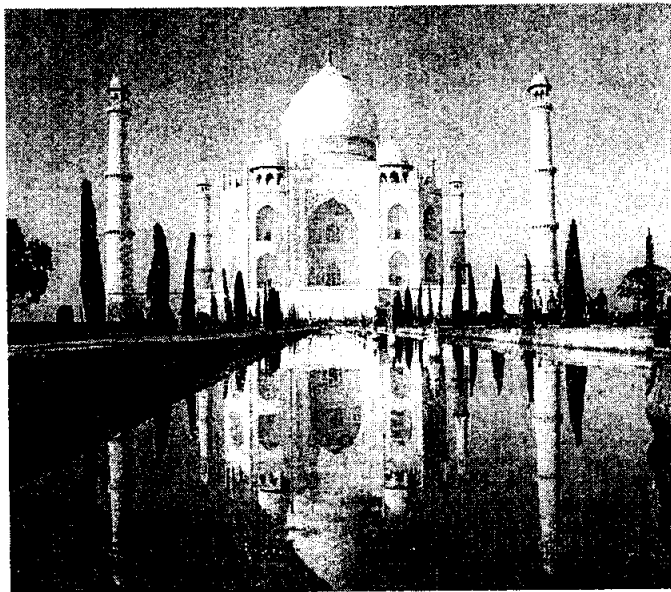


COMPREHENSIVE ACTION PLAN FOR CRITICALLY POLLUTED INDUSTRIAL CLUSTERS OF AGRA



**U.P. POLLUTION CONTROL BOARD
PICUP BHAWAN, GOMTI NAGAR, LUCKNOW
January, 2015**

Tele Fax: 0522-2720745

E-Mail: ceo4@uppcb.com

Website: www.uppcb.com

7.4 Utilization of MSW inert by gas based brick kilns

At present, 750 TPD MSW treatment facility at Kuberpur Agra has been installed. But since one year the treatment facility is not operational. Total quantity collected waste of 770 TPD is disposed by land filling.

7.5 Co-processing of wastes in cement industries

Not applicable

8. Public awareness and training Programmes

UPPCB Agra and Nagar Nigam are working together to control and use of polythene. As on date, regional offices of state board also conduct competitions, seminars, public presentation in schools and other significant places on Environment Day every year to generate awareness about the environmental problems and their solutions. However, it is proposed that such activities should be carried out more frequently; in order to develop a comprehensive training and awareness program schedule at regional level Directorate of Environment should be made a stake holder in such activities and conduct public awareness programs simultaneously at all regional offices.

9. Overall impact of installation/commissioning of pollution control equipments/measures on the CEPI score

State Pollution has proposed steps in that will have a positive impact on its CEPI score and bring it down considerably. List of steps proposed/taken with regard to water, air and land pollution that are expected to have a positive impact on CEPI have been enlisted in the table below. Further, the overall quantitative change in the CEPI score post installation/commissioning of pollution control equipments/measures taken under Action plan in water, air and land environment have also been presented in the tables below.

Impacts of Action Plan of water

S.No.	Critical Parameter	Proposed Action	Implementing Agency & Time Frame	Predicted Impact On CEPI																						
WATER POLLUTION																										
1	Industrial Pollution	Proper Vigilance and monitoring/ action against the industry are in progress by the UPPCB. All industry is of small scale and installed ETP.	UPPCB Every three month	CPPI will be reduced																						
2	Ground Water Pollution	Safety and Preventive measures to control such as rain water harvesting regarding dilution /Betterment of ground water strata is necessary. ADA has compulsory in their NOC for the development of rainwater harvesting system in residential projects.	Ground Water Source Department and minor irrigation & ADA	CPPI will be reduced																						
3	Infrastructural facilities in industrial areas	Strengthening of infrastructural facilities such as Roads, Power/Water Supply & regular cleaning of internal drainage Monitoring of NOC/environmental clearance and setting of required E.T.P	ADA/UPSIDC/ Nagar Nigam & UPPCL cleaning every month Individual Builders & UPPCB	CPPI will be reduced																						
AIR POLLUTION																										
1.	Industrial Pollution	The Sulphur dioxide (SO ₂) and Oxides of Nitrogen (NO _x) in Gaseous emissions may affect the Taj Mahal. But by stopping Coal & Coke in 20 Km radial distance of Taj & use of C.N.G by the industries & vechiles the level of SO ₂ & NO _x has been reduced substantially and below the standards. Central Pollution Control Board, Project office, Agra is monitoring the ambient air quality at sensitive Taj Mahal since 2002 and other places of city.	CPCB/UPPCB	CPPI will be reduced																						
2.	Introduction of Cleaner fuel like CNG/LPG	<table border="1"> <thead> <tr> <th colspan="7">CURRENT CNG SUPPLY STATUS</th> </tr> <tr> <th>Station Name</th> <th>TP Na gar</th> <th>Mod ern Filling</th> <th>Bha gwa ti Filling</th> <th>Vyo m Pre miu</th> <th>Taj Naga ri Moth</th> <th>Ya mu na Aut</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		CURRENT CNG SUPPLY STATUS							Station Name	TP Na gar	Mod ern Filling	Bha gwa ti Filling	Vyo m Pre miu	Taj Naga ri Moth	Ya mu na Aut								GAIL/Oil Companies / Transport Dept.	CPPI will be reduced
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		Station	ng Station	m Fuel	er Station	omobile
Station Type	Mother Station	Daughter Booster Station	Daughter Booster Station	On Line Station	Mother Station	On Line Station
CNG Compressors	2	1	1	1	3	1
Compression Capacity (kg/day)	32,000	450 SCM H	500 SCM H	1600	33,000	9000
Booster Compressors	NIL	1	1	NIL	NIL	NIL
CNG Auto/ Car Dispensers	3	1	1	2	4	1
Auto/ Car Filling Points	6	2	2	4	8	2
CNG Bus Dispensers	2	NIL	NIL	1	1	NIL
Bus Filling Point	2	NIL	NIL	1	1	NIL
LCV Filling Point	1	NIL	NIL	NIL	1	NIL
Average Dispensing (kg/day)	13000	3500	3500	9000	8000	3000
<ul style="list-style-type: none"> • Presently the compression capacity available at Agra is 90000 Kg/day. However, the average sale is 40000 Kg/Day. Thus, conversion of private vehicle in to CNG may be promoted for reducing pollution at Agra. • OLS at M/s Yamuna Automobiles , Jeoni Mandi has been commissioned on 21.03.14 • For promoting usage of industrial PNG cheaper natural gas may be provide by Govt. of India. 						

