

COMPREHENSIVE ACTION PLAN FOR CRITICALLY POLLUTED INDUSTRIAL CLUSTERS OF GHAZIABAD (U.P.)

(Progress of Action Plan as on 31-12-2014)



**U.P. POLLUTION CONTROL BOARD
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12. Summary of Proposed Action Points

12. 1 Short Term Action Points (up to 1 year, including continuous activities)

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit/Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress Made up to December 2014.
1.	WATER POLLUTION				
a)	<p>Industrial Source</p> <p>Proposed Action Plan for effective control of Water Pollution:</p> <p>Regular effluent sample collection and analysis of Pollution Control System in Large & Medium & Small Scale Polluting Industries to be done to ensure strict compliance of prescribed Norms.</p> <p>It is to be mentioned that a total of 67 industries are categorized as Large & Medium units whereas 313 units are Covered under SSI category in whole of Ghaziabad, which are polluting in nature.</p> <p>All such units have installed adequate effluent treatments plant and are being monitored by UPPCB. Also it is being ensured by UPPCB that new units are set up with adequate pollution control system and the site is compatible.</p> <p>Installation of energy meter, on line PH meter, automatic chemical dosing system, on line flow measurement and installation of independent laboratory to monitor critical parameters like MLSS, SVI etc. and other inlet and outlet parameters of ETP for Large & Medium Industries.</p>	<p>UPPCB & Individual Industry</p> <p>Individual Industries (Large & Medium)</p>	<p>Frequency</p> <p>Large & Medium Industries -Every 3 months</p> <p>Small Scale Industries -Every 6 months</p> <p>(By UPPCB) & By Individual Industries as follows</p> <p>- L & M - Every 3 Months.</p> <p>Small – Once a Year</p> <p>Within 9 months</p>	<p>Monitoring is done on regular basis as per schedule.</p> <p>In last quarter 207 no. of inspections were carried out. Action has been taken against 09 No. of Defaulter industries. No. 07 of ETPs was upgraded (done/projected) as a result of action.</p> <p>18 industries have installed/started laboratory facility. Notice issued to rest of all Large & Medium type of polluting industries. 148 No. of Energy Meters were installed to measure electricity consumed during operation of ETP.</p> <p>05 no. of industries have installed online Chemical dosing arrangements.</p>	<p>Monitoring is being done on regular basis as per schedule.</p> <p>In last quarter 187 no. of inspections were carried out. Action has been taken against 20 No. of Defaulter industries. No. 05 of ETPs was upgraded (done/projected) as a result of action.</p> <p>18 industries has installed /started laboratory facility Notice issued to rest of all Large & Medium type of polluting industries. 160 No. of Energy Meters are installed to measure electricity consumed during operation of ETP.</p> <p>07 no. of industries have installed online Chemical dosing arrangements.</p>

