



ENVIS CENTRE, CHANDIGARH

NewsLetter

P a r y a v a r a n - P a t r a

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Chandigarh
State of Environment



EDITORIAL

THE ENVIRONMENTAL HEALTH : CHANDIGARH (VOL. I)

Cities are comprised of more than just buildings and people. The most “liveable” cities – and some of the world’s most famous cities – are as known for their open space as they are for their culture. The term Environment of any place defines various parametrical conditions of the area such as forest, air, water, and soil including the utilization & sustainable developments of the respective fields.

This newsletter is the first in series to describe the present environmental scenario of the city beautiful, Chandigarh covering the prime environmental factors and their status.



For Private Circulation only

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ENVIS CENTRE
Deptt. of Environment
Chandigarh

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E-mail : ch@envis.nic.in

Web : www.chandigarhenvis.gov.in



Forests & Tree Cover

Chandigarh is a well planned city known all over the world for its architecture planning and landscaping. The Master plan of the 'City beautiful' Chandigarh was prepared by a Swiss-French architect Le Corbusier. It is a Union Territory of India, which serves as capital of Two North Indian States, Haryana & Punjab. The City was named after the mother goddess of power "Chandi", whose temple "Chandi-mandir" is located in vicinity of the site selected for the city. The city comprised of beautiful parks, green spaces, sectoral gardens, seasonal flowering vegetation along the roads and inside the residential belts.



The greening is an integral part of Urban Planning in U.T., Chandigarh. Tree plantation along avenues, open spaces, green belts and around building complexes are enthralling features of the city.

A number of beautiful avenues with conspicuous tree species, well wooded forests along the periphery of city, 'Sukhna lake' against the backdrop of Lake Reserve Forests, green belts running across the length and breadth of the city and a beautiful 'Sukhna Wildlife Sanctuary' on its periphery, further enhance the ecological, environment and aesthetic richness of the city.