3.	Installation of AAQM Stations (Continuous)	UPPCB has established an Automatic Ambient Air Quality Monitoring (AAQM) Station at Nagar Nigam Building, Agra. AAQM Station is managed and operated by M/s Envirotech Ltd. and the results are being displayed on 24 x 7 bases.	UPPCB	CPPI will be reduced
4.	Display of AAQM data.	The results are being displayed on 24 x 7 bases.	UPPCB	CPPI will be reduced
5.	The vehicles in this area shall use clean fuel as LPG/CNG	<ul style="list-style-type: none"> • Restriction of plying of Petrol, diesel driven vehicles around 500 meter of Taj Mahal. • Plying of Battery operated Buses and other vehicles within 500 meter of Taj also in Agra City. • Fixation of age for public and commercial vehicles. • No new registration of age barred vehicles. • Distric administration and RTO has taken step to prohibited run tempo on MG road. 	RTO	CPPI will be reduced
6.	Development of Green Belt & Garden	Plantation is satisfactory	Forest Deptt./ ADA, Agra	CPPI will be reduced
7.	Repairing of Internal roads & proper maintenance of same	-	ADA/PWD/Nagar Nigam	CPPI will be reduced
8.	Monitoring of D.G Sets	<p>Conversion of fuel is needed. Old D.G. Sets require the canopy/ aquastic enclosure to reduce sound and air pollution.</p> <p>a. Inventory of old D.G. Sets in industrial area b. Installation of canopy & scrubber</p>	UPPCB/U.P Power Corporation Ltd.	CPPI will be reduced
9.	Illegal Set up of Industrial Activities	<ul style="list-style-type: none"> • As per directions of TTZ Authority, ADA had engaged M/s Ramky Enviro Engineers., New Delhi as consultant. A pre feasibility report has been submitted for Shifting of these industries from the city area to appropriate sites outside the 	ADA/UPSIDC	CPPI will be reduced

		<p>city.</p> <ul style="list-style-type: none"> • ADA & UPSIDC have been again instructed for initiating the effective measures for shifting of the same by TTZ Authority in its latest meeting. • Recently action takend by District Administrationtly, few petha units have been shifted from the city to Kalindi Vihar petha industries. 		
HAZARDOUS WASTE				
1.	Proper Storage & Disposal of Hazardous Waste & Solid Waste.	<ul style="list-style-type: none"> • Strict vigilance & monitoring will be maintained for compliance of the provisions of Hazardous Waste Rules, 2003. • All the functional Hazardous Waste generating industries are operational with authorization of the UPPCB as per Hazardous waste Rule, 2003 shall send the Hazardous Waste to TSDF every three Months. 	UPPCB Industrial Inspection- Every Three Months Individual Industries	CPPI will be reduced
2.	Municipal solid waste Disposal by Agra Authority in Industrial Area as well as in residential area.	<ul style="list-style-type: none"> • Agra Nagar Nigam is managing the regular cleaning of the city area. • Landfil Site & Composting treatment facility of 750 TPD at Kuberpur, Agra has been established by Agra Nagar Nigam. • The treatment is not operational facility since one year plant. Total quantity collected waste of 770 TPD is disposed by land filling. 	ADA/UPSIDC/ Nagar Nigam /District Administration	CPPI will be reduced

3.	Bio-Medical Waste Disposal by Hospitals & Health Care Facilities.	<p>Strict vigilance & monitoring is maintained for compliance of the provisions of BMW Rules, 2000.</p> <ul style="list-style-type: none"> For the disposal and treatment of BMW, A Common Biomedical Waste Treatment Facility (CBWTF) M/s Datt Enterprises Limited Etmadpur, Agra is installed and operational. Most of the health care units/hospitals/nursing home/blood banks are complying the BMW rules. 	Nagar Nigam/C.M.O/UPPCB Inspection- Every Three Months	CPPI will be reduced
4.	Illegal Set up of Industrial Activities	<ul style="list-style-type: none"> As per directions of TTZ Authority, ADA had engaged M/s Ramky Enviro Engineers., New Delhi as consultant. A pre feasibility report has been submitted for Shifting of these industries from the city area to appropriate sites outside the city. ADA & UPSIDC have been again instructed for initiating the effective measures for shifting of the same by TTZ Authority in its latest meeting. Recently action taken by District Administration, few petha units has been shifted from city to Kalindi Vihar petha industries. 	ADA/UPSIDC/ Nagar Nigam /District Administration	CPPI will be reduced

Comprehensive Environmental Pollution Index for Water Environment

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	CEPI
Existing	5.5	2.5	13.75	7	0	3	10	5	5	5	30	10	63.75
Post Action Plan	3	2.5	7.5	3	0	0	3	5	3	0	15	10	35.5

Comprehensive Environmental Pollution Index for Air Environment

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	CEPI
Existing	6	2.5	15		8	3	3	14	5	3	5	10	59
Post Action Plan	3	2.5	7.5		7	0	0	7	5	3	0	5	34.5

Comprehensive Environmental Pollution Index for Land Environment

	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	CEPI
Existing	5.5	2.5	13.75	7	0	0	7	5	4.75	5	28.75	10	59
Post Action Plan	3	2.5	7.5	3	0	0	3	5	3	0	15	10	31.5

10. Assessment of Techno-economical feasibility of pollution control systems in clusters of small/medium scale industries.

