



GREENING CHANDIGARH ACTION PLAN 2014-2015 Chandigarh Administration

CHAPTER-V

STRATEGIES FOR IMPLEMENTING THE GREENING ACTION PLAN 2014-15

I) MOTIVATING PEOPLE TO PLANT TREES

No Afforestation activity can be successful without people's participation. To nurture the trees and to motivate people & communities to actively participate in combating pollution at local level, Awareness among citizens and students will be created through print & electronic media, posters, banners & by organizing various debates, seminars & quiz competitions on nature themes. Following Strategies will be adopted to implement GCAP 2014-15:

a) PARTNERSHIP INITIATIVE PROGRAMME [PIP]

PIP was launched by the Chandigarh Administration. The motive of this PIP is to generate awareness among public about the activities to be undertaken by the departments and to seek participation of the public in the works of the departments. Under PIP, a total number of more than 90 NGOs are registered with the Forest Department for the tree plantation drive. To undergo a successful Plantation Drive, this year too Department of Forest will co-ordinate with various NGOs for spreading awareness among the stakeholders, Carry out Plantations.

Strategies to be adopted by Non-Government Organizations and Voluntary Bodies

NGO's, Environmental Groups, Rotary Clubs, Lions Club, N.S.S., will have following roles to play:

- To co-ordinate with Resident's Welfare

Associations & Market Associations for Plantation.

- To co-ordinate with the Eco-Clubs in Schools & Colleges for massive plantation.
- To train people, particularly children to plant trees properly.
- To identify such associations and schools which will be participating in the programme and identify a nodal person in each association to work with.
- To assess the number of seedlings required, as also the species which will be required.
- The NGO's will be advised to identify and adopt old trees growing in and around Chandigarh. For this, they could take help of financial institutions, cooperative sectors etc.

Strategies to be adopted by Resident's Welfare Associations

Resident Welfare Associations will act as basic co-coordinating unit in the programme. Their work will include:-

- Informing the residents about the tree plantation drive.
- Collecting saplings (free of cost) from Forest Nurseries.
- Gathering volunteers for planting.
- Identifying the places for planting.
- Co-ordinating with the NGO's and Govt. Agencies and chalking out programme for plantations in their respective colonies.
- Ensuring proper protection and regular watering of plants.



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b National Green Corpse

Introduction:

"Initiated in 2001, National Green Corpse, has since achieved significant success. Eco-Clubs under the programme of National Green Corps are playing an important role for the protection and conservation of environment. Working through Eco-Clubs, established in schools, MoEF had initially aimed at establishing 50,000 eco-clubs in this nationwide programme. The phenomenal response that the NGC has received has made the network grow than one lakh eco-clubs involving 60 Lakh (6million) students across the country in 10 years, making it one of the largest conservation networks. The unique partnership between the MoEF, the State government agencies along with dedicated NGOs working in the field of environmental education has contributed to the success of this programme.

Eco-Clubs of UT Chandigarh

Under the N.G.C. scheme, 137 Eco-Clubs have been working in 137 schools of Chandigarh. Besides this Environment Societies are also working in different colleges for the same purpose. In order to enhance the Environment education amongst the students, teachers and public sector of Chandigarh Administration, the department of Environment formed 21 Clusters/ group of Eco-Clubs for performing the environment awareness activities more efficiently in different Eco-clubs formed in the schools of Chandigarh.

Activities of Eco-Clubs:

- Creation of Herbal Gardens in the school/ college premises.
- Plantation of different Herbal & Medicinal Plants species and their dedicated follow up.
- Participating in Vanmahotsava.
- Construction of water ponds to understand the concept of water Bio-diversity.
- Production of organic manure from dry leaves
- Production of Vermi-compost
- Distribution of medicinal & Herbal plants to various schools, NGO's, individuals and other institutions to popularize the use of Medicinal plants among masses.
- Preparation of eco-friendly Holi colours to promote use of Herbal Colours among the citizens.
- Carrying out Cracker free Diwali campaigns
- Participating in educational trips to various bio-Diversity rich area of UT Chandigarh such as Sukhna Wildlife Sanctuary, Botanical Garden Sarangpur, Chandigarh.



Creation of Herbal Garden at Govt. High School Sec. 7 during 2013-14



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- Celebrating various Environment related occasions such as World Wetland day, World Forestry Day, World Environment Day, Wildlife Week & World Earth Day by organising competitions such as Debate-Declamation, slogan writing competition, Painting competition etc.

C) Strategies to be adopted by Forest Department.

