

SCIENCE, TECHNOLOGY & ENVIRONMENT

A. SCIENCE & TECHNOLOGY PROGRAMME

1. Science and Technology Awareness Programmes (Rs.20.00 lakh)

Aims & Objectives of the Scheme

1. To promote various science and technology research projects, to promote scientific awareness among school children and general public.
2. To organize science fairs/exhibitions, to observe National Science Day, to participate in Children National Science Congress and to participate in National Science Congress.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay / Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	5.00		5.00	20.00		20.00
2	2009-10	20.00		20.00			

B. ENVIRONMENT PROGRAMMES

1. Pollution Disaster and Hazardous Waste Management (Rs. 100.00 lakh)

Objectives: To handle and manage hazardous waste as per Hazardous Waste (Management and Handling) Rules.

Outlays & Expenditure

(Rs.in lakh)

S. No.	Annual Plan	Approved Outlay			Revised Outlay / Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	50.00	100.00	150.00		100.00	100.00
2	2009-10		100.00	100.00			

2. Public Environmental Awareness & Other related activities (Rs.300.00 lakh)

Aims & Objectives

Ever increasing population in Delhi has resulted in significant increase in environmental pollution thereby affecting the health of public resulting in loss of avoidable man-days. It is realized that such problems can be tackled more effectively with cooperation of the public for which emphasis to be given to public environmental awareness activities. For this purpose, various publicity media such as newspapers, TV theatre shows, AIR, distributing publicity materials to the public are used. Some of the successful campaigns that have helped in creating adequate awareness about environmental importance are "Greening Delhi", "Say Yes to Eco-friendly Bags", "Save Yamuna", "Anti-Fire Crackers", "Waste minimization", "Play Holi with Safe & Natural Colours" etc.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	150.00		150.00	300.00		300.00
2	2009-10	300.00		300.00			

3. STRENGTHENING OF TECHNICAL SET UP IN THE ENVIRONMENT DEPARTMENT (Rs. 35.00 lakh)

Objective :

To provide infrastructure facility in the Department of Environment, Govt. of NCT of Delhi to handle the increasing workload on pollution issues are (i) To coordinate pollution control measures undertaken by various Departments in NCT of Delhi to control pollution. (ii) To implement the Govt. policies and various schemes for conservation of environment and control of pollution in Delhi.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	30.00		30.00	35.00		35.00
2	2009-10	35.00		35.00			

4. ENVIRONMENTAL DATA GENERATION, SURVEY, RESEARCH PROJECT AND OTHER ACTIVITIES (Rs. 15.00 lakh)

Aims & Objectives:

To conduct need based environment surveys, and data generation on continuous basis on quantum of pollutants generated from various sources such as industries, vehicles, thermal power stations and effect of hazardous, toxic waste on ground water and other water bodies. To implement the Government policies, Hon'ble Court's directions and conservation of environment and control of pollution.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	25.00		25.00	15.00		15.00
2	2009-10	15.00		15.00			

5. ECO-CLUBS IN SCHOOLS/COLLEGES (Rs. 225.00 lakh)

Aims & Objectives:

To create environmental awareness among the school and college students for environmental improvement and to inculcate the culture of Eco-friendliness among them. Under the scheme, Grant of Rs. 10,000/- to each eco-club in schools has to be released.

Some of the Activities of the Eco-clubs are:-

- To motivate the students to keep their surrounding green and clean by undertaking plantation of trees by students.
- To motivate the students to imbibe habits and life style for minimum waste generation. Source separation of waste, disposing off the waste to the nearest storage point.
- To compost horticulture waste to use it as a manure for school gardens.
- To sensitize the students to minimize the use of plastics/ polythene 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.
- To organize Tree plantation programmes in schools for which Delhi Forest Department provides saplings free.

- To create awareness on harmful effect of noise and air pollution caused by bursting of crackers on Diwali, which are manufactured basically by engaging child labour, exploitation of young children.