The Nunhai industrial estate developed by Industries Department and other two industrial areas eg. Foundry Nagar, Industrial Area and Sikandra, Industrial Area have been developed by the UPSIDC. The Infrastructural facilities in industrial areas have been provided.

Most of the operational industries of Agra has been shifted in three indetified industrial areas Nunhai, Foundry Nagar and Sikendara. Most of the operational industries has already converted with CNG and installed their own ETPs/APCS..

Agra city is facing acute problem of industrial activities in residential area. Approx 70 Electroplating units, 60- Small Tanneries of Khatik para, 117 Petha industries, 60 Shoe units, 50 Dairies & others are installed & in working & creating Water/Air/Noise Pollution.

- Taj Trapazium Zone Authority in its meeting dt. 14.11.2008 & 22.05.2009 directed Agra Development Authority, Agra to get prepared the DPR for Shifting of these industries from the city area to appropriate sites outside the city. ADA & UPSIDC have been again instructed for initiating the effective measures for shifting of the same by TTZ Authority in its latest meeting. Recently action takend by District Administrationtly, few petha units has been shifted from city to Kalindi Vihar petha Nagary.

11. Summary of Proposed Action Points

11. 1 Short Term Action Points (upto 1 year, including continuous activities)

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit	Cost
1.	Water Pollution			
a)	<p>Industrial Source - Proposed Action Plan for effective control of Water Pollution:</p> <ul style="list-style-type: none"> • Proper Vigilance and monitoring/ action against the industry are in progress by the UPPCB. All industries are of small scale. There is no large/medium water polluting industry in Agra. • Installation of separate energy meter for ETP is required for the evaluation of ETP. 	UPPCB	<p>All the operating water polluting industries belong to SSI sector. Hence monitoring is carried out on 6 monthly basis</p> <p>Notice has been sent to all the industries. The verification work under progress</p>	20 lacs
b)	<p>Groundwater Pollution</p> <ul style="list-style-type: none"> • Safety and Preventive measures to control such as rain water harvesting regarding dilution /Betterment of ground water strata is necessary. Several scheme eq. rainwater harvesting, checkdams, recharge pits, medbandhi, wet land etc. projects are being implemented by the concerning departments as SGWB/ADA/Nagar Nigam/UPPCB/Minor Irrigation/Forest Department etc for recharging and diluting the salinity in ground water. 	SGWB/ADA/ Nagar Nigam/ UPPCB/Minor Irrigation/Forest Department	Monitoring of ground water level every 6 months (UPPCB) carried out on yearly basis by CGWB/ SGWB and construction activities by other stake holders Ongoing for 1 year (CGWB)	25 lacs
c)	<p>Domestic Waste Water (Sewage)</p> <p>At present STPs of capacity of 184.75 mld are functional and 36 mld under execution.</p>	Nagar Nigam/ UPPCB/ UP Jal		350 crores

S. No	Name of Zone	Available Capacity		Capacity of Proposed STP with Location	Nigam(Yamuna Pollution Control Unit)		
		Commissioned	Under Execution				
1	Northern zone	14 mld under YAP-II + 2.25 mld under YAP-I + 4.5 MLD by ADA	-	20 mld Jaganpur	UPPCB is monitoring the effluent quantity after treatment of all the STPs which has been found satisfactory	Operational/satisfactory monitoring by UPPCB on monthly basis	84 & 53 Cr.
2	Western zone	40 mld under YAP-II,	36 mld by ADA	-			
3	Central zone	78 mld under YAP-I	-	-			
4	Tajganj zone	24 mld under JNNURM	-	-			
5	Southern zone-I	-	-	12 mld Dhandhupura			
6	Southern zone-II	12 mld under State sector	-	24 mld Deori Road			
7	Southern zone-III	-	-	14 mld Siroli			
8	East zone	10 mld under YAP-I	-	24 mld Peelakhar			
Total		184.75 mld	36 mld	94 mld	UPPCB is monitoring the effluent quality after treatment of these two STPs which has been found not satisfactory and under stabilization	Operational/ under stabilization monitoring by UPPCB on monthly basis	
<ul style="list-style-type: none"> As per sewerage Master Plan approved by Govt of U.P., prepared under YAP-II, the total city is to be benefited by Sewerage Syastem. About 300 mld sewage generation is expected in the year 2025. Accordingly, based on Sewerage Master Plan, a DPR for the year 2025 amounting Rs. 1240.82 Cr. has been prepared. The main works proposed in this DPR includes about 625 Km. Sewer Lines. 10 No. 					UP Jal Nigam (Yamuna Pollution Control Unit) /UPPCB	Report every 03 months to UPPCB.	1240.8 Cr.

