

## AIR ACTION PLAN FOR THE GANDHINAGAR CITY

Sr. No.	Issue	Proposed Action (Pl. note: The following are some of the action points that have been listed by some of the state governments, or discussed in the consultation meetings or EPCA has considered. This is not an exhaustive list. All proposed action points must be detailed out as much as possible)	Implementing Agency	Target date for completion of ongoing activity and that of proposed activity and planned improvements	Status	REMARKS
1.	<b>VEHICULAR POLLUTION</b>					
	<b>New Vehicles</b>  Roadmap for improving vehicle technology (Vehicle-category-wise cars (diesel and petrol), two-wheelers, three-wheelers, medium duty vehicles, heavy duty vehicles truck and buses, any other)	<b>The Current status</b>  Status of implementation of Bharat II norms  Proposed Plan and deadline i. Introduction of Bharat-III norms ii. Introduction of EURO IV norms iii. Implementation of Bharat stage-II norms for 2 and 3 Wheelers iv. Introduction of emission warranty for vehicles	COT, Transport Dept.  COT, Transport Dept.	The dead line will followed as notified by GOI	Registration of only vehicles that are Bharat -II is not made compulsory in the state of Gujarat.	
2	<b>Improvement in Fuel Quality</b>	<b>Current Status</b> <ul style="list-style-type: none"> <li>Reduction of Sulphur content in diesel and petrol to 0.05% and</li> </ul>	COT, Transport Dept, F C&C A Dept.		Ethanol blend petrol was launched in Gujarat in year 2003	This is followed by fuel supplier mfg companies of



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	and diesel vehicles)	<p>all categories of vehicles planned.</p> <p>Institutional systems put in place or planned for rigorous auditing and inspection of these centers.</p> <p>On –road inspection of vehicles planned and periodicity and coverage.</p>	<p>COT/ Transport Dept</p> <p>--</p>	<p>System for auditing and inspection of these centers will be introduced with third party help.</p> <p>--</p>	<p>A team of civil supply office, A.R.T.O., Police inspector, Rep. of G.P.C.B., N.G.O., and Oil company is formed and headed by the civil supply officer.</p> <p>Surprise checking is carried out and on 26/2/2003 and 6/1/2004, 69 &amp; 94 nos. of vehicles were checked by a team of A.R.T.O., POLICE DEPT. and G.P.C.B.</p>	
iii.	Centralized Inspection & Maintenance system	Provide a phase-in plan of improved centralized inspection and maintenance programmed to replace the current PUC system. Prioritize the vehicle segments like commercial vehicles that would be first, brought under the advanced inspection system.	COT/Transport Department	Existing system of Inspection & Maintenance will be rigorously followed. It is proposed to direct all Fuel and Automobile dealers to have inspection and maintenance system to ensure PUC compliance.	On going process	

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iv.	Bypassing transit traffic	Plans for the following:  a. Restriction on plying of interstate/intercity buses in city.  b. Restriction of entry of non-destined commercial vehicles in the city	Office of Police commissioner, GUDA and Capital Project Department.	The problem of interstate / intercity buses in city is not much.  There is no traffic congestion in the city at present.	--	
v.	Proportioning of 2T oil for two stroke engines	a. Installation of premix oil dispensers for 2-stroke 2 and 3 wheelers.  b. Measures to ban sale of loose 2T oil.	Food, Civil Supplies & Consumers Affairs (FC & CA) Department,  Oil Companies	On going process.  --	All the six petrol pump in city are using pre-mix 2t oil.	
4	<b>Adulteration</b>	a. Setting up of facility for independent fuel testing in the city.	Food, Civil Supplies & Consumers Affairs (FC & CA) Department, Traffic Police,	--	a. A team of civil supply officer, A.R.T.O., Police Inspector, rep. of G.P.C.B., rep. of two N.G.O.'s., rep. of Oil Companies headed	

