and now the updation is

going on .This Project has now been transferred to a Govt. owned company Geo Spatial Delhi Ltd wef 1-07-2012. Total 63 IP cameras are to be installed in various buildings in Delhi.

The Project will not only benefit the departments In preparation of their planning but also give updated information to public in r/o 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 the Delhi Spatial Data Infrastructure (DSSDI) Project. GSDL has to perform following tasks on behalf of the Government of Delhi.

- To Provide navigation and other information through the 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 man-made 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 the facility to update the information in consonance with the periodical -progress of such 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.
- Updatation of GeoSpatial data.