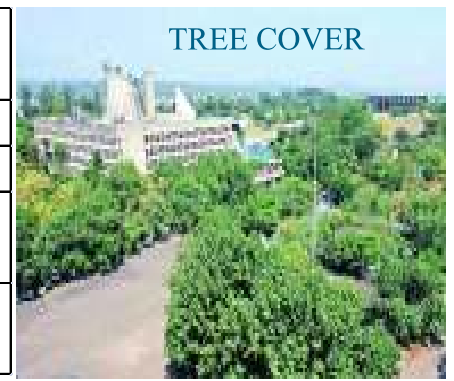


Green Cover of Chandigarh



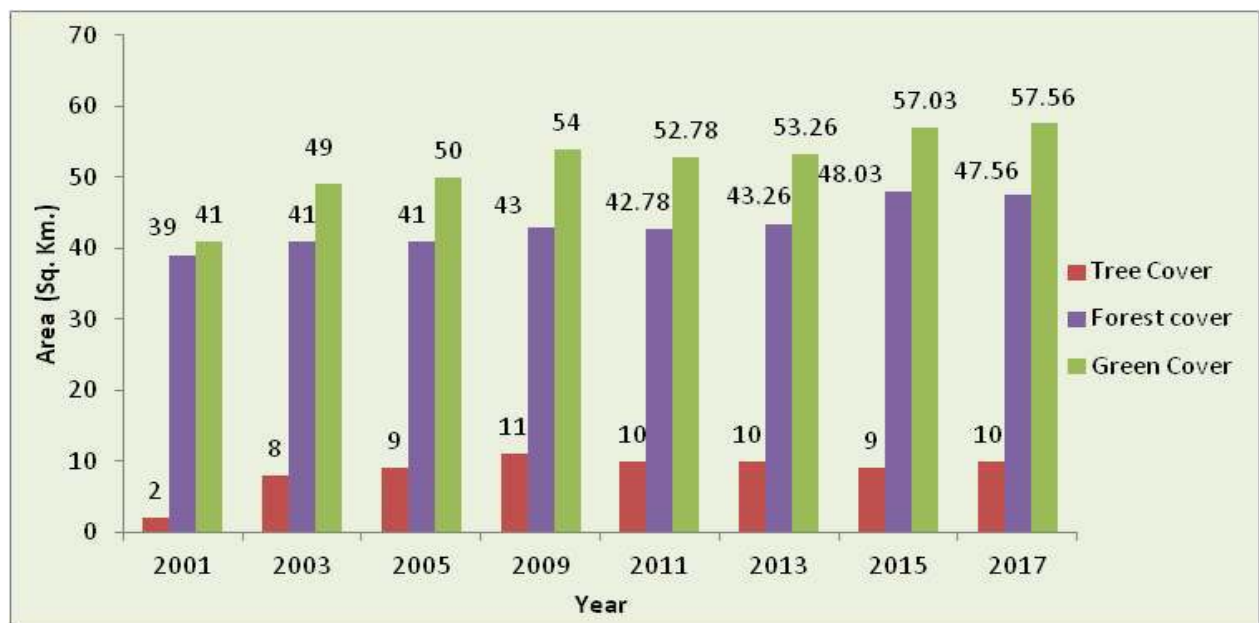
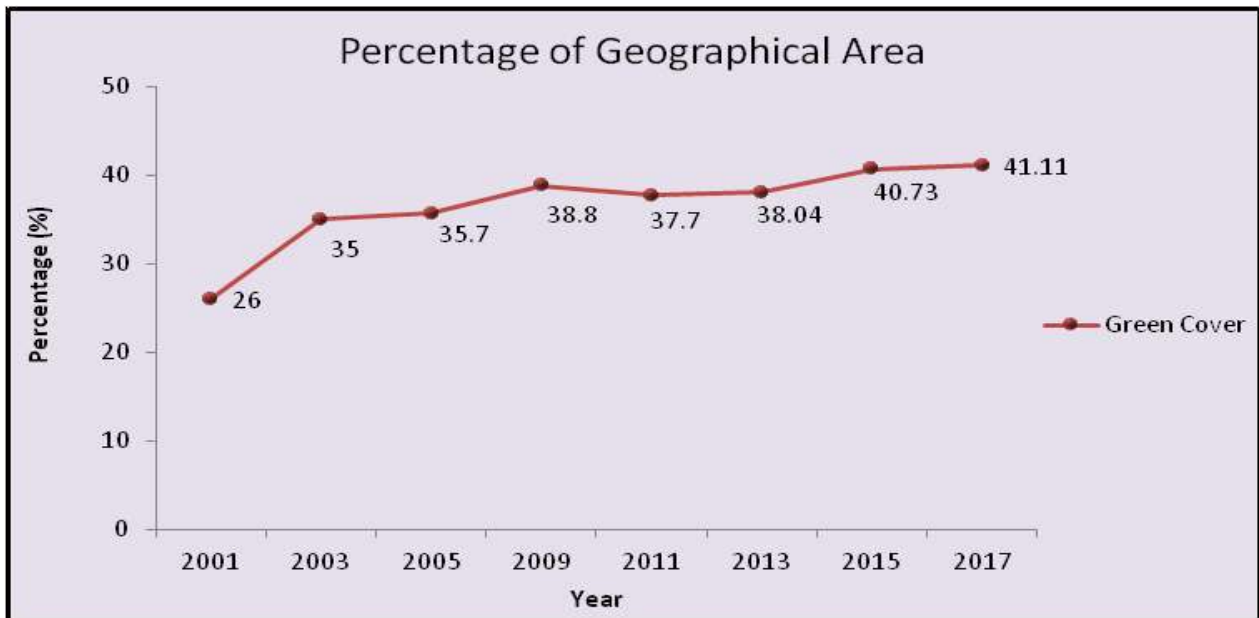
FOREST COVER

| | |
|---|------------------------|
| Geographical Area | 114 + 26 = 140 sq. km. |
| Forest Cover | 48.03 sq.km |
| Tree Cover | 9.00 sq.km. |
| Total Green Cover | 57.03 sq. km |
| Total Green Cover is 40.73% of the total geographical area | |



TREE COVER

Percentage change in Green Cover over the years



Web : www.chandigarhenvi.gov.in

E-mail : ch@envi.nic.in



Urban Forestry in Chandigarh

- ✎ Urban Forestry is incorporated in overall Urban Planning
- ✎ Only one particular tree species are planted on one road
- ✎ Indigenous and Exotic tree species are given preference during plantation
- ✎ Strict implementation of the “Tree Preservation Order 1952”



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E-mail : ch@envi.nic.in

Components of Green Cover

- ✎ Roadside Plantations (Road Avenues)
- ✎ Gardens and greenbelts
- ✎ Plantations in institutions
- ✎ Herbal Gardens in schools & colleges
- ✎ Reserve Forest and Wildlife Sanctuaries



Greening Chandigarh Task Group



To chalk out the planning of the plantation works, its implementation, monitoring and to look into all aspects of the Silvi-cultural & Horticultural operations within the Union Territory of Chandigarh **Greening Chandigarh Task Group** was constituted under the chairmanship of Deputy Conservator of Forest, Union Territory Chandigarh in the year 2001.

Greening Action Plan (GAP)

The preparation of the Greening Action Plan is an attempt to combine the interests and concerns of all the sections of the urban community into an overall planned, integrated and a systematic strategy for better management of the urban forestry to make the city beautiful and greener. The Greening Action Plan describes the plantation targets of the various departments and strategies to achieve the desired results by streamlining and unifying the efforts and inputs of all the stakeholders- Departments, NGO's, Educational Institutions, resident's Welfare Association (RWA's), & Individuals etc.