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	<p>Units under SSI Category numbering about 150 are dying units engaged in dying of jeans and readymade garments in different industrial estates. All such units have installed physicochemical treatment facilities in the ETPs. Use of Poly electrolytes brings the effluent with in standards. Some of the units require installation of additional / tertiary units such as Dual media filter and activated Carbon filter, on case to case basis these dyeing units are being directed that they will not switch over to dyeing of synthetic fibers nor will use Chrome based dyes in future as well.</p> <p>As regards feasibility / possibility of CETP for dyeing units at Sahibabad industrial area, it is to mention that discharge from Sahibabad industrial area meets Sahibabad drains which carries untreated sewage. The Sahibabad drains after meeting point of Sahibabad industries area has been planned to be trapped and a STP of 66 MLD is being installed at Indirapuram by U.P. JalNigam. In order to stop discharge of sewage and STP construction work is in progress and 95% of sewerage work and 50% of STP work has been completed the works are expected to be completed by Mar 2011 and to stop discharge of sewage/industrial waste water from Ghaziabad into Drain No. 1 (Sahibabad Drain), it is proposed to tap Sahibabad Drain Near NH-24 and divert the flow through a sewer to Indirapuram STP and a separate STP of 74 MLD capacity will be installed in Indirapuram. This work will be completed by Dec 2011.</p>	<p>UPPCB & Individual Industry</p> <p>STP to be installed by Dec 2011 as per submission made by Urban Development Department, Govt. of U.P. to EPCA.</p> <p>Performance study of proposed STP to be done by U.P. Jal Nigam with in 03 months of its operation.</p>	<p>UPPCB & individual Industries within 09 months.</p> <p>Completion & Operation of STP at Indirapuram Ghaziabad by Dec 2011</p> <p>Ongoing Activity</p>	<p>Around 120 Small Scale Dying units have installed Dual Media Filter and ACF & rest are under process to install it</p> <p>Board has issued 23 Show cause notice & 02 Closure order against defaulter units.</p> <p>STP of 56 MLD capacity at Indira puram is in operation since Sept. 2012 by G.D.A.</p> <p>STP of 74 MLD capacity at Indirapuram is operational since Feb-2013.</p> <p>STP of 30 MLD capacity at Loni operational since September 2014</p> <p>Besides above 02 STP capacity of each 56 MLD at Vijay Nagar and Dudaheda is satisfactory operative. Construction of 02 STP of Capacity 56 MLD each at Bapudham yojna and Morti is completed.</p>	<p>Around 140 Small Scale Dying units have installed Dual Media Filter and ACF.</p> <p>Board has issued 04 Show cause notice & 04 Closure order & 15 direction issued against defaulter units.</p> <p>STP of 56 MLD capacity at Indira puram is in operation since Sept. 2012 by G.D.A. S.T.P. operative satisfactory</p> <p>STP of 74 MLD capacity at Indira puram is operational since Feb-2013. S.T.P. operative satisfactory.</p> <p>STP of 30 MLD capacity at Loni operational since September 2014.</p> <p>Besides above 02 STP capacity of each 56 MLD at Vijay Nagar and Dudaheda is satisfactory operative. Construction of 02 STP of Capacity 56 MLD each at Bapudham yojna. And Morti have been completed.</p>

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	<p>In case of any problem in operation of proposed STP due to industrial load, CETP dedicated for dyeing units and other small scale units may be planned and UPSIDC is to divert industrial drains in order to tap the industrial effluent. Also separate conveyance system for carrying the effluent to CETP is to be ensured by UPSIDC. Land for CETP to be provided by UPSIDC. A detailed feasibility report to be submitted by UPSIDC with in 01 year. At the same time proposed STP of 74 MLD at Indirapuram can be checked for taking up the industrial load after its operation. At present the discharges of the dyeing industries do not carry any toxic elements such as Cr or Ni in excess which can inhabit the operation of STP. The Sahibabad Industrial State Association is to be involved and will be the main stake holder for setting up of separate CETP for Sahibabad industrial area.</p> <p>01 CETP of 04 MLD capacity is operational at Tronica City Ghaziabad for Textile Units in SSI Sector. Presently very few industries are in operation. CETP needs effective operation & maintenance & regular inspection & monitoring by UPPCB.</p> <p>UPSIDC and DIC should not register new dyeing units at Sahibabad and Loni industrial area. Rather proposal of new proposed units should be sent to Tronica city where CETP has been installed.</p> <p>It is being ensured that all the Slaughter Houses whenever</p>	<p>In case of any adverse impact on performance of STP, UPSIDC & Sahibabad Industrial Area Association to submit the feasibility report of CETP with in 01 year.</p> <p>UPSIDC & UPPCB</p> <p>UPSIDC & DIC</p>	<p>-----</p>	<p>U.P. Jal Nigam has informed that the 74 MLD STP is being constructed and will take care of industrial effluent generated from Sahibabad industrial area, therefore the separate CETP may not be required in the light of unpresence of heavy metals such as Cr & Ni. The industries association has been informed.</p> <p>Being Monitored.</p> <p>10 No. of industries which have their own primary ETP have taken membership of CETPs. It is not filled up yet.</p> <p>Letter has been written to DIC for the small scale of dying units should be promoted in Apparel Park, Tronica City, Loni & Textile City, Pilkhua. .</p> <p>Closure Order has been issued to all slaughter houses owned by municipal authorities.</p>	<p>STP of 74 MLD capacity at Indira puram is operative satisfactory since Feb-2013 by UP Jal Nigam.</p> <p>Earlier Monitored on ----</p> <p>11 No. of industries which have their own primary ETP have taken membership of CETPs. It is not filled up yet.</p> <p>Letter has been written to DIC for the small scale of dying units should be promoted in Apparel Park, Tronica City, Loni & Textile City, Pilkhua. .</p> <p>Closure Order has been issued to all slaughter houses owned by municipal authorities and closed.</p>