	<p>Sewage Pumping Stations. 26 Km. rising mains and 6 Nos. STP's of 94 mld capacity. This DPR has been cleared by state E.F.C in April, 2011. The DPR is to be sanctioned by Ministry of Environment and Forest, Govt. of India. These works are anticipated to be completed in the year 2015.</p> <ul style="list-style-type: none"> • Effective operation, up gradation & maintenance of installed STP. • Inspection of STPs • Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Town ship & Building Projects are major source of sewage generation and Municipal Solid Waste. Such projects must ensure setting up of STPs, recirculation of treated water for flushing/gardening regarding purpose & ensure compliance of the conditions of the Environment Clearance and NOC from PCB 	<p>UP Jal Nigam (Yamuna Pollution Control Unit)</p> <p>UP Jal Nigam (Yamuna Pollution Control Unit)/UPPCB</p> <p>UP Jal Nigam (Yamuna Pollution Control Unit)</p>		
d)	<p>Infrastructural facilities: Strengthening of infrastructural facilities such as Roads, Power/Water Supply & drainage is required.</p> <ul style="list-style-type: none"> • Agra Nagar Nigam (ANN) is regularly cleaning drainage system to avoid water stagnation / over flowing. The Nalas was cleaned by ANN regularly. • Monitoring of NOC/environmental clearance and setting required ETPs. 	<p>ADA/UPSIDC/ Nagar Nigam & UPPCL</p> <p>Nagar Nigam</p> <p>UPPCB</p>	<p>Every month</p> <p>Every 03 month</p>	<p>5 Cr.</p>
2.	<p>Air Pollution</p>			
a)	<p>Industrial: Proposed Action Plan for effective control of Air Pollution:</p>			

<ul style="list-style-type: none"> ● UPPCB, Agra is monitoring ambient air quality of Agra in industrial and residential area. The data reveals that SO₂ & NO_x are within limits & SPM is beyond the limits. The main reason of high values of SPM is vehicular pollution. ● Induction Furnace - Such industries are marked with generation of substantial amount of process Emission. ● Provision of secondary hoods & additional ID Fan etc. for collection of untrapped Air Emission in all the Induction Furnaces. ● Restriction of plying of Petrol, diesel driven vehicles around 500 meter of Taj Mahal. ● Plying of Battery operated Buses and other vehicles within 500 meter of Taj also in Agra City. <ul style="list-style-type: none"> Golf Car - 12 (Running) Mini Bus - 12 (Running) Golf Car - 20 (Proposed) ● Fixation of age for public and commercial vehicles. <ul style="list-style-type: none"> ● RTA Agra has decided to fix age limit of School Buses out of city area and other organization buses as below- <ol style="list-style-type: none"> (1) School Bus-15 Yrs. (2) Other Bus-15 Yrs. <ul style="list-style-type: none"> ● 15 Years old commercial vehicles are not being permitted to ply on the road within municipal limit. In fact all such vehicles have been phased out. Within the Municipal limit the age of vehicles are as follows.- <ol style="list-style-type: none"> (a) 3 Wheelers Tempos & Auto Rickshaw 10 years for CNG only from Date of Registration. (b) City buses-12 years for CNG only from Date of registration. (c) Beyond the Municipal Limit area on private bus routes the maximum age limit is 10 years from the date of registration in TTZ. (d) Within municipal limit Educational / Commercial 	<p>UPPCB</p> <p>Inspection & Monitoring by UPPCB.</p> <p>C.O. Traffic/ RTO</p> <p>RTA/RTO</p>	<p>All the operating water polluting industries belong to SSI sector. Hence monitoring is carried out on 6 monthly basis</p> <p>Six monthly basis</p> <p>Already monitored on regular basis.</p> <p>Already is being monitored on regular basis.</p>	
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	<p>institutional buses age limit is 12 years for CNG & rural areas limit is 15 years.</p> <ul style="list-style-type: none"> ● No new registration of age barred vehicles. ● In Agra city there are 20 pollution checking centers for regular pollution checking of vehicles. <p>Regular Monitoring of Pollution Control System in Industries in order to ensure strict compliance of prescribed Norms.</p>	<p>RTO</p> <p>UPPCB</p>	<p>6 monthly basis</p>																																																																							
<p>b)</p>	<p>Clean fuel for vehicles:</p> <p>A Joint venture Company M/s Green Gas Ltd. has been formed by GAIL and IOC Ltd. to establish City Gas Distribution Network at Agra.</p> <table border="1" data-bbox="309 619 1256 1390"> <thead> <tr> <th colspan="7">CURRENT CNG SUPPLY STATUS</th> </tr> <tr> <th>Station Name</th> <th>TP Nagar</th> <th>Modern Filling Station</th> <th>Bhagwati Filling Station</th> <th>Vyom Premium Fuel</th> <th>Taj Nagari Mother Station</th> <th>Yamuna Automobile</th> </tr> </thead> <tbody> <tr> <td>Station Type</td> <td>Mother Station</td> <td>Daughter Booster Station</td> <td>Daughter Booster Station</td> <td>On Line Station</td> <td>Mother Station</td> <td>On Line Station</td> </tr> <tr> <td>CNG Compressors</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td>1</td> </tr> <tr> <td>Compression Capacity (kg/day)</td> <td>32,000</td> <td>450 SCMh</td> <td>500 SCMh</td> <td>16000</td> <td>33,000</td> <td>9000</td> </tr> <tr> <td>Booster Compressors</td> <td>NIL</td> <td>1</td> <td>1</td> <td>NIL</td> <td>NIL</td> <td>NIL</td> </tr> <tr> <td>CNG Auto/ Car Dispensers</td> <td>3</td> <td>1</td> <td>1</td> <td>2</td> <td>4</td> <td>1</td> </tr> <tr> <td>Auto/ Car Filling Points</td> <td>6</td> <td>2</td> <td>2</td> <td>4</td> <td>8</td> <td>2</td> </tr> <tr> <td>CNG Bus Dispensers</td> <td>2</td> <td>NIL</td> <td>NIL</td> <td>1</td> <td>1</td> <td>NIL</td> </tr> <tr> <td>Bus Filling Point</td> <td>2</td> <td>NIL</td> <td>NIL</td> <td>1</td> <td>1</td> <td>NIL</td> </tr> </tbody> </table>	CURRENT CNG SUPPLY STATUS							Station Name	TP Nagar	Modern Filling Station	Bhagwati Filling Station	Vyom Premium Fuel	Taj Nagari Mother Station	Yamuna Automobile	Station Type	Mother Station	Daughter Booster Station	Daughter Booster Station	On Line Station	Mother Station	On Line Station	CNG Compressors	2	1	1	1	3	1	Compression Capacity (kg/day)	32,000	450 SCMh	500 SCMh	16000	33,000	9000	Booster Compressors	NIL	1	1	NIL	NIL	NIL	CNG Auto/ Car Dispensers	3	1	1	2	4	1	Auto/ Car Filling Points	6	2	2	4	8	2	CNG Bus Dispensers	2	NIL	NIL	1	1	NIL	Bus Filling Point	2	NIL	NIL	1	1	NIL	<p>GAIL/Oil Companies / Transport Dept.</p>	<p>01 year</p>	<p>20 crores</p>
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Average Dispensing (kg/day)	13000	3500	3500	9000	8000	3000