Chandigarh : A Model Solar City

- Chandigarh has been selected as the Model Solar City and the master plan was approved by Ministry of New & Renewable Energy (MNRE), GOI in Feb 2012. With an aim to achieve the target of 50 MW by 2022.
- Chandigarh has taken a leading Position among all solar cities of the country by installing 16.146 MWp Grid tied Rooftop Solar Plants on 375 Nos. sites of the city as on 31th Dec, 2017.
- Among the overall capacity of 16.146 MWp, aggregate capacity of 13.281 MWp Rooftop SPV Plants on 209 Nos. of different Govt. Sites in U.T. Chandigarh besides this rest 2.865 MWp at 166 Nos. private different sites have been installed.
- Chandigarh has already generated 31.04 MU of solar energy on the rooftops of Govt. buildings in last 4 years which is equivalent to reduction of 21417 MT CO₂ and in turn is equivalent to planting of 23.21 Lac trees which is a big initiatives under Climate Change Action Plan
- Chandigarh was bestowed with Two National Excellence Awards in 2016, one for becoming Number one Solar city of the country in terms of Roof top Solar Capacity installation and another for becoming top performing State Nodal agencies for Renewable Energy among UTs & special category states.
- The Solar City Initiatives of Chandigarh has also been included in the “Innovation Category” of Country’s Top 62 Innovation Story in Public Services which was released on 21st April on the occasion of Civil Services Day, 2017 by Hon’ble Prime Minister of India

Expected Outcomes

- UT Chandigarh has prepared the “State Action Plan on Climate Change” and is determined to develop Chandigarh as environmental friendly and sustainable smart city with decreasing carbon footprints.



50 kWp Rooftop SPV Plant at Paryavaran Bhawan



200 kWp Rooftop Solar Plant at ISBT, Sec-43





Initiatives taken to promote Solar Power in Private Sector:

- CREST has empanelled Large nos of EPC Contractors for installation of rooftop Plants and 30% subsidy as provided by GOI shall be released to the consumer if they get it installed through any on of the.
- CREST has launched an online portal: www.solarchandigarh.com wherein any regulatory clearances including subsidy can be obtained online by any consumer as part of Ease of Business.
- UT Chandigarh has recently notified amended Building By- laws to make Solar PV Installation mandatory on all buildings in U.T., Chandigarh above 500 Sq yard Plot size to promote the Chandigarh as a Model Solar City



300 kWp Rooftop Solar Plant at ISBT, Sec17



1000 kWp Rooftop SPV Plant at PEC, Sec 12

Noise Health of City Beautiful



| Categories of Area/ Zone | Limits in dB(A) | |
|--------------------------|-----------------|------------|
| | Day time | Night Time |
| Industrial Area: | 75 | 70 |
| Commercial Area: | 65 | 55 |
| Residential Area: | 55 | 45 |
| Slence Zone: | 50 | 40 |

The Noise Index of city is raising Day by Day and there are many driving forces behind it:

Traffic: As we are aware, City has largest density of vehicles (**878 vehicles/1000 people**). Noise from engines, Honking horns and breaks of vehicles contributes to noise in environment.

Commercial Activities: Noise from Industries, Commercial Complexes, Rehri Markets and Mandies

Community Noise: Loud speakers and bursting crackers at religious and social gatherings such as festivals and marriage functions.



**Dear Information Seeker,**

ENVIS CENTRE, Chandigarh furnishes you with the services to collect and disseminate information related to environment of Chandigarh. To share information with us you are requested to fill up the form given below.



Your feedback is valuable to us and will be highly appreciated

- Name _____
- Designation _____
- Department _____
- Address _____
_____ City _____
- State _____ Country _____ Pin _____
- Phone _____ Fax _____
- Email _____

Your views on scope of improvement :

- Interest Area _____

➤ I would like to have information on following :

ENVIS CENTRE TEAM

Sh. Santosh Kumar, IFS
(Director, Environment)

Sh. P.J.S Dadhwal
(Project Coordinator)

Er. Mohit Badhwar
(Programme Officer)

Dr. Abhishek Srav
(Information Officer)

Sh. Surinder Sharma
(I.T. Cum Data Assistant)

Impacts of Noise Pollution on Human Health:

- Tiredness and headache
- Hearing Impairment
- Impairment of visual acuity by the loud music
- Lack of concentration
- Aggression
- Speech and Sleep interference
- May cause heart problems
- Tension, uncertainty and faster talking
- Decrease in informal interaction amongst neighbors
- Poor Scholastic performance
- Elevated blood pressure
- Impact on sleep and hearing

Steps taken by Chandigarh administration to curb Noise Pollution**From:**

ENVIS Centre
Department of Environment
Chandigarh Administration
3rd Floor, Paryavaran Bhawan,
Madhya Marg
Sector 19B,
Chandigarh - 160019

Ph. No: 0172-2700065, 0172-2770998

Email: ch@envvis.nic.in

Website: www.chandigarhenvvis.gov.in

To,

Note : While every care has been taken in compilation of the information available for this newsletter. However, readers must make thorough confirmation/enquiries at their own level before acting upon any data/information provided to the readers. Any discrepancy brought in the notice of ENVIS CENTRE, Chandigarh will be highly appreciated.