Major components

The scheme provides for setting up more number of Eco-club in schools & colleges to be set-up in addition to the 2000 existing Eco-Clubs. It is also proposed to establish Eco-club in ITI's, Polytechnics, other technical institutes etc.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	200.00		200.00	220.00		220.00
2	2009-10	225.00		225.00			

6. Assistance to NGOs in the Promotion, Conservation and Preservation of Environment (Rs. 50.00 lakh)

Aims & Objectives of the Scheme

To promote and assist various Non-Governmental Organizations in the conservation, preservation of environment and pollution control activities and to implement various programmes of Environment Department through NGOs.

To involve Residence Welfare Associations in various environmental conversation activities and provide assistance for carrying various environmental/pollution control activities/projects such as waste management, water conservation, eco care programmes etc.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay / Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	35.00		35.00	45.00		45.00
2	2009-10	50.00		50.00			

7. Involvement of Weaker Sections of Society in Improvement & Upgradation of the Environment (Rs.20.00 Lakh)

Aims and Objectives

To involve the weaker section population towards environment Improvement programmes, training as well as social security, hygienic facility, and safe waste handling to Rag pickers etc. This scheme will be implemented in association with Schools, NGOs and RWA. Under this programme, these agencies will be sensitized about the need to train the Rag pickers/Waste pickers for proper handling in connection with the garbage collection. This is expected to have a better solid waste management at the local level and also improving environmental condition locally.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	25.00		25.00	20.00		20.00
2	2009-10	20.00		20.00			

8. Introduction of Cleaner Extracting / Recycling Technology for Waste and Creation of Waste Disposal Facility (Rs.100.00 lakh)

Aims and Objectives: -

The aim of the scheme is disposal of waste in landfills or by best suited technology. Under the scheme, the following activities are to be undertaken. To introduce cleaner extracting/recycling technology for all type of Waste. To provide training to personnel for safe handling & proper disposal of the E- Waste. To identify an acquiring of land for E-Waste disposal facility and to develop E-Waste disposal facility and to adopt new technology in the disposal of different wastes namely Plastic Waste, Mercury Waste, Solid Waste, Electronic Waste and Bio-Medical Waste.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	25.00		25.00	100.00		100.00
2	2009-10	100.00		100.00			

9. Creation of Carbon Credit Facility (Rs. 10.00 lakh)

The objective of the scheme is to create awareness regarding a carbon credits, Clean Development Mechanisms (CDMs) and Green House Gas Emissions amongst the various agencies engaged in environmental related projects. Under this scheme, comprehensive analysis/studies will be conducted about cutting down green house gas emissions and making Delhi eligible for such carbon credit facility by various infrastructural development agencies under Clean Development Mechanism of Kyoto Protocol.

Outlays & Expenditure

Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	10.00		10.00	10.00		10.00
2	2009-10	10.00		10.00			

10. Assistance for Promotion of Solar Energy (Rs.25.00 lakh)

Aims and Objectives of the Scheme

To promote utilization of Solar Energy towards sustainable development, to involve all the stakeholders like Public Sector, Private Sectors, Eco-Clubs, NGOs, RWAs and Public in energy conservation and utilization of Solar Energy and organize various awareness activities on Solar Energy.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	25.00		25.00	25.00		25.00
2	2009-10	25.00		25.00			

11. Delhi Parks and Gardens Society (Rs. 500.00 lakh)

The objective of the setting of the Delhi Parks and Garden society is towards creation of a green environment in Delhi, identification of vacant spaces for taking up greening projects, working with local bodies, taking up projects for planting trees and shrubs in avenues, involvement of Residential Welfare Associations (RWAs) in maintaining parks and gardens, giving incentives to the NGOs in taking up greening

activities, release funds to RWAs and NGOs, hold competition to encourage greening and maintain nurseries and parks on its own.

The need for a unified agency for greening was felt to give a proper thrust to all greening activities in Delhi with proper focus. This would encourage people and organizations, who take up greenlining activities in local parks and gardens.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	200.00		200.00	200.00		200.00
2	2009-10	500.00		500.00			

12. Energy Conservation (Rs. 100.00 lakh)

Under this scheme, an energy efficiency and renewal energy management center has been set up to coordinate efforts of energy conservation. Initiatives towards conserving energy taken to popularize energy equipments like compact fluorescent lamps have paid off well.