- Presently the compression capacity available at Agra is 90000 Kg/day. However, the average sale is 40000 Kg/Day. Thus, conversion of private vehicle in to CNG may be promoted for reducing pollution at Agra.
- OLS at M/s Yamuna Automobiles , Jeoni Mandi has been commissioned on 21.03.14
- For promoting usage of industrial PNG cheaper natural gas may be provide by Govt. of India.

Future plan

Station Name	Brij Auto (BPCL RO)
Station Type	OLS
Land Acquisition	Equipments for installation have been ordered. Agreement has been signed with BPCL. Forest NOC is awaited which comes in the scope of BPCL.
Start Date (Tentative)	Within 6 months from receiving of Forest permission
CNG Compressors	1
Compression Capacity (kg/day)	9000
CNG Auto/Car Dispensers	2
Auto/ Car Filling Points	4
CNG Bus Dispensers	0
Bus Filling Points	0
LCV Filling Point	NIL

Green Gas Ltd.

Green Gas Ltd.

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25crores

c)	<p>Traffic and transport management:</p> <ul style="list-style-type: none"> Formation and implementation of parking policy <p>During the sanction of the building map the provision for parking place for the vehicles is considered according to the Govt. policy by ADA.</p> <p>Some parking places have been developed on main road(s) for use of tempos/auto rickshaws and are being used</p> <ul style="list-style-type: none"> Current status of public in terms of number of buses. Load factor etc and proposed plans to augment the fleet. <p>The current status of public transport at 32 routes are as follows.</p> <table border="1" data-bbox="443 627 992 850"> <thead> <tr> <th>Veh.</th> <th>Sanctioned</th> <th>Plying</th> </tr> </thead> <tbody> <tr> <td>Bus</td> <td>2290</td> <td>118</td> </tr> <tr> <td>Tempo, Taxi</td> <td>458</td> <td>192</td> </tr> <tr> <td>Auto Rickshaw</td> <td>7912</td> <td>7912</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Plans to move public transport to run on clean fuels. <p>RTA UP has ordered to give preference for the registration of new vehicles based on gaseous. (CNG/LPG) fuels.</p> <ul style="list-style-type: none"> Any other form of public transport planned: Metro bus rapid transit or any other. Plan, scale and schedule of implementation. <p>Purchase of Bus for public transport has been done by UPSRTC. Provision of Marcopolo bus in Agra have been provided in CDP under JNNURM. The bus service is satisfactory in Agra.</p> <ul style="list-style-type: none"> Formulation of transport policy to induce a model shift from private to public modes to transport and implementation including fiscal 	Veh.	Sanctioned	Plying	Bus	2290	118	Tempo, Taxi	458	192	Auto Rickshaw	7912	7912	<p>ADA/Nagar Nigam/ Distt.Administration/ Police/ Traffic Police</p> <p>RTA/GGL</p> <p>RTA/GGL</p> <p>RTA/Nagar Nigam/ADA</p>		
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Tempo, Taxi	458	192														
Auto Rickshaw	7912	7912														

