

Draft Action Plan For Abatement of Pollution in Dera Baba Nanak Town



**Prepared by:- Pollution Control Board,
Regional Office,
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Action Plan for abatement of Pollution in Polluted Area of Dera Baba Nanak Town

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CHAPTER-1

1.0 GEOGRAPHICAL FEATURES

Geographic coordinates for **Dera Baba Nanak Town**



Dera Baba Nanak

Location in Punjab, India

Coordinates: **32.0322° N, 75.0304° E**

Country



[India](#)

State

[Punjab](#)

District

[Gurdaspur](#)

Elevation

249 m (817 ft)

Population (2011)

• **Town**

6,394

Languages

• **Official**

[Punjabi](#)

Time zone

[IST \(UTC+5:30\)](#)

PIN

143604

Telephone code

01871

Vehicle registration

PB 06

Distance from Amritsar

51 kilometres

Distance from Gurdaspur

39 kilometres

Distance from Batala

30 kilometres

1.1 Location

Dera Baba Nanak is a small town located near the Indo-Pak border in district Gurdaspur in State of Punjab. It is a Sub Division of District-Gurdaspur. It is a Municipal Council and is located about 39 km from Gurdaspur, the headquarters of the district.

As of 2011 India census, Dera Baba Nanak had a population of 6394. Males constitute 52% of the population and females 48%. Dera Baba Nanak has an average literacy rate of 75%, higher than the national average of 59.5%: male literacy is 78%, and female literacy is 72%. In Dera Baba Nanak 12% of the population is under 6 years of age.

Dera Baba Nanak Town is situated only 1 km from India-Pakistan border and the historical Gurdwara Kartarpur Sahib, which is located in Pakistan can be seen from the Border with naked eyes which is at a distance of about 4-5 kms from the Indian Boarder. Two famous Gurudwara at Dera Baba Nanak are Sri Darbar Sahib and Sri Chola Sahib. Dera Baba Nanak, one of the most sacred places of the Sikhs, is situated on the banks of river Ravi. Shri Guru Nanak Dev Ji, the first Sikh Guru, settled and died near the village Pakhoke, opposite to the present town and which was later on named as Kartarpur Sahib. The Bedies, descendants of Shri Guru Nanak Dev Ji built a new town and named it Dera Baba Nanak after their great ancestor. The town has a number of Sikh temples. Pilgrims come to this holy town in large numbers. Dera Baba Nanak was made the headquarter of newly created Tehsil of Dera Baba Nanak and it is a historical town and has many lanes and houses that have been preserved since the time of Shri Guru Nanak Dev Ji.

Gurudwara Sri Darbar Sahib built in commemoration of Sri Guru Nanak Dev Ji. He came here after his first Udasi (tour) on December 1515 AD to see the members of his family. His wife Mata Sulakhni Ji and His two sons Baba Sri Chand Ji and Baba Lakhmi Chand Ji had come to stay here in their maternal home at Village-Pakho-Ke-Randhawa, Near Dera Baba Nanak, where Lala Mool Raj, father-in-law of Shri Guru Nanak Dev Ji was

working as Patwari. At that time this village was situated across the river Ravi in Pakistan.

1.1.2 Topography

All the Tehsils of the district namely Gurdaspur, Batala and Dera Baba Nanak are plain and similar to the rest of the plains in structure. The land scape of the district has varied topography comprising undulating plan, the flood plains of the Ravi and the Beas and the up land plain.

To its south lies an area of about 128 km² which is highly dissected and is an undulating plain. Its elevation ranges from about 305 to 381 meters above sea level. It is traversed by a number of choas and has an undulating topography.

The flood plains of the Ravi and the Beas are separated from the up land plain by sharp river cut bluffs. They are low lying, with slightly uneven topography. Sand dominates in the soil structure of the flood plains, but it diminishes in both quantity and courseness in the upland plain. The up land plain covers a large part of the district particularly. Its elevation ranges from about 305 meters above sea level in the north-east to about 213 meters above sea level in the south west, with a gentle gradient of about 1 meter in 1.6 km. This is the most important physiographic unit in the district.

Tehsil						

1.1.3 Climate

There are mainly two seasons i.e. summer and winter. The summer season falls between the months of April to July and the winter November to March. In summer season the temperature touches 44°C or even sometimes crosses it. June is the hottest month and January is the coldest one. Mostly the rain falls in the month of July. The winter rains are

experienced during January and February. The dust storm occurs in the month of May and June.