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	installed, have either set up own rendering plants or have entered in to agreement with rendering plants approved by UPPCB. Closure orders have already been issued against slaughter house of Nagar Palika Parishad Loni, Ghaziabad.	UPPCB			There are 3 slaughter Houses operative in Gzb. All the slaughter House has adequate capacity of Rendering Plant and adequate ETP.
b)	<p>Groundwater Pollution</p> <p>Previously due to improper dumping of Hazardous Waste/chromium bearing effluent the ground water quality of Lohia Nagar area of Ghaziabad has been adversely affected. The main culprits were following industries :</p> <p>M/S Shree Ram Piston & Rings. M/S Mascot India (P) Ltd. M/S Kathuria Brothers (P) Ltd. M/S Marshall cycle (P) Ltd.</p> <p>In order to ensure supply of potable water in effected locality, committee has been formed under Nagar Ayukt. 01 no. of deep tube well has been installed in the area with contribution from identified units and 01 is under installation.</p> <p>Board gave directions to all above units to submit short term as well as long term action plans. Under the short term action plan 01 tube well has already been installed for the supply of potable water in the affected area installation of 01 tube well is in progress. Under the long term action plan Bio Remediation of polluted ground water is to be carried out in a time bound manner. Board has taken Bank Guarantee of Rs. 2.0 Crores from M/s Shri Ram Piston & Rings Ltd. in lieu of supply of potable water & Ground Water remediation in Lohiya Nagar Area Ghaziabad. Remediation plan has been submitted by M/s Shri Ram Piston & Rings Ltd. utilizing the process of pump & treat method besides treatment of ground water by utilizing the microbial culture. A technical presentation has been made by the concerned unit on</p>	Individual Industries	06 months for short term & 03 years for long term by Industries.	<ul style="list-style-type: none"> As per short term, in Lohia Nagar 02 Tube wells have been installed, commissioned and handed over to Nagar Nigam. Nagar Nigam Ghaziabad supplying potable water in the affected area of Lohia Nagar. <p>In compliance of Board order for the remediation of Ground Water M/s Shriram Piston & Rings started according to long term action plan.</p> <p>In first phase M/s Shri Ram Piston & Rings is extracting underground water from 03 Bore Wells and extracted water are being treated in ETP at Binoba Bhawe Park, Lohia Nagar since January, 2012. Regular monitoring have been carried by board & district level committee latest meeting have been organized on dated 16.10.2014</p>	<ul style="list-style-type: none"> Nagar Nigam Ghaziabad is supplying potable water in the affected area of Lohia Nagar by 02 Tube wells installed under short term remediation project for smooth supply of drinking water to Lohia Nagar, Ghaziabad. <p>In compliance of Board order for the remediation of Ground Water M/s Shriram Piston & Rings started according to long term action plan and is in progress.</p> <p>In first phase M/s Shri Ram Piston & Rings is extracting underground water from 03 Bore Wells and extracted water are being treated in ETP at Binoba Bhawe Park, Lohia Nagar since January, 2012. Regular monitoring have been carried by board & district level committee latest meeting have been organized along with action plan meeting on dated 30.12.2014</p> <p>In second phase industry have</p>