	<p>measures.</p> <ul style="list-style-type: none"> ● Planning and construction bye-pass roads <p>One part of southern bye pass constructed under TTZ project is partially in use NHAI has a plan to join. NH-2, NH-11 and NH-3 by constructing four lane Agra bye pass to avoid congestion in the city. The project of construction of new Agra Bypass connecting NH-2 and NH-3 via NH 11 and SH 39 has commenced on 16.10.07. The permission for tree cutting, Land Acquisition and works of utility sifting are in process of completion. Contractor has been instructed to take necessary measures in respect of controlling air pollution.</p> ● Removal of encroachment of roads, promote non-motorised transport pedestrian station etc. <p>Nagar Nigam, ADA, P.W.D with the help of district administration and police removes the road side encroachments. Periodic encroachment removing drive takes place with the help of Distt./Police Administration in congested areas of the same where traffic flow is hindered.</p> ● Traffic signaling system <p>Automatic Traffic light signal system has been installed at 13 main crossings. Installation of solar traffic signals has been done at four intersections on MG Road on BOT basis. This has resulted in reduction of traffic congestion and promotes use of non-conventional energy.</p> ● Penalties for traffic rule violations <p>Tempo/Auto Rickshaw are playing from parking places situated at 50 mt. distance far from different crossing of the city. Those vehicles which</p> 	<p>PWD/NHAI</p> <p>Nagar Nigam/ADA</p> <p>Traffic/Police Deptt. and Nagr Nigam</p> <p>Traffic/Police Deptt. and Nagr Nigam</p>		
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	do not follow the traffic rules, action has been taken against them as per rules.			
d)	<p>Monitoring of D.G Sets:</p> <ul style="list-style-type: none"> • Within TTZ only C.NG/L.P.G Generators are allowed most of the industries have converted previously installed D.G. Sets into Gas fired genrators. • The commercial and residential purposes D.G Sets are being operated is on ultra low sulphur Diesel (0.035% sulphur diesel) in Agra. • M/s Green Gas Ltd. Is developing the CNG network in the city to cater the needs of domestic/commercial & industrial requirements including DG sets. • Conversion of fuel is needed. Old D.G. Sets required the canopy/ aquastic enclosure to reduce sound and air pollution. 	UPPCB	06 Months.	20 lakhs
3.	<p>Land Pollution</p> <p>a) Proper Storage & Disposal of Hazardous Waste & Solid Waste.</p> <p>27 Industries are located which are generating the Hazardous Waste. The 13 industries are lying closed due to its own and 14 industries are functional with membership for proper collection treatment and disposal of Transportation to Government Approved TSDF situated at Kanpur Dehat.</p> <ul style="list-style-type: none"> • Strict vigilance & monitoring is maintained for compliance of the provisions of Hazardous Waste Rules, 2003. <p>All the functional Hazardous Waste generating industries, which are operational with authorization of the UPPCB as per Hazardous waste Rule, 2003, shall send the Hazardous waste to TSDF every three months.</p>	Individual Industry	every 06 months	-

b)	<p>Municipal solid waste Disposal</p> <ul style="list-style-type: none"> • Agra Nagar Nigam is managing the regular cleaning of the city area. • Landfil Site & Composting treatment facility of 750 TPD at Kuberpur, Agra has been established by Agra Nagar Nigam. • The treatment is not operational facility since one year plant. Total quantity collected waste of 770 TPD is disposed by land filling. 	<p>UP Jal Nigam (C & DS) Nagar Nigam/ADA</p> <p>Project proponent to given compliance report to UPPCB.</p>	<p>Monitoring is carriedout on 3 months basis</p>	<p>15.42 Crores</p>
c)	<p>Bio-Medical Waste Disposal</p> <ul style="list-style-type: none"> • A common Bio- medical Waste Treatment Facility M/s Datt Enterprises, Kuberpur, Agra is in operation. <p>Total 564 hospitals/ Nursing homes etc. are associated to this facility, the 01 hospitals have installed their own incinerator/treatment facility and the BMW is being treated & disposed off properly.</p> <p>Details of the facility available in the M/s Datt Enterprises, Kuberpur, Agra:</p> <p>Incinator capacity : 200 kg/hr Autoclave : 100 kg/hr Shedor : 100 kg/hr ETP : 2KLD, APCS -Venturi Scrubber, Droplet Seprator & Disester Fuel -L.P.G Gas manifold 112X35 Kg Installed</p> <p>Strict vigilance & monitoring is maintained for compliance of the provisions of BMW Rules, 2000.</p>	<p>UPPCB</p> <p>UPPCB</p>	<p>Every 03 months</p> <p>Every 03 months</p>	<p>1 Crore</p>
d)	<p>Illegal setup of Industrial activities</p> <ul style="list-style-type: none"> • Agra city is facing acute problem of industrial activities in residential area. • Approx 70 Electroplating units, 60- Small Tanneries of Khatik para, 117 Petha industries, 60 Shoes units, 50 Dairies & others are installed & in working & creating Water/Air/Noise Pollution in theresidential area. • As per directions of TTZ Authority, ADA had engaged M/s Ramky 	<p>ADA/UPSIDC</p>	<p>02 years</p>	

	<p>Enviro Engineers., New Delhi as consultant. A pre feasibility report has been submitted for Shifting of these industries from the city area to appropriate sites outside the city.</p> <ul style="list-style-type: none">• ADA & UPSIDC have been again instructed for initiating the effective measures for shifting of the same by TTZ Authority in its latest meeting. Recently action takend by District Administratantly, few petha units has been shifted from city to Kalindi Vihar petha Nagary.			
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11.2 Long Term Action Points (more than 1 year)

STATUS OF TTZ PROJECTS APPROVED BY CABINET COMMITTEE ON ECONOMIC AFFAIRS (C.C.E.A.)

(Upto June 2011)

