



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

TRANSPORTATION IN CHANDIGARH

Nothing is more important to civilization than transportation and communication. All trade of wealth and productive labor involves transportation, whether it is the movement of goods or the movement of people from their homes to their jobs or their homes to the places where they shop. City beautiful Chandigarh is the first planned city of India, having notably intelligent connectivity of road network throughout, rail links with the adjoining states and the adjacent International Airport, for lakhs of daily travelers to the city.



With the increase in population of the city, the demand for modern travel facilities has also been increasing day by day. As per the census 2011, the population density during the last 5 decades, has increased 9 folds from 1,051 to 9,252 persons per Sq Kilometer. Due to high economic status; the city has the largest density of vehicles i.e. 878 vehicles/1000 people.

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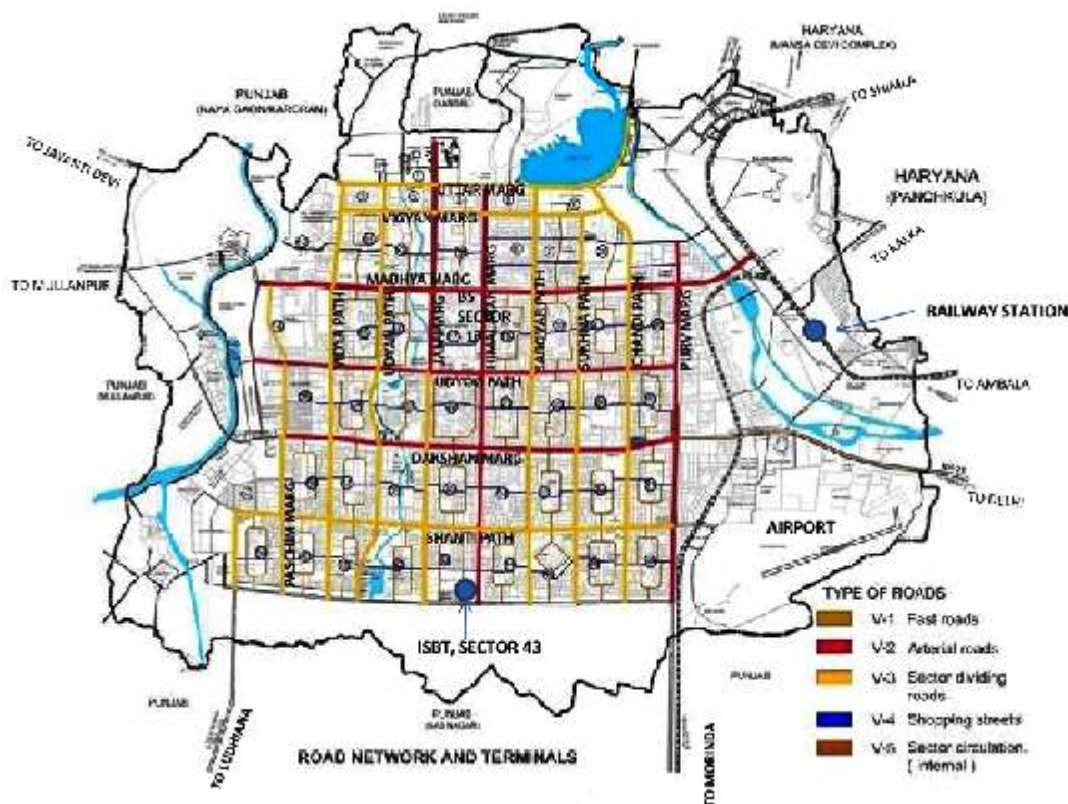
- ✎ Steps taken by UT and future perspectives for better transportation



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Details of Road Transport in Chandigarh



Road Type	Type of Movement Allowed
V1 Roads	Roads connecting Chandigarh with other cities in the region . The Madhya Marg and Dakshin Marg merge with the V1s leading to Kalka and Ambala respectively
V2 Roads	The major avenues of Chandigarh, with important institutional and commercial buildings located on them. E.g Madhya Marg, Dakshin Marg, Jan Marg, Himalaya Marg, Uttar Marg and Purv Marg.
V3 Roads	The corridor - streets for fast moving vehicular traffic. Every sector is surrounded by V-2 or V-3 roads
V4 Roads	Roads bisecting the sectors with shopping complexes located along their southern edge.
V5 Roads	Roads meandering through the sector giving access to its inner lands.
V6 Roads	Roads coming off of the V-5s and leading to the residential houses.
V7 Roads	Foot paths through green belts enabling pedestrians to cross sectors without having to cross vehicular traffic and cycle tracks.
V8 Roads	Cycle tracks through green spaces. Buses were to ply only along V2,V3 and V4 roads.