B. FORESTS

9. Strengthening of Administration and Management Infrastructure, Training of Personnel & Publicity Measures for Forest and Forestry (Rs. 115.00 lakh)

The objective of the scheme is to strengthen the administration of Forest Deptt., to ensure better forest management of Ridge areas and city forest, to create awareness among people about importance of ridge and forests in general through various means of publicity. The Department has proposed to strengthen the administration through creation of posts, purchase of computers, printer, vehicles etc. A tree helpline with facility of LAN round the clock will also be established.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	80.00		80.00	96.00		96.00
2	2009-10	115.00		115.00			

10. Development of Forest including Consolidation (Rs. 415.00 lakh)

The objective of the scheme is to attain goal of 33% of forest cover as envisaged in National Forest Policy. As per the state of Forest Report, 2003 of the Forest Survey of India, 18.07% of the total geographical area of 1483 sq. km. of Delhi is under Forest/tree cover. To attain the goal of 33% of forest cover, the Department will involve public in plantation activity by encouraging them to plant saplings in their land. For achieving this goal, Deptt. is making available saplings free of cost and technical know how to public. It is proposed to increase the green cover further to maintain the Delhi as the greenest capital in the world. The Forests are essential to maintain the environmental equilibrium in Delhi which acts as sink for carbon.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	205.000	160.0	365.00	184.00	200.00	384.00
2	2009-10	215.00	200.00	415.00			

Physical Target & Achievement

Particulars	Unit	Target 2008-09	Anticipated Achievement 2008-09	Target 2009-10
Plantation of Sapling	Nos. [in lakh]	3.00	4.00	3.00
Free Distribution of Sapling	Nos. [in lakh]	5.00	5.00	5.00
Development / Construction of Water Bodies	No.	50		

11. Development of Wild Life Sanctuary & Strengthening of Wild Life Section (Rs.350.00 lakh)

- i. The objective of the scheme is to strengthen wild life section with more manpower & other infrastructure for more effective enforcement of wild life. The aims of the scheme also to strengthen the mechanism for enforcement of the provisions of the Wild Life (Protection) Act, 1972 in NCT of Delhi and to

undertake measures for both management of Wild Life articles as well as creation of awareness and education among public about Wild Life Protection.

- ii. The Asola-Bhatti Wildlife Sanctuary were notified in the year 1986 and 1991 respectively. But a lot more is to be done to ensure better management of the sanctuary and development of Bhatti Mine for eco restoration through Eco-Task Force. The preparation of management plan and development of habitat interpretation center are to be carried out. Besides creation of new sanctuary are to be explored and notification of Okhla Bird Sanctuary will also be initiated.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	50.00	190.00	240.00	105.00	400.00	505.00
2	2009-10	150.00	200.00	350.00			

Physical Target & Achievement

Particulars	Unit	Target 2008-09	Anticipated Achievement 2008-09	Target 2009-10
Eco restoration of erstwhile Bhatti Mine	Acre	400		
Construction/Repairs of Boundary Walls	Km	1.5	Boundary wall at Sahurpur	
Maintenance of Monkey Shelter	No.	1	Shelter to 7000 Monkeys	
Development of Water Bodies	No.	3		

12. Creation & Maintenance of Urban Forestry (Rs. 10.00 lakh)

Under this scheme, the following activities to be taken up:-

- i. Creation & Maintenance & Protection of Avenue Plantation in road dividers and round about in each division.
- ii. Beautification, Maintenance & Protection of Parks and Gardens.
- iii. Development of Nature Trail & Maintenance
- iv. Free Distribution of Saplings

- v. Publicity measures, celebration of Van Mahatsav
- vi. Creation of visitors amenities

Outlays & Expenditure

[Rs.in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	10.00		10.00	10.00		10.00
2	2009-10	10.00		10.00			

13. Monitoring of Greening Activities in Delhi (Rs.10.00 Lakh)

Delhi has been on the forefront of greening activities. The Department of Forests and Wild Life through its coordinated efforts with various greening agencies could bring in 18.07% of the geographical area of Delhi in forest and tree cover. The department also aims to get these plantations socially audited to bring in elements of transparency and accountability in the greening activities of the various greening agencies. The department has proposed the engagement of NGO's/Professionals for monitoring of green activities.