Rs. in Crores

DEPTT.	SL. NO.	PROJECTS	COST	TOTAL RELEAS ED AMOUNT	EXP. UPTO 31.12.09	DATE OF STARTI NG	PHYSICAL PROGRESS	Status of Post Evaluation by 'NEERI'	REMARKS		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
U.P.P.C. L.	1-	Improvement of Electric Supply in Agra	9.11	9.11	6.98	09/2000	<ul style="list-style-type: none"> 315 MVA Transformer installed at 400 KV S/S at Pilipokhar. Work completed. 	D.P.R. and information on required format submitted to 'NEERI'.	The scheme for improvement of electricity is sent to the Govt. of India for utilization of rest amt., i.e. Rs. 2.13 Cr.		
	2-	Improvement of Electric Supply in rural areas of Agra & Fatehpur-Sikri	39.09	39.09	38.51	07/1999	<ul style="list-style-type: none"> 10 new 33/11 KV S/S construction completed against 11 S/S. Remaining work of 33/11 KV S/S Jalesar is held due to non availability of fund. Enhancement of transformer capacity of all 19 Nos. 33/11 KV S/S completed. Electrification of 178 coded villages and 494 hamlets completed. Construction of new 132 KV S/S at Bodla completed. Increase in capacity of transmission of S/S at Bah, Gokul and Shamsabad completed. 	D.P.R. and information on required format submitted to 'NEERI'.	The work is still under progress.		
Jal Nigam	3-	Water Supply Agra	72.80	72.80	68.28	1997-98	<p>PROJECT COMPONENTS COMPLETION STATUS</p> <table border="0"> <tr> <td> <ul style="list-style-type: none"> 468.46 Km. of distribution pipes 13 Clear Water Reservoirs 25 Over Head Tanks 10 Zonal Pump Houses 77 Pumping Plants 2 Nos. Repairing of Filter beds Completed </td> <td> <ul style="list-style-type: none"> 456.63 Km. 11 completed 10 completed 10 completed 61(1 have been inst.) 2 Nos. </td> </tr> </table>	<ul style="list-style-type: none"> 468.46 Km. of distribution pipes 13 Clear Water Reservoirs 25 Over Head Tanks 10 Zonal Pump Houses 77 Pumping Plants 2 Nos. Repairing of Filter beds Completed 	<ul style="list-style-type: none"> 456.63 Km. 11 completed 10 completed 10 completed 61(1 have been inst.) 2 Nos. 	D.P.R. and information on required format submitted to 'NEERI'.	The project has been revised and all remaining works have been included in "Gangajal Project". No account has been given for the balance amt.
<ul style="list-style-type: none"> 468.46 Km. of distribution pipes 13 Clear Water Reservoirs 25 Over Head Tanks 10 Zonal Pump Houses 77 Pumping Plants 2 Nos. Repairing of Filter beds Completed 	<ul style="list-style-type: none"> 456.63 Km. 11 completed 10 completed 10 completed 61(1 have been inst.) 2 Nos. 										

							▪ 80 M Retaining Wall Completed	80 M.		of Rs.4.52 Cr.
	4-	Water Supply Mathura-Vrindavan (Phase I & II)	42.00	41.99	41.99	1996-97	PROJECT COMPLETION STATUS	COMPONENTS	D.P.R. and information on required format submitted to 'NEERI'.	The project cost has been revised to Rs.83.31 Cr. and the proposal has been sent to Deptt. of Urban Development, Govt. of U.P.
							▪ 01 Intake well and Water (101 MLD) Treatment Plant	Completed		
							▪ 36.02 Km. Feeder Main	25.42 Km. laid (18.13 completed)		
							▪ 13 Over Head Tanks	07 Nos. completed		
							▪ 05 Tubewells	04 Nos.		
							▪ 08 Clear Water Reservoirs and Pump House	05 Nos. (3 completed)		
rrigation	5-	Gokul Barrage	30.70	30.70	30.07	1990	Completed		D.P.R. and information on required format submitted to 'NEERI'.	Work is completed.
Nagar Nigam	6-	Solid Waste Management	7.49	7.49	7.14	08/1998	▪ Vehicles and implements purchased for containerized handling and transportation of solid wastes to improve the system efficiency. ▪ Ten covered tipper trucks with stainless steel lining purchased for safe handling of wastes. ▪ Construction of new workshop shed. ▪ Construction of twenty new community toilets. ▪ Trenching grounds work is in progress.		D.P.R. and information on required format submitted to 'NEERI'.	Balance of Rs.34.64 lac refunded to the Govt. Work is completed.
Jal Nigam & Nagar Nigam	7-	Storm Water Drainage (i) Jal Nigam	5.65	5.65	4.50	1997-98	▪ Bhim Nagar Area Drain-3900M completed against 6250M. ▪ Naval Ganj Area Drain-4730 M. Completed against 4730 M. (Wok Completed). ▪ Sikandra Area Drain-2200 M. Completed against 2300 M. (Work Completed) ▪ Mustfa Qtr.Area Drain-1250 M.Completed against 1350 M. (Work Completed) ▪ Sump Well (7M dia) cum Pump House is completed. ▪ All pumping plants installed & commissioned.		D.P.R. and information on required format submitted to 'NEERI'.	Rs.31.95 lacs are to be adjusted. Work is completed but the balance amt. has not been refunded.

		(ii) Nagar Nigam	0.95	0.95	0.95	03/1999	▪ Desilting, cleaning and strengthening of drains in Paliwal Park, Mantola, Bhairon Ganj and Taj Ganj. Total length 4.5 Km. completed.	D.P.R. and information on required format submitted to 'NEERI'.	Work Completed.
P.W.D.	8-	Construction of Agra Southern Bypass	10.65	10.65	8.43	1997-98	Completed.	D.P.R. and information on required format submitted to 'NEERI'.	Rs.22.50 lacs Surrendered & Release of Rs.2.00 Cr. stayed.
A.D.A.	9-	Widening of Agra Bypass	0.76	0.76	0.72	29.01.99	Existing Canal Patri Road which stretches for a length of about 19.90 km.was widened by 01 mtr. i.e. from 3.72 mtr. To 4.72 mtr.on one side.	D.P.R. and information on required format submitted to 'NEERI'.	Balance of Rs.0.04 Cr. refunded to the Govt. Completed
	10-	Improvement of Master Plan Roads of Agra City	21.22	21.22	21.22	01.01.99	<ul style="list-style-type: none"> ▪ 7.62 Km. Master Plan roads completed against 10.185 Km. ▪ 7.40 Km. Missing links completed against 8.46 Km. ▪ 02 newly approved roads of 4.63 Km. completed. 	D.P.R. and information on required format submitted to 'NEERI'.	The project is completed. Entire amt. has been utilized. The balance work is completed using own sources.