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		<p>b. Improvements planned for more effective monitoring of retail outlets, depots and tankers etc.</p> <p>c. Status of implementation of Naphtha, Kerosene and solvents control order. Propose how to make the implementation effective.</p> <p>d Any plans for public broadcast of defaulting petrol pump.</p> <p>e. Plans to make penalty more stringent to act as strong deterrent.</p>	and COT, Forensic Science Lab(FSL)	<p>On going process</p> <p>d. The existing system will be continued</p> <p>e. At present there is no plan to make penalty more stringent</p>	<p>by civil supply officer is formed.</p> <p>b. In year 2003 one petrol pump namely Shantinath petrol pump at: chiloda, Near Gandhinagar city was found defaulter.</p> <p>c. At present there is no plan for effective implementation of control order.</p> <p>d. In year 2003 one petrol pump namely Shantinath petrol pump at: chiloda, Near Gandhinagar city was found defaulter.</p> <p>e. The Transport Department has already started the</p>	

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		<p>. Rationalization of state taxes on imported kerosene and other solvents/fuels etc to narrow the price gap.</p> <p>g. Any other measure like electronic marker system etc.</p>		<p>---</p> <p>---</p>	<p>drive to check the fuel adulteration. From 1/1/03 to 31/12/03, 29 Auto rickshaw were detained by RTO - and fine of Rs. 40,830 were recovered from defaulters.</p> <p>f. Recently there was hike in the price of kerosene, which has reduced the price gap. The permission to the oil companies only for sale of imported kerosene is under consideration.</p> <p>g. At present there is no electronic marker system.</p>	
<b>5</b>	<b>Alternative fuels</b>					
i.	<b>Introduction of cleaner fuel(s)</b>	Indicate the priority vehicles segments like three wheelers, small commercial	GSPC, E&P Dept. GUDA/ Capital	The GSPC has issued the tender for the pipeline of CNG conveyance and will be	•A proposal is under consideration to enact the Draft	

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	<b>LPG/CNG</b>	<p>vehicles, buses etc that would be targeted for phased introduction of alternative fuels Give a schedule of implementation.</p> <p>Based on this plan estimate the demand for cleaner fuel over the time frame for implementation.</p> <p>Provide plan and schedule for setting up of infrastructure facility for dispensing and (compressing) of gas.</p> <p>Number of stations with capacities planned. If feasibility plans are under preparation report its results and indicate a tight time frame for its completion.</p>	Project Department/ Transport Dept./ UD & UH Dept./ COT/ F C & C A Dept Distributors	<p>completed in December ' 2004.</p> <p>The GSPC has also proposed conversion of different types of vehicles to CNG as fuel, in a phased manner.</p>	<p>Gujarat Motor Vehicles (use of fuel) Bill 2003 to facilitate the compulsory switchover of certain category of vehicles on cleaner fuel.</p> <ul style="list-style-type: none"> <li>•Distribution network for CNG in the city of Gandhinagar will be done by BPCL.</li> <li>•Plan for conversion of vehicles to CNG compatibility is being workout.</li> <li>•At present as informed by the GSPC they will used the filling station of BPCL for the distribution of CNG and 3 Nos. of station will be come upto December 2004.Land identification and acquisition is completed 3 locations are 1. Behind Kalpataru Petrol Pump, Sector</li> </ul>	

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					-21. NR. Gha-5, Behind Petrol Pump, Setor-16. 3. B/H Pathikkashram S.T. depott.	
ii.	<b>Institutional plans for implementation of gaseous fuel programmes</b>	Provide the institutional plan for specially designed <b>safety inspection programme for CNG and LPG vehicles</b> and frequency of inspection. How capacity and skills will be created in the inspection centers for safety inspection? Independent auditing and supervision of these centers.  Authorization of conversion workshop and Fitment of kits etc.	GSPC, E&P Dept. Transport Dept./ FC & CA dept UD & UH Dept./ COT/ Distributors	--  GSPC had issued advertisement for registration of duly certified conversion kit suppliers to ensure the availability of proper kits. These conversion kits suppliers are required to have adequate nos. of authorized workshops with skilled	Draft Gujarat Motor Vehicles (use of fuel) Bill 2003 under consideration.  --	