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	<p>10-11-2010 at Head Office of UPPCB & the process of Ground Water Remediation in process.</p> <p>U.P.P.C.B. has issued closure order under the provisions of Water Act 1974 against M/s Ajanta Additives. Also directions have been issued for submission of action plan for remediation of colored ground water. This is non toxic, does not contain any toxic metal At present no colored effluent is stored in the unit.</p> <p>In order to solve the problem of ground water pollution in the affected area following steps have taken/proposed.</p>	<p>Individual Industry</p> <p>Individual Industry</p> <p>UPPCB/ CGWB</p> <p>UPPCB, CGWB</p>	<p>Ongoing Process.</p> <p>Ongoing process.</p> <p>Ground Water Sampling & Monitoring every 02 months.</p> <p>Once in a year.</p>	<p>In second phase industry had installed two borewells in Meerut Road industrial area (M/s lactrix motor & m/s Mascot tools india ltd compounds) laying pipeline upto m/s Mascot tools india ltd meerut road industrial area have been completed.</p> <p>For implement of bioremediation m/s sriram piston & rings have installed 30 feed wells in lohia nagar area and 9 feed wells in merut road industrial area.</p> <p>Industry had been completed water treatment at four locations and water treatment process is progress in other remaining location.</p>	<p>extracted Ground water from two borewells in Meerut Road industrial area (M/s lactrix motor & m/s Mascot tools india ltd compounds) and and extracted water are being treated in ETP at Binoba Bhawe Park, Lohia Nagar. For implement of bioremediation m/s Sriram piston & rings started feeding of Bio culture into feed wells. In first phase industry have been feeded 30 feed wells and in second phase feeded in 09 feed wells.</p> <p>According to consultant /expert remediation shall completed upto the year 2017.</p> <p>Industry had been completed water treatment at four locations and water treatment process is under progress at two remaining location.</p>

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	<p>All the identified units have installed ETPs for chromium treatment and also become member of common TSDF and are sending their waste to TSDF.</p> <p>Monthly sampling of installed tube wells at Lohia nagar, Near Hamdard factory, within Sahibabad Industrial area, Rajendra nagar, Merrut Road Industrial Area and Loni etc. for colour, pH, BOD, Cr, Ni, Cd, Pb etc..</p> <p>Regular Ground Water Monitoring of the area to be conducted.</p>			<p>Being Monitored</p> <p>14 No. of samples taken & analyzed.</p>	<p>Being Monitored</p> <p>21 No. of samples taken & analyzed.</p>
c)	<p>Domestic Waste Water (Sewage) Domestic sewage contributes to about 80% of Water. The status of Sewage Pollution Control in Ghaziabad is as follows:</p> <p>02 STPs are Operational: 70 MLD - At Vijayanagar 56 MLD - At Indirapuram</p> <p>The operation of existing STPs is not satisfactory and needs improvements. U.P.P.C.B. has issued directives to U.P. Jal Nigam for up gradation for the STP technology by upgrading oxidation pond in to Aerated Lagoon.</p> <p>Plan regarding total sewerage and unsewered area in Ghaziabad and action plan for the same will be prepared by Nagar Nigam Ghaziabad within 06 months.</p> <p>Effective operation, up gradation & maintenance of installed STP.</p>	<p>GDA/ Nagar Nigam/ U.P. Jal Nigam</p> <p>Project proponent GDA, Nagar Nigam</p>	<p>Time period to be given by Nagar Nigam to UPPCB in 03 months.</p> <p>Compliance Report Every 3 Months to</p>	<p>2 STPs one of 56 MLD (Indira puram) and other of 70 MLD (Vijay Nagar) are operational and operated by Nagar Nigam in Ghaziabad and are being regularly monitored by the official of State Board.</p> <p>03 STP of capacity 56 MLD each are operational at Indirapuram, Vijaynagar & Govindpuram are operational and operated by GDA are being regularly monitored by the official of State Board.</p> <p>02 STP one of capacity 74 MLD at Indirapuram and 30 MLD at Loni operational and operated by UP Jal Nigam are being regularly monitored by Regional Office. Besides above construction of 01 STP of 56 MLD at Bapudham yojna</p>	<p>2 STPs one of 56 MLD (Indira puram) and other of 70 MLD (Vijay Nagar) are operational and operated by Nagar Nigam in Ghaziabad and are being regularly monitored by the official of State Board.</p> <p>03 STP of capacity 56 MLD each are operational at Indirapuram, Vijaynagar & Govindpuram are operational and operated by GDA are being regularly monitored by the official of State Board.</p> <p>02 STP one of capacity 74 MLD at Indirapuram and 30 MLD at Loni operational and operated by UP Jal Nigam are being regularly monitored by the official of State Board. Besides above construction of 01 STP of 56 MLD at Bapudham yojna have</p>

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	<p>Inspection of STPs by UPPCB</p> <p>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>	<p>& UPPCB.</p> <p>Nagar Nigam Ghaziabad</p> <p>Monitoring by UPPCB</p>	<p>UPPCB by Project proponent.</p> <p>6 Months.</p> <p>(Ongoing Process