Note : The physical progress and financial expenditure is as per information provided by the concerned executing departments.

STATUS OF TTZ PROJECTS APPROVED BY EXPENDITURE FINANCE COMMITTEE (E.F.C.)

<i>Rs. in Crores</i>									
DEPTT.	SL. NO.	PROJECTS	COST	TOTAL RELEASED AMOUNT	EXP. UPTO 31.12.09	DATE OF STARTING	PHYSICAL PROGRESS	Status of Post Evaluation by 'NEERI'	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Forest	11-	Plantation	9.43	8.37	8.37	02/2000	▪ Plantation completed	D.P.R. and	The project is

								CATEGORY (in hect.)	PLANTATION	information on required format submitted to 'NEERI'.	completed.
								1- Around monuments 38 2- City roads 60 3- Industrial Area 190 4- Ravines 550 5- Usar 204 6- Normal Block Plantation 748 7- Other roads 598 ----- 2388 -----			
P.W.D.	12-	Improvement of 20 City Roads	27.47	15.93	7.57	08/2000	<ul style="list-style-type: none"> ▪ Improvement work of three important city roads Mahatma Gandhi Marg, Yamuna Kinara Marg and Paliwal Park to Gadha Para Marg completed. After March 2002 any amt. has not been allotted for the above remaining works. ▪ NH-2 to Ghatiya via Paliwal Park (Moti Lal Nehru Marg) road done by the A.D.A. ▪ Chandousi-Agra-Tantpur road converted in NH. ▪ Now the above works carried out by the Agra Development Authority. 	D.P.R. and information on required format submitted to 'NEERI'.	Rs.8.36 Cr. has been surrendered to the Govt.		
A.D.A.	13-	Improvement of Parking on Western Gate of Taj	0.94	0.94	0.94	10.06.2000	Completed		D.P.R. and information on required format submitted to 'NEERI'.	Completed	
Jal Nigam	14-	Agra Sewerage	43.57	23.00	23.00	8/2000	<ul style="list-style-type: none"> ▪ 89.127 Km. of sewer lines have been laid against target of laying of 112.347 kms. ▪ Vertical walls of all sump wells of MPS Nagla Mewati, IPS Shaheed Nagar, IPS Dhandupura and IPS Kolhai completed. 	D.P.R. and information on required format submitted to 'NEERI'.	Due to non-availability of funds from TTZ, all remaining works included in 'Yamuna Action Plan'. The cost for the project has		

Irrigation	15-	Agra Barrage	120.47	16.00	4.84	2001-02	Rs.1.00 Cr.Lapse & Rs.10.16 Cr.Refunded.	D.P.R. and information on required format submitted to 'NEERI'.	been revised (Rs.52.50 Cr.). Project not to be implemented under TTZ.
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Note : 1- 'Agra Barrage' and 'Gokul Barrage' escalated cost projects have been deleted as per Ministry of Environment & Forests, Govt. of India L.No.Q-7012/2/03-CPA, Dt. 23.2.2004.

2:- The physical progress and financial expenditure is as per information provided by the concerned executing departments.

STATUS OF TTZ PROJECTS APPROVED BY MISSION MANAGEMENT BOARD (M.M.B.)

Rs. in Crores

DEPTT.	SL. NO.	PROJECTS	COST	TOTAL RELEASED AMOUNT	EXP. UOTO 31.12.09	DATE OF STARTING	PHYSICAL PROGRESS	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Jal Nigam	16-	Water Supply Mathura-Vrindavan (Phase III)	19.69	6.00	6.00	1996-97	Projected population of Mathura in 2031 year : 4.09 lacs. Projected population of Vrindavan in 2031 year : 1.2 lacs. Distribution system - Detailed established appr. for zone M-I, M-4, M-5, M-6, M-8, M-9A, M-9B, V-1A, V-2 & V-3 & 104 km. pipe line laid in zone M-I, M-4, M-5, M-9A, M-9B, V-1A, V-2 and V-3 zones.	Due to non-availability of funds from TTZ, the balance works have been included in 'JNNURM'.
Forest	17-	Maintenance of Plantation	2.38	2.29	2.29	2000	As per direction of the Hon'ble Supreme Court on 14.12.2000 an additional amount of Rs.218.787 lacs has been released for Agra Forest Division for the maintenance of the plants.	As per the information provided by Forest Deptt., the plants are properly maintained.
C.P.C.B.	18-	Set up of 04 Monitoring Stations	0.71	0.71	0.61	11/2001	In compliance of the Hon'ble Supreme Court's order dated 04.05.2001, 04 Ambient Air Quality Monitoring Stations (AAQMS) and 01 Central Laboratory have been established/commissioned. The data is submitted to the Hon'ble Court.	Rs.9,84,175/- refunded. Project Completed .

ENVIRONM ENT	19-	TTZ Auth. Environmental & Administration Centre	---	1.00	1.00		Project not to be implemented.	In pursuance of the decisions of 'M.M.B.' meeting dated 19.8.2004, the project not to be implemented and released amt. Rs.1.00 Crore have to be recovered from executing agency.
	20-	TTZ Heritage Corridor	175.00	17.00	17.00		Work stopped as per Hon'ble Supreme Court orders.	Work stopped in compliance of the Hon'ble Supreme Court order dated 01.05.2003.
		TOTAL	640.08	331.65	305.85			

Note : The physical progress and financial expenditure is as per information provided by the concerned executing departments.