Outlays & Expenditure

[Rs. in lakh]

S. No.	Annual Plan	Approved Outlay			Revised Outlay/Anticipated Expenditure		
		Rev.	Capital	Total	Rev.	Capital	Total
1	2008-09	5.00		5.00	5.00		5.00
2	2009-10	10.00		10.00			

C. Department of Information Technology

1. Direction & Administration (Rs.59.00 lakh)

The Department of Information Technology was set up in 1998 .The IT Department has also become Cadre Controlling Authority of "IT Cadre" officials where in there are 220 posts existing in different departments of Govt. of Delhi.

An outlay of Rs.59.00 lakh has been approved for this scheme in Annual Plan 2009-10

2. Delhi Metro E-Network (Rs.100.00 lakh)

Following activities/ projects are covered under this scheme:-

- a) Local Area Network (LAN): On the existing LAN various centralised 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 Headquartes from which access to Internet is given to all the Offices of the Secretariat.
- b) Delhi State Wide Area Network (DSWAN): All the major Department have been connected with the Delhi Sectt Building through Leased Line and Tri B DG (Broad Band) and reaming departments will be connected during the Annual Plan 2009-10.

An outlay of Rs.100.00 lakh has been kept during the Annual Plan 2009-10

3. Training of Delhi Government Employees in Use of IT Hardware & Software (Rs.25.00 Lakh)

The promotion of information and communication requires continuous training for enhancing skill of employees in the emerging technology areas. 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. Following training programmes will be conducted during 2009-10.

- a. Basic Computer and Office Automation Training Programmes:

Lab equipped 20 Computers has been established in the Department of IT to provide the basic computer training to Delhi Government employees with the assistance of one hired faculty. During the year 2008-09, basic computer training was provided to 500 employees and a target for providing training to 500 employees has been proposed for the year 2009-10.

- b. Specialized Training to IT Cadre Officials

The emergence of new technology in the field of IT requires training for these IT Cadre Officials on regular basis. The department proposes to sponsor IT Cadre Officials to specialized institutions providing training in new emerging technologies including e-Governance Project Management, Database Management, Networking, Security & Application Software Development Tools etc.

- c. E-Learning

The department proposes to bring computer training on e-Learning platform for employees of different departments spread across Delhi. Computer labs in different departments of Govt. of Delhi will provide basic and specialized training in computers. The department thus proposes to set up an e-learning solution for the above training.

An outlay of Rs.25.00 lakh has been kept during the Annual Plan 2009-10

4. Promotion of IT Applications (Rs. 15.00 lakh)

a. Exhibitions: The Department of Information Technology participates in workshops, seminars, conferences and exhibitions organized by various institutions across the country. IT Department participated in e-India exhibitions. IT Department will participate in 2-3 seminars/ workshops during the year 2009-10.

Document Management System: The Department of Information Technology proposes to implement a document management system to achieve the goal of paperless offices. The document management system will handle intra-departmental communications like letters, memos, notices etc online.

An outlay of Rs. 15.00 lakh has been kept in Annual Plan 2009-10

5. Grant of Financial Assistance to Scholars and Researchers (Rs.12.00 lakh)

The students are selected by a committee of representatives of various Universities headed by GGSIP University of Delhi Government, from among the students pursuing Ph.D. and Post Doctoral Research in the field of Information Technology and Bio-Technology from Delhi University, Jamia Millia University, Delhi College of Engineering (DCE) or Netaji Subhas Institute of Technology (NSIT).

Various departments also propose to get various centralized and other applications developed from technical and educational institutes like DCE and NSIT. Various studies for e-Governance and development of applications proposed by different institutes like FMS & IIMs will also be considered under the scheme for attracting talent in the IT sector. The department proposes to give consultancy and development charges for the projects that they design & develop. Under this scheme, the Scholarship has been granted to 2 students during the year 2008-09. 5 students will be selected under this scheme during the year 2009-10.

