ENVIS CENTRE, CHANDIGARH

NewsLetter

Paryavaran - Patra

Chandigarh
State of Environment



★ EDITORIAL

Transportation and tourism are the discs of backbone of any city in fact contributing to face value of a nation. Chandigarh Administration and MC have jointly taken steps to strengthen the backbone. The number of hotels and gardens are on increase and so is number of international tourists. Chandigarh being situated on the way to Shimla, the queen of hills, is favorable stoppage on the way. Chandigarh is well connected to rest of India by road and international airport would get it connected to globe by air.

Chandigarh is an IT hub of the region and hence proving educational and career opportunities to me many. Chandigarh dons a modern look to facilitate international level facilities like five star hotels coming up. It has well developed IT facilities like internet etc.

Chandigarh is fondly called 'City Beautiful'. I feel it is only because of aware residents and conscious Administration. It is duty of each and every individual enjoy the environment of the city to keep it clean and green.

Additional Director, Environment













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Transportation

Chandigarh boasts one of the best transportation systems in the country with respect to its geographical area and ratio of vehicles per capita. Within the confined area of 114 sq. km., over 7 lakh vehicles are registered. Thousands of vehicles ply to and fro from neighbor cities. With 2587 km of roads city host finest infrastructure for vehicles and at the same time has won accolades for the best facilities for pedestrians.

Chandigarh, developed as model city, is happening place which is urbanized for the best of tourism and livable conditions. Over the period of time the commercial activities and job opportunities have lured many to make city their home. It is educational hub as well as IT hub of the north region of India.

In context of tourism facilities and transportation, both are directly proportional. Better transportation and reach means better tourism facilities. At the same time transportation and environment are indirectly proportional. More of transportation facilities cost natural environmental values. In fact vehicular pollution is the major cause of deteriorating air quality of Chandigarh. Every year thousands of vehicles are being added to the already confined roads.

Year Wise Registration							
Year	Cars /Jeep	Motor Cycle /Scooter /Moped	Auto Rikshaw, Three Wheeler (Passenger)	Buses	Goods Vehicle	Tractors	Total
2005	10265	19216	86	93	34	6	29700
2006	12893	20649	75	102	44	12	33775
2007	13812	19170	72	88	81	33	33256
2008	15129	18145	128	64	94	14	33574
2009	18293	18112	1329	31	98	18	37881
Total Since 1967	222390	507139	3392	4156	4061	83	741221

RLA, Chandigarh

Data indicates that number of vehicles' registration is on continuous increase. 36881 vehicles were registered by registering and licencing authority of Chandigarh in 2009. In total 741221 vehicles are registered in Chandigarh. The figures excludes the number taxies and some other vehicles which are registered by State Transport Authority.

Types of Fuels and Pollution

Table shown on the next page indicates the various types of common fuels and their environmental impact. It is found that fossil fuel pollutes the air. LPG on the other hand is cleaner fuel with the following properties:

- 1. Low carbon to hydrogen ratio means lower emissions of Co₂
- 2. More energy per kilogram in comparison to other fuels
- 3. LPG is not a Green House Gas and is assigned to Zero Global Warming Potential

Chandigarh Administration has taken a note of it and has made a decision of converting all fuel driven autos of the city to LPG. Also, Solar Rikshaws are introduced. Battery operated vehicles are subsidized. Concepts like energy park are being developed to spread better awareness among the residents.



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TYPES OF FUELS AND POLLUTION

petroleum refining is that 45% of the fuel in the U.S. is emissions for fuel LPG vehicles can nationwide. The disadvantage of Petroleum Gas 60% reduction in LPG is the most widely available A by-product of demonstrate a derived from oil. alternative fuel ozone-forming refueling sites or natural gas an estimated compared to reformulated processing Liquefied emissions gasoline. 3,400 (LPG) Liguid C3H₈ vehicles, and only engines operating Compressed Gas NO_x emissions dependence on Zero regulated produced from Methanol, and cell-powered foreign oil by on hydrogen. Reduce U.S. Natural Gas, other energy possible for combustion renewable. Hydrogen renewable resources. internal being $\frac{7}{4}$ tailpipe emissions; emissions can be gas, hydroelectric, power generation. generated mainly through coal fired forming emissions however, some energy resource economical and EVs have zero coal is our most stable fossil fuel. and renewable nuclear, natural Coal; however, contributed to resources can Electricity is power plants. is the United **Electricity** amount of be used. States also ¥ X conventional fuels; emissions may be Compressed Gas United States has CNG vehicles car vast natural gas produced. The demonstrate a however, HC Underground compared to domestically reduction in increased reserves reserves. CNG is ozone CNG CH₁ may be increased. which means that C₁₆-C₁₈ fatty acids particulate matter produced and has waste cooking oil inputs are similar Methyl esters of animal fats, and diesel; however, NO_x emissions its fossil energy ratio of 3.3 to 1, a fossil energy warming gas Soy bean oil, compared to conventional rapeseed oil domestically Biodiesel is emissions and global **Biodiesel** Reduces Liguid Produces harmful ising imported oil. however, diesel which is not an after-treatment energy secure emissions are being reduced especially with Manufactured mproving and emissions; are rapidly and diesel C10 to C20 Crude Oil vehicles Diesel devices option. Produces harmful however, gasoline and emissions are rapidly improving energy secure being reduced. which is not an and gasoline Manufactured vehicles are using mostly imported oil, Gasoline Crude Oil C₄ to C₁₂ Main fuel source **Energy Security Physical State Environmental** Impacts of Structure Burning the Fuel Impacts

ttp://www.ardc.energy.gov/ardc/pdrs/arv_into.p

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Fuel Shit to LPG

Fuel shift to LPG					
Year	Vehicle	Fuel	Value		
2005	Auto Rickshaws/Three Wheelers	LPG	-		
2006	Auto Rickshaws/Three Wheelers	LPG	-		
2007	Auto Rickshaws/Three Wheelers	LPG			
2008	Auto Rickshaws/Three Wheelers	LPG	51		
2009	Auto Rickshaws/Three Wheelers	LPG	1162		