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		<p>Fiscal measures to encourage replacement of old vehicles with new vehicles on gaseous fuels.</p> <p>Regulatory and fiscal approach to stop fitment of unauthorized conversion kits. (Pl. note : Simple conversion of old diesel engines to gaseous fuels should not be allowed. Diesel vehicles should be replaced with new dedicated gaseous fuel vehicles)</p>		<p>manpower for retrofitting of conversion kits. 12 applications are received. The process of registration is going on.</p> <p>At present fiscal measures do not exist.</p> <p>--</p>	<p>Draft Gujarat Motor Vehicles clean fuel act 2003 is drafted by Energy &amp; Petroleum Dept. which will be moved to legislative assembly.</p>	
iii.	<b>Ethanol blend petrol and bio fuel programme if</b>		FC & CA Dept	--	All petrol depots has been given the permission for blending ethanol	

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	any				from July, 2003.	
<b>6.</b>	<b>Traffic and transport management</b>					
i.		<p><b>Public transport</b> Current status of public transport in terms of number of buses, load factor etc. and proposed plans to augment the fleet. Plans to move public transport to run on clean fuels. Any other form of public transport planned. Metro, bus rapid transit or any other. Plan, scale and schedule of implementation.</p> <p><b>Transport Policy</b> Formulation of transport policy to induce a mode shift from private to public modes of transport and implementation including fiscal measures. Formulation and implementation of parking policy.</p> <p>Other measures to reduce traffic congestion:</p>	<ul style="list-style-type: none"> <li>• GSRTC</li> <li>• Police Commissioner</li> <li>• COT</li> <li>• Transport Dept.</li> </ul> <p>State Government</p>	<p>Privatization to run buses only on LPG/CNG or Bharat – II compliant in a phased manner.</p> <p>Not applicable at present.</p> <p>No policy as of now.</p> <p>Shifting of bus terminals on to the outskirts of the city for</p>	<p>No. of buses(point bus): 85</p> <p>The measures for easing traffic</p>	

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		<p>e.g. Planning and construction of by-pass roads.</p> <p>Removal of encroachment of roads, promote non-motorized transport, pedestrians alone etc.</p> <p>Traffic signaling system</p> <p>Penalties for traffic rule violations</p> <p>Any other</p>	<p>Police Commissioner / Home Department/ GUDA/ Capital Project Department</p>	<p>restricting movement of large no of buses to central bus station is under consideration</p> <p>Instruction is given to provide a walkway on the both the sides of the roads.</p>	<p>congestion include diversion of Heavy vehicles from the city not permitting cattle driven vehicles during pick hours, removal of stray cattle and encroachment from road and improving road conditions.</p>	
7	<b>Fiscal measures</b>	<p>Fiscal measures to discourage use of older and polluting vehicles (e.g. Bangalore has imposed green tax on old vehicles etc)</p> <p>Any other fiscal measure to control traffic congestion</p>	GOG	<p><u>Proposed activity</u> Government of Gujarat would study the Bangalore pattern.</p>	<p>There is no traffic congestion in the city at present.</p>	
8	<b>Industrial pollution control</b>					
		<p>a. Installation of adequate pollution control measures in industries</p> <p>b. Feasibility of alternate cleaner fuels and implementation.</p>	<p>Individual Industries Association/ GPCB</p>	<p>Continuing process</p> <p>This will be considered availability of clean fuel and economic viability.</p>	<p>Consent under the Air Act 81 is granted if industries have provided adequate APC measures and the quality of</p>	