Source: Chandigarh Master Plan-2031

Transport Road Length in Chandigarh: PWD					
Year	National Highways	City Roads PWD	Rural Roads	Total In Kms	Unit
2000-01	64	139.6	72.66	1764.72	Kms
2001-02	67	219.23	72.66	1847.89	Kms
2002-03	67	219.23	72.66	1847.89	Kms
2003-04	77	393.8	89.66	2049.46	Kms
2004-05	80	403	102	2121	Kms
2005-06	80	825	102	2543	Kms
2006-07	80	853.97	73.03	2543	Kms
2007-08	80	853.97	73.03	2587	Kms
2008-09	95.23	656.84	114.46	2371.02	Kms
2009-10	95.23	674.01	132.44	2434.26	Kms
2010-11	95.23	847.61	170.24	2884.67	Kms
2011-12	100	388.44	150.63	2980.02	Kms
2012-13	100	485.87	154.67	3099.39	Kms
2013-14	100	508.84	157.63	3149.62	Kms

Source: Statistical Abstract Chandigarh

With the increase in population, economic status of the residents, modern machineries and need of fast locomotion, the administration of Chandigarh had worked for the continuous increase in the development of national highways, internal city roads, and rural roads, in last decade. The length of roads throughout the city has almost doubled from 1,764 km to 3,149 km in last 15 years.

As per the information obtained from RLA Department, Chandigarh; more than 3,58,000 four wheelers, 4,494 buses, 10,937 goods vehicles, 219 tractors and 6,68,000 two wheelers were registered with the city till 2015. With the total 10,50,299 registered vehicles, the city now having the highest per capita ownership of motorized vehicles in the country. A dramatic increase in daily floating traffic from the extensive urbanization, which has taken place around the city, the problem of traffic congestion is also growing in the city but the well connected network of roads, suitability of traffic signals, very attentive traffic police controllers and remarkable division of different roads helps a lot to control over the situation.

Transport: Total Vehicles						
Year	Cars/Jeep	MotorCycle /Scooter /Moped	Buses	Goods Vehicle	Tractors	Total
2005	10265	19216	93	34	6	29700
2006	12893	20649	102	44	12	33775
2007	13812	19170	88	81	33	33256
2008	15129	18145	64	94	14	33574
2009	18293	18112	31	98	18	37881
2010	25565	24773	150	446	32	51737
2011	21720	26362	188	1416	26	50270
2012	24941	24558	—	1216	28	51128
2013	23626	23011	—	1104	28	48134
2014	17282	27338	—	1455	9	46475
2015	22908	34979	374	1239	13	61706
TOTAL	358432	668160	4494	10937	219	1050299

Source: <http://chdtransport.gov.in/>, R & LA, Chandigarh

Details of Roadways Transport in U.T., Chandigarh

Chandigarh is well connected with the national capital by NH-21 which passes through the city. The four laning of the highway and the construction of a number of flyovers and bypasses has made it a fast travel corridor reducing travel time considerably. The city is also well connected to the major towns in Punjab, Haryana And Himachal Pradesh by road. The inter state bus terminal (ISBT) in sector 17 was the main ISBT for a number of decades till the recent construction of the ISBT in sector 43. The new ISBT provides interstate bus connectivity on all routes except for few long route buses plying from ISBT sector 17. The ISBT in Sector 17 will eventually be used as a local bus terminal.



MAP SHOWING REGIONAL CONNECTIVITY

Transport All State Buses			
Depot	ISBT Sector 17	ISBT Sector 43	Total No of Buses
Punjab	79	481	560
PRTC	29	278	307
AC Private Integral Buses	-	77	77
U.P	3	3	6
Rajasthan	14	2	16
Uttarakhand	23	9	32
J & K	-	5	5
HRTC	83	166	249
Haryana	472	146	618
Total	703	1167	1870



Source: General Manager C.T.U. Chandigarh

Transport Bus Stand				
Year	Bus Stand	Number of Buses	Number of Trips	Remark
2015	I.S.B.T. Sector 17 Long Route	30	40	CTU
2015	I.S.B.T. Sector 17 Long Route	830	829	Over all including CTU
2015	I.S.B.T. Sector 43 Long Route	93	103	CTU
2015	I.S.B.T. Sector 43 Long Route	1251	1288	Over all including CTU
2015	I.S.B.T. Sector 17	256	1641	Local Buses
2015	I.S.B.T. Sector 43	199	1424	Local Buses