1.1.4 Rainfall

The south-west monsoon generally arrives in the first week of July and continue up to the end of August. 70% of the rainfall occurs during this period.

1.2 MAJOR WATER BODIES AROUND DERA BABA NANAK TOWN

River:-There are only one river, i.e. River Ravi flowing in the catchment area of the Dera Baba Nanak Town.

1.2.1 Flora & Fauna

The district includes both hilly tracts and the plains. The vegetation is varied depending on the soil, topography and elevation. There is considerable biotic influence, the human agency being particularly conspicuous is bringing about numerous changes in the vegetation. Many changes have occurred in the forest area since the publication of the last Gazetteer in 1914. At present, the Reserved Forests occupy an area of 123.84 hectares. The Protected Forests include the Block Forests in Shahpur Kandi Range (11,270.34 hectares); canal strips (2,258.15 hectares); railway strips (874.93 hectares) ; road strips (534.65 hectares) and un-classed forests (430.30 hectares). The flora of the district may be considered under the two main divisions, viz. hilly tracts and the plains. There are **few notable wild animals in the district. Those found are : blue bull (nilgai) in the jungles between the Beas and the canal north of Gurdaspur and the south-east of the Pathankot Tehsil, panther (cheeta) also in the same tract as well as in the hill circle of the Pathankot Tehsil, wild boar (suar) in the Kahnuwan swamp, jackal (gidar), hog deer (para), barking deer (kakar), hare (khargosh), monkey (Bandar), grey ape (langur), etc.**

AIR QUALITY INDEX ACTION PLAN OF DERA BABA NANAK TOWN

1. **Name of the city** : Dera Baba Nanak.
2. **Air Pollution concern** : PM10 & Nox
3. **Air pollution levels** : Range of 24-hourly average concentration values of PM10, SO2 & NOx for the period 2016-17.
4. **Months with high air pollution levels:** During paddy & wheat harvesting season i.e October & April.
5. **Action plan** :

Source group**	Action	Implementation period(short/mid/Long-terms)	Time target for implementation *	Responsible agency(ies)	Any other information
Vehicles	1. Launch campaign against pollution vehicles for ensuring better air quality in the area.	Short Term	Continuous and regular activity	RTA, Traffic Police	As for the Punjab Pollution Control Board is concerned, Pollution check centers are being monitored from time to time by the officers of the board and action is being recommended to State Transport Authority , if any pollution check center is found not proper conducting emission sampling of vehicles.

	2. Public awareness campaign should be carried out for air pollution control, vehicles maintenance, minimizing use of personal vehicle, vehicle, vehicle pooling, etc.	Mid Term	Continuous and regular activity	STA, Traffic Police	
	3. Prevent parking of vehicles at non designated areas.	Short Term	Continuous and regular activity	Municipal Council & Traffic Police	
	4. Initiate steps for retrofitting of particulate filter in diesel vehicles, when BS-V fuels are available.	Mid Term		RTA	
	5. Prepare action plan to check fuel adulteration and random monitoring of fuel quality data.	Short Term	Continuous and regular activity	Deptt. Of Food & Civil Supplies.	
	6. Prepare Plan for widening of road and improvement of Infrastructure for decongestion of road.	Long Term	Continuous and regular activity	Public works Deptt, (PWD), & Municipal Council.	
	7.Prepare Plan for construction of expressways /bypass to avoid congestion due to non-destined vehicles.	Long Term	---	Public works Deptt,	
	8. Install weigh in motion bridges at the borders of cities/towns and States to prevent overloading of vehicles.	Long Term	Continuous and regular activity	RTA, Traffic Police	
	9. Synchronize traffic movements/introduce	Long Term	Continuous and	Traffic Police	