Fuel shift to LPG				
Year	Vehicle	Fuel	Value	
2005	Four Wheeler	LPG	3	
2006	Four Wheeler	LPG	13	
2007	Four Wheeler	LPG	7	
2008	Four Wheeler	LPG	39	
2009	Four Wheeler	LPG	197	

RLA, Chandigarh

	Per Day Trains (Up)
Year	Values
2007	16
2008	16
2009	16

Per Day Trains (Down)			
Year	Values		
2007	16		
2008	16		
2009	16		

Railways

Railway in Chandigarh has shown dynamic trend. It has shown consistent increase in daily passengers until 2009. With many things in pipelines, new routes and metro etc, Chandigarh Railway is looking forward to better future. Presently 16 rains commutes up and down from and to Chandigarh.

People Travelled Per Day in Trains		
Year	Values	
2005	5000	
2006	5500	
2007	7000	
2008	8000	
2009	6,000	
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Station Superintend, NR, Chandigarh

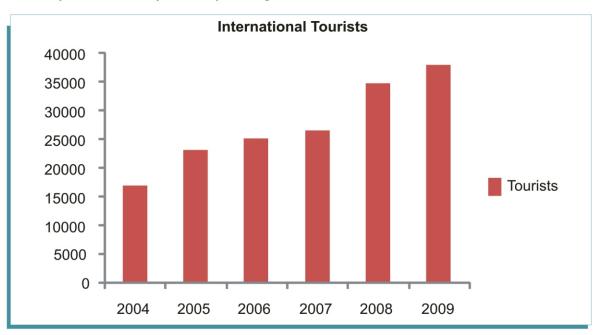


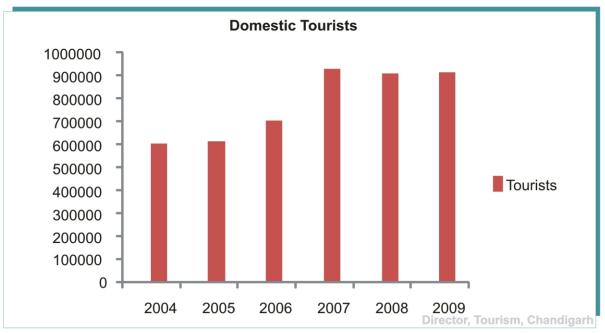


Tourism In Chandigarh

Chandigarh is called 'City Beautiful' by many for its green open spaces, wider roads, architectural beauty, Gardens, and tourist places. It has unique status of UT and capital of two states. Despite of commercial growth over the last decades, Chandigarh has been able to preserve and conserve the architectural and natural beauty.

Chandigarh has many places to visit including capitol complex, rock garden, sukhna lake, Rajiv Gandhi technology park, kansal and nepli forests, botanical garden, and Chandigarh war memorial etc. Chandigarh has many museums to visit, listed as Chandigarh Architecture Museum, Government Museum and Art Gallery, International Dolls Museum, Museum of Fine Arts, National Gallery of Portraits, Natural History Museum, Punjab & Haryana High Court Museum.







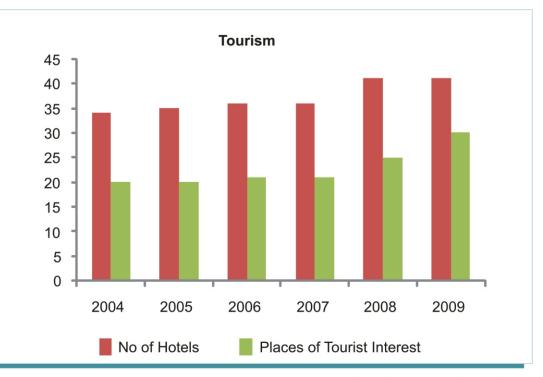


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Tourist Places in Chandigarh

Name	Location	Year
Chandigarh Architecture Museum	Sector -10	2009
Government Museum and Art Gallery	Sector -10	2009
International Dolls Museum	Bal Bhavan, Sector -23	2009
Museum of Fine Arts	Panjab University, Sector -14	2009
National Gallery of Portraits	T.S. Central State Library, Sector-17	2009
Natural History Museum	Sector -10	2009
Punjab & Haryana High Court Museum	High Court Complex, Sector -1	2009

Chandigarh has ample space for culture and Heritage which is conserved in museums. Chandigarh Administration is developing the city has tourist hub a n d continuously enriching the places of tourists' interest which is evident from the graph Chandigarh has seen consistent rise in the international



Director, Tourism, Chandigarh

tourists and upcoming International airport would add up only.



Feedback Form



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 L
■ Phone	Fax	
■ Email		
Your views on scope of in	mprovement :	
■ Interest Area		
I would like to have info	ormation on following:	
		ASA
		30
		0
		Feedback
		Culture
		Pod

ENVIS CENTRE TEAM

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Chandigarh, help keeping it green and clean

- ® Visit Chandigarh, enjoy Chandigarh, and respect Chandigarh
- ® Teach your Children to conserve and preserve by setting examples of self
- Use dustbins and don't litter
- Know more about Chandigarh and its history
- Take interest in the Environment and related activities
- Support NGOs and help Administration and MC working progressively
- Organize local camps and campaigns
- Participate for the noble cause, Environment

International Dolls' Museum





SPO, ENVIS, Chandigarh

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To,	Book Post	