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		c. Monitoring programme of industries.			<p>emission as per the specified norms.</p> <p>As per the policy, only Non polluting, Non chemical industries are allowed.</p> <p>However, there are 13 Nos. of units having moderate air pollution potential. They are regularly monitored at every quarter.</p> <p>A coal based TPS is also existing in the city and separate Action Plan is prepared by TPS under the Gandhinagar City Air Action Plan which is also monitored by task force headed by the District Collector.</p>	
9.	<b>Thermal Power Plants</b>					
		a. Use of washed/beneficiated coal for coal based TPP	Gujarat Electricity Board / GPCB	Ongoing activity and regularly monitored	a. TPS is using washed coal/imported coal/	

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		<p>coal for coal based TPP</p> <p>b. Installation of bag filter with ESP</p> <p>c. Schemes for utilization of fly ash</p>	/ GPCB		<p>coal/imported coal/ indigenous coal presently in the approximate proportion of 20 to 80 %, 20 to 30 % and 10 to 15 % as per the availability and to maintain the required ash percentage.</p> <p>b. ESPs are installed and efficiency are checked regularly.</p> <p>c. Fly ash disposal plan is prepared by TPS in the year 2003-04, Avg. utilization was 27.04% and up to Tune'2004 it is 29.64%. Fly Ash is utilized by cement mfg. Companies, for mfg. bricks, hollow/ solid blocks, paving slabs, cable tiles etc. and</p>	

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		d. Identification of new sites for fly ash disposal and methods of utilization			remaining goes to ash pond.  d. One new fly ash pond is constructed.	
10	<b>Strengthening of air quality monitoring network</b>	Plans to strengthen the air quality monitoring e.g. a. Plans to increase number of monitoring stations, improving frequency of monitoring etc. b. Quality control of air quality data c. Monitoring of additional pollutants d. Installation of automatic-monitoring stations	GPCB/GIDC/GUDA/ Capital Project Department.		At present Ambient Air Monitoring is carried out at 2 locations.  AAQ monitoring is also monitored by GEB at different locations around TPS within 1 km, 2 km, 5 km, radius under action plan.	
II		Plans to develop air pollution inventory for the city Indicate current efforts and new studies planned with tight deadline.	GPCB in consultation with CPCB	The Board will seek the help of CPCB for this purpose	--	
III		Plans to sponsor studies on health impact of air pollution in the city.	GPCB NIOH	NIOH has already undertaken this study.	--	

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11.	Other sources of pollution					
I	Hospital incinerators		Common incineration facility providers and individual hospitals	-	There is only one individual incinerator for incineration of bio-medical wastes	
II	Generator sets	a. Plan to control numbers  b. Monitoring the use of cleaner fuels  c. Enforcement of emissions standards for generator sets	GPCB	-	a. Supply of electricity is regular and so DG sets are not in use bigway. b&c. Emission standards are monitored as per CPCB notification.	
III	Biomass burning	Ban open burning of biomass and plan for effective control and finding alternative ways like composting etc	GUDA/ Capital Project Department/ GIDC	Ongoing process	1. Door to Door garbage collection started . 2. GUDA/GPC should adhere to notification of MSW & BMW with time frame land there in.	
12	Supervisory	Single nodal agency to	Task Force	--	Task force is	

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	<b>powers and coordination</b>	supervise, monitor and coordinate and report on the progress of implementation of the action plan when it is finalized	headed by the G.P.C.B.		constituted under the chairman ship of Dist. Collector. Review meeting is held by Dist. Collector regularly.	
13	<b>Plantations</b>	Targets and implementation plan for : a Tree plantation (to ensure high survival rate) b Green area development – give targets	GIDC/ GUDA/ Capital Project Department/ Industries Associations/ Forest Department	The GUDA / Capital Project Department made it compulsory to plant minimum two trees in every permission of construction	Some Industries Associations have carried out plantation within their estates. Industrial units and Associations have been advised to plant more trees. This will be followed up.	<u>In the year 2004-2005</u> 3,20,000 nos of trees are planted in land area 756 hectores 9996 nos. trees are planted across Narmada canal of 6 hectores area.