	intelligent traffic systems for lane-driving.		regular activity		
	10.Steps for promoting battery operated vehicles.	Long Term	--	State Transport Authority (STA)	Policy matter
	11. Installation of remote censor based PUC system.	Long Term	Continuous and regular activity	State Transport Authority (STA)/RTA	Policy matter
Road Dust	1. Preparation plan for green buffers along the traffic corridors.	Mid Term	Regular activity	PWD, & Municipal Council	
	2. Maintain potholes free roads for flow of traffic	Mid Term	Regular activity	PWD,& Municipal Council	
	3.Greening of open areas, gardens, community places, schools and housing societies	Mid Term	Regular activity	Municipal Council/ Forest department/ Deptt. Of Agriculture/ PWD	
	4. Blacktopping metalled road including pavement of road shoulders.	Mid Term	Regular activity	PWD, & Municipal Council	
	5. Road design improvement	Long Term	---	PWD & Municipal Council	
	6. Introduce water fountain at major traffic intersection wherever feasible	Mid Term	---	Municipal Council	
	7. Wall to wall stabilization	Mid Term	Continuous activity	PWD & Municipal Council	--
Biomass and	1.Launch extensive drive against open burning of bio-mass,	Short Term	Continuous and regular activity	Distt. Administration, Police,	--

garbage burning	crop residue, garbage, leaves,			Agriculture department, Municipal Council and PPCB	
	2. Regular check and control of burning of municipal solid waste.	Short Term	Continuous and regular activity	Punjab Pollution Control Board, & Municipal Council	Regular inspections are being carried out by the PPCB from time to time to check and control of open burning of municipal solid waste in different areas of the city. In the past where the MSW was found under fire, fine has been imposed on the M.C. in light of NGT order dated 10.12.2015.
	3. Proper collection of horticulture waste (bio-mass) and its disposal following compositing-cum- gardening.	Short Term	Continuous and regular activity	Municipal Council	--
	4. Construction of advanced waste management Site.	Long Term	---	Municipal Council	Policy matter
Industries	1. Identification of brick kilns and their regular monitoring including use of designated fuel and closure of unauthorized units.	Mid Term	Continuous as regular activity	Punjab Pollution Control Board	The Punjab Pollution Control Board are carrying regular visits to the brick kilns to check the compliance of consent conditions and

					pursuing them to shift to high draft technology upto 31.03.2019 as per CPCB directions.
	2. Conversion of natural draft brick kilns to induced draft.	Long Term	425 Days	Punjab Pollution Control Board	To pursue them to shift to high draft technology upto 31/03/2019 as per CPCB directions.
	3. Action against non-complying industrial units.	--	--	Punjab Pollution Control Board	There is no industrial activity in the area of Dera Baba Nanak Town.
	4. Promoting cleaner production in industries.	--	--	Punjab Pollution Control Board and department of industries	There is no industrial activity in the area of Dera Baba Nanak Town.
	5. Fugitive emission control	--	--	Punjab Pollution Control Board	There is no industrial activity in the area of Dera Baba Nanak Town.
	6. Installation/upgradation of air pollution control system	--	--	Punjab Pollution Control Board	There is no industrial activity in the area of Dera Baba Nanak Town.
Construction and Demolition	1. Enforcement of Construction and Demolition waste rules	Mid Term	Continuous and regular activity	Municipal Council/ PWD	In Dera Baba Nanak area, construction activity being carried out which is being checked by the

activities					Municipal Council to ensure the compliance of these rules.
	2. Control measures for fugitive emissions from material handling-conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units.	Mid Term	Continuous and regular activity	Municipal Council/ PWD	-do-
	3. Ensure Carriage of construction material in closed / covered vessels.	Mid Term	Continuous and regular activity	Municipal Council/ PWD	-do-
Other Steps	1. Air Quality Index to be calculated and disseminated to the people through web site and other media.	Mid Term	Continuous and regular activity	Punjab Pollution Control Board	As per air quality being monitored by the PPCB at one station at (C-Pyte) Dera Baba Nanak for air quality index.
	2. Engage with concerned authorities on continual basis for maximizing coverage of LPG /PNG for domestic and commercial cooking with target of 100% coverage.	Long Term	---	District Administration and Municipal Council	Policy matter
	3. Monitoring of DG sets and action against violations.	Sort Term	Continuous and regular activity	Punjab Pollution Control Board/ District Administration &	

				Municipal Council	
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6. **Monitoring mechanism for implementation**

Institutional arrangement for implementation of action plan

An implementation committee shall be formed as follow:-

- Deputy Commissioner, Gurdaspur – Chairman
- SSP, Department of Police – Member
- SDM, Dera Baba Nanak- Member
- Punjab Pollution Control Board – Convener.
- Executive Officer, Municipal Council, Dera Baba Nanak – Member
- Department of PWD and B & R– Member
- Department of Transport – Member
- GM, DIC – Member
- Department of Food & Civil Supplies – Member
- Department of Forest – Member