Source: General Manager (T&S) Chandigarh Transport Undertaking, Chandigarh

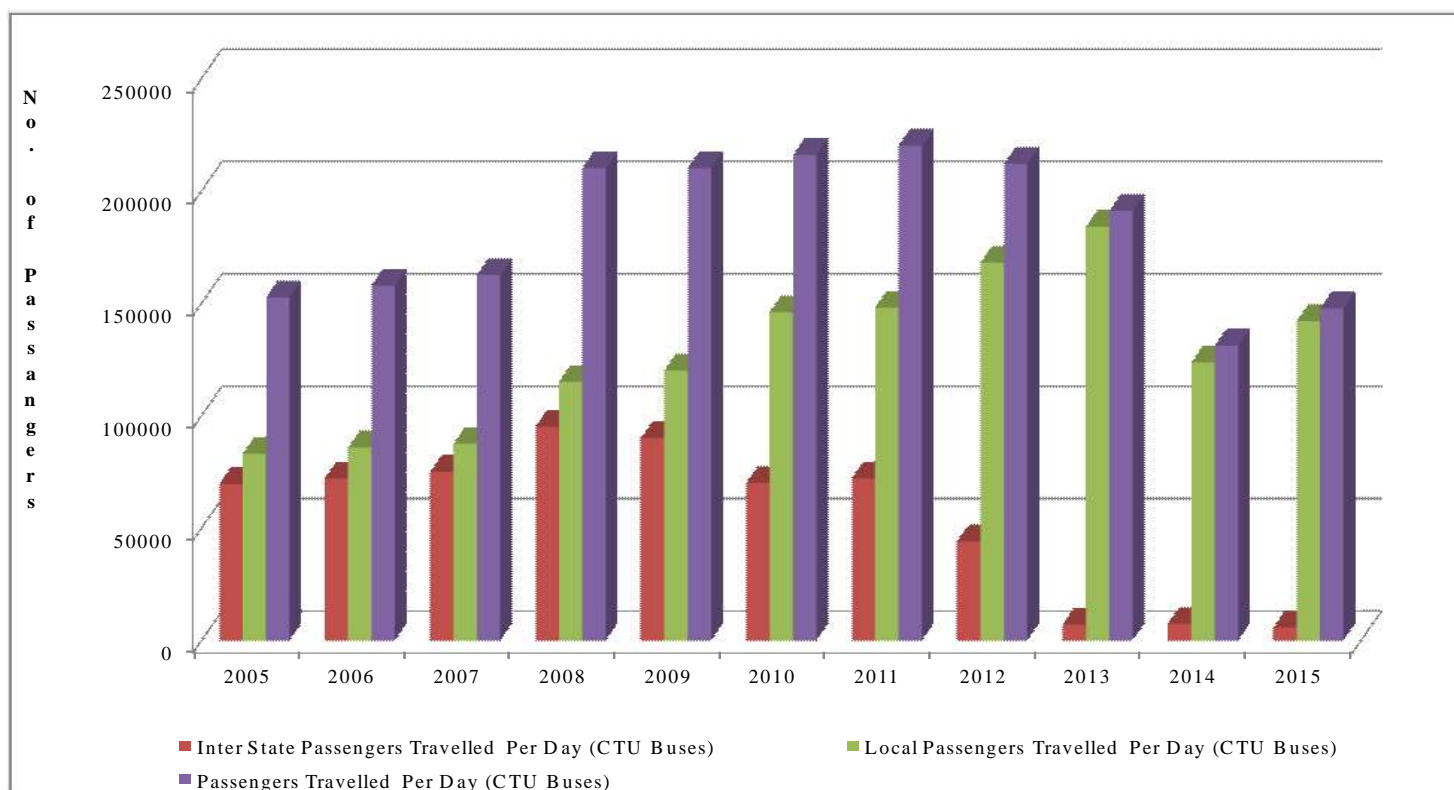
Changing travel patterns with time

The travel habits of the people are changing with time as depicted from the data obtained from Chandigarh Transport Undertaking (CTU). For increasing population and the daily commuters from the adjoining states, the CTU has been adding more n more buses regularly. The trend of the last decade shows very sharp increase in the buses of local transport from 286 in 2008 to 455 in 2015 and simultaneously the average trips of these buses has also been increased from 2282 to 3065 for fraying the daily commuters. This table shows the increasing burden of the population on transportation and traffic of the city.

Local Bus Transport CTU		
Year	Number of Buses	Number of Trips per Bus
2008	286	2282
2009	375	3564
2010	437	4056
2011	461	3115
2012	258	1487
2013	480	4677
2014	441	3778
2015	455	3065

Source: General Manager (T&S) Chandigarh Trans[port Undertaking,

The graph below describes the comparison of travel habits of passengers from different areas to the city, which can be connected to the increasing vehicular traffic in the Chandigarh. The trend shows that the passengers traveling through public transport from adjoining states including local areas also, are decreasing in the current years, which correlates with the selection of people to travel through personal vehicles. Specially the interstate passengers traveling per day through public transport are decreasing sharply as they prefer to travel by personal automobiles.