An outlay of Rs.12.00 lakh has been kept during the Annual Plan 2009-10

6. E-Governance Projects and Process Re-engineering Support- (Rs 239.00 lakh)

a. Citizen Relationship and Grievance Management System – Call Center (CRGMS-CC): The first Phase of the project has been launched (i.e the Grievance Management System) in 2007-08 and the second phase (i.e Information Dissemination) has been implemented and Beta-Version of information Dissemination has been launched during 2008-09. It will be fully operational during 2009-10.

b. Delhi Online (Jeevan): The purpose of making Delhi Online is to setup 520 Information Kiosks(Jeevan Centres) spread all over Delhi to provide all under one roof viz Govt. Information, Utility Bills Payments, Challans and other payments through the payment gateway. The payment of utility bills will include payment of

Electricity Bills, DJB Bills, Telephone Bills, MCD Taxes, Examination Fees for CBSE 10th & 12th Class Exam, Tuition Fee/Examination Fee for Polytechnics & Engineering Colleges under DTTE and for colleges under GGSIPU. Delhi online (Jeevan) is serving as a gate way for one stop shop for all G2C and G2B interactions. This Project has been inaugurated on 26.2.2009. 62 Centers has been operational with billing services of MTNL, BSES, NDPL and DJB. Effort is being made to deliver all 104 G2C and B2C services by June 209

e-Procurement: The aim of the e-procurement system is to bring the transparency and efficiency in the procurement process. The Department of IT proposes to introduce e-Procurement for making Govt. procurement economical, faster and transparent. E-Procurement is one of the encouraging strategies adopted by trade and industry to reduce overall transaction cost and thus become more competitive. Cabinet has decided to implement e-Procurement solution of DGS&D for the purchasing of goods, services and works using a web based application in a phased manner. The e-procurement have been compulsory implemented in 73 Departments of GNCTD / organizations /Local bodies. Approx 2300 vendors have been registered e- procurement platform. More than 3000 officers and around 6000 vendor/ contractor bidders have been trained on e-procurement platform.

An outlay of Rs.239.00 lakh has been kept during the Annual Plan 2009-10

7. Development and Maintenance of Delhi Government Portal (Rs.50.00 lakh)

a. Content Management System: The Delhi Government Portal connects all the Delhi Government departments, agencies, autonomous bodies. To manage the content of the existing ninety plus web sites and also make new web sites it is essential to provide for Content Management System. The Content Management System will not only provide one point management of content, consolidation and integration of content but will also provide similar look and feel for different web sites. Beta Version of CMS portal has been launched in the year 2008-09 and it will be fully operational by May 2009.

b. Security Audit: Government portals are always subject to security risks. Department proposes to get audited the Delhi Government Web Portals from competent agencies with respect to security provisions and subsequently improve to secure the portal from hacking, defacing and other security threats. .The security audit of all the websites of the Delhi Govt has been done during the 2008-09.

An outlay of Rs.50.00 lakh has been kept in Annual Plan 2009-10.

8. Digital Delhi – Preparation for Commonwealth Games(Rs 2000.00 lakh)

As per the guidelines & instruction of OC of Commonwealth Games, IT Department will work on the action plan on two issues- Internet Connectivity and Web portal.

An outlay of Rs.2000.00 lakh has been kept in Annual Plan 2009-10

9. Preparation of Geo-Spatial Data Base for Delhi (Rs. 8000.00 lakh)

In pursuance to its e-governance initiative, for proper planning of the city of Delhi thereby ensuring safety and security for its citizens, the Government of Delhi (Geospatial Delhi Ltd) has signed an MOU with Surveys of India (SOI), the National Mapping Agency, under Department of Science & Technology, Govt. of India, in November 2007 for execution of a citizen friendly programme of Delhi State Spatial Data Infrastructure (DSSDI) Project, comprising of two major components for the entire NCT of Delhi:

- Land Information System
- Urban Information System

This is a 3D GIS based Project for providing household-level information and better management of all civic amenities like sewer, water, electricity, telephones, roads, parks, waters bodies etc. to bring in transparency in city governance.

An outlay of Rs.8000.00 lakh has been kept in Annual Plan 2009-10