Forest Department will co-ordinate the programme at various levels. It will distribute the saplings free of cost from its six Nurseries to the Educational institutions, Medical institutions, N.G.O.'s, Resident Welfare Associations etc. The Department will give technical know how about planting trees and its post planting care, choice of species etc. It will also look

after the plantation being created and already created earlier in forest area of UT Chandigarh.

d) Strategies to be adopted by Municipal Corporation

Municipal Corporation is having large numbers of parks and green belts. Due to financial and manpower constraints, it is not feasible for Municipal Corporation, Chandigarh to develop all these parks and green belts in one go. Therefore, Municipal Corporation may require Resident Welfare Associations in association with the local Councilor, other departments and Corporate Sector to develop and maintain these parks, green belts and roundabouts and to adopt them on certain kind of Memorandum of Understanding. Municipal Corporation is also selling



The Thematic plantation of Fruit bearing species created at 16.71 Acre Compensatory Afforestation site at village maloya, Chandigarh in year 2013-14.



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ornamental, flowering and fruit plants at nominal price. Municipal Corporation will also extend technical knowhow to the visiting individual/ organizations. Executive Engineer (Hort.), Municipal Corporation will be the nodal officer for co-ordination of plantation drive to be undertaken by Resident Welfare Associations. Municipal Corporation will also allow, wherever feasible, the citizens to put a small name plate near the sapling planted by him/ her. It will give a sense of belonging to effect post planting care. The local area Councilor, being the public representative will be the Prime Mover in this campaign.

e) Strategies to be adopted by Horticulture Division of Engineering Department

Horticulture Division shall guide all Government Schools and institutions to plant right kind of saplings depending upon the space availability and site conditions. The Department will be in constant touch with the Institutions. The Department is selling horticultural and forest plants at subsidized rates from its nursery in Sector-23. The department is to plant Avenue Trees along Roadside as per site availability & specific tree species.

f) Promotion of Renewable energy in Chandigarh

MNRE (G.O.I), New Delhi selected Chandigarh to be developed as Model Solar City.

Solar City: The Concept

A "solar city" is an urban area that

aims to:

- Reduce dependence on fossil fuels for its energy needs.
- Limit emission levels to sustainable levels even while maintaining the desired socio-economic development growth. Chandigarh Renewable Energy Science & Technology Promotional Society (CREST) under the aegis of Department of Science & Technology, Chandigarh Administration, is the Nodal Agency for executing Solar & other RE Projects.

Energy Consumption Scenario in UT Chandigarh.

The peak Electricity Demand of UT Chandigarh is around 350 MW which is being met from different Central/ State level power utilities/Generating stations. The UT Chandigarh has no generation capacity of its own.

Out of 350 MW, 37 % is being used by the Domestic Sector, 29 % by the Commercial Sector, 25 % by the Industrial Sector, 8 % by Agriculture and 1 % by others. As per guidelines issued by MNRE, Govt. of India, 3% of total energy consumption is to be obtained from renewable energy sources under RPO [Renewable Purchase Obligation] for UT Chandigarh and out of this 0.40% is to be from solar energy. Thus, about 5.4 million units are to be produced/obtained from solar energy. In order to meet its RPO obligation, UT Chandigarh has conceived Roof Top based SPV Power Projects as use of other renewable sources like wind power, Hydel power etc. is minimal in the Union Territory.



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Solar Energy Initiatives / Strategies Being Taken In Chandigarh

- (A) Solar Photo Voltaic Power Generation (Grid Interactive) Roof Top Based Solar power Generation Use of landfill site for Solar Power Generation
- (B) Solar Water Heating System
- (C) SPV Street Light system in Parks, Gardens Etc.

Progress so far:

Solar Photo Voltaic Power Generation

As on today, around 5 MWp Rooftop SPV Plant has been sanctioned by MNRE, GoI in last one & half year. 12 SPV Plants of overall

capacity 1860 KWp are already commissioned. Another 2 plants of overall 1200 KWp are under installation at 2 different Institutes and likely to be commissioned very soon. This year (2014-15), 35 Govt. schools shall have Solar Power Plants on their rooftops.

Solar Water Heating Systems

UT Chandigarh is facilitating all domestic residents in installation of Solar Water Heating System. 30% Capital Subsidy is also being provided by Government of India, MNRE for installation Solar Water Heating Systems for Domestic, Industrial and Commercial Sectors.



Sh. Farooq Abdulla, Hon'ble Minister, MNRE, Govt. of India, while inaugurating the 5KWp SPV Power Plant at Paryavaran Bhawan, Sec. 19 Chd. on 3rd July 2013



495KWp SPV Power Plant at Govt. College for Girls Sec. 11, Chandigarh.