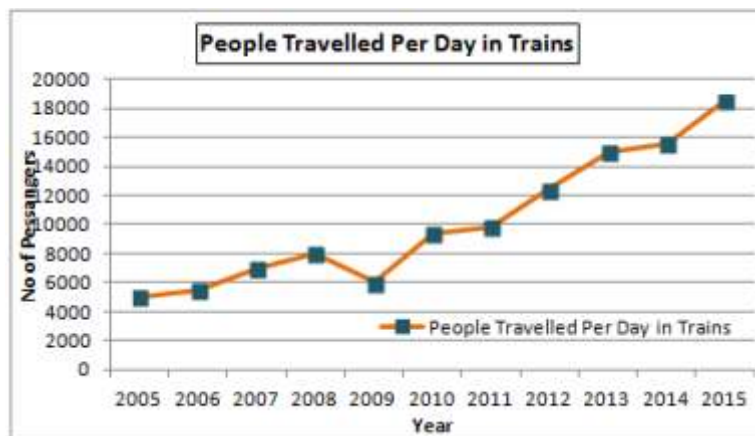
Source: Statistical Abstract Chandigarh

Rail Network Chandigarh

Year	Details of Rail Transport	No. Of Trains
2015	Trains on Coal	Nil
2015	Trains on Electricity	30 No.s
2015	Trains on Diesel	6 No.s
2015	Per Day Trains (Down)	36 No.s
2015	Per Day Trains (Up)	36 No.s
2015	Length of Railway Lines	8000 m
2015	No of Railway Stations	1 No.s

Source: Station Suptd. Northern Railway Chandigarh.

The rail connectivity to the city is through twin track railway lines from Delhi and Mumbai upto Ambala , a single track broad gauge thereafter upto Kalka and a narrow-gauge single track between Kalka and Shimla having heritage value. The recently built single track Chandigarh to Morinda railway line provides rail connectivity to Punjab. Besides serving the city, Chandigarh's railway station located in the north-eastern periphery of the city near the Industrial Area also serves the goods and the passenger traffic of the neighboring region including the towns of Panchkula and Mohali. With the increase in the frequency, number & comfort of trains, rail has become an important mode of transport.



Source: Station Suptd. Northern Railway Chandigarh.

Proposed METRO: M/s RITES has proposed a multi-modal mass rapid transport system covering the cities of Chandigarh, Panchkula and Mohali with 144.2 kms of BRTS and 64.3 kms of Metro to be implemented in two phases. Out of the total length of 64.38 kms of the metro, 44.8 kms. fell in the Chandigarh area, 6.5 kms in Haryana (Panchkula) and 13 kms in Punjab (Mohali). Subsequently it was decided to implement 25 kms. of the metro in the first phase. Out of the two corridors proposed one of 19 km connected the Sarangpur to Sector 15 Panchkula via Chandigarh Railway Station and the second connected the Capitol Complex to Sector 75 Mohali spanning 14 kms. On the request of the Punjab and Haryana Government, it was decided to extend the east- west corridor upto Mullanpur (Punjab) at the western end and upto Sector 20 in Panchkula (Haryana) on the eastern end.

Air Network Chandigarh (UT)

The city beautiful is well connected with other national cities/states as well as a few nations of the world through air transport. The first domestic airport of the city is located on the south eastern corner and built in the fifties. It remains under the Ministry of defence but used to serve as a domestic airport.

Presently, a new, fully air-conditioned terminal building equipped with modern facilities, has been started operation as the first international airport of the city with a capacity to accommodate 1600 passengers at a time and managed (Joint Venture) by Chandigarh International Airport Limited (CHIAL). Chandigarh airport is located at a distance of 13.6 km from Sector 17. The geographical coordinates of this airport are Latitude: 3° 4' 29" N and Longitude: 76° 47' 26" E. Elevation: 1012 ft. Other airports near Chandigarh airport are Shimla Airport (100 Km), Ludhiana Airport (110 Km), Amritsar Airport (246.6 km) and Kangra Airport (250 Km) by road. Chandigarh's airport today is among the best airports in the country in the category of B class cities.





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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 :



At the End of...

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Steps taken by UT and future perspectives for better transportation:

- ✍ Complete ban on the diesel based auto rickshaws in the city to check increasing problem of air and noise pollution
- ✍ Introduction of pollution free auto-rickshaws based on LPG and Electricity
- ✍ Strict regulation over the highly polluting/unmaintained vehicles and overloading of the public transport mainly auto rickshaw.
- ✍ New projects (under/over pass bridge) for the traffic bypass to be initiated for the hustle free and smooth travel in the city and to avoid excessive fuel burning by the traffic jams occurred due to traffic lights and roundabouts.
- ✍ Northern sectors of the city have been covered with well planned and maintained cycle tracks and the work is in full progress to cover the remaining sectors
- ✍ Modernization of the public transportation. All local buses are provided with the digital display to flash information of their ongoing routes and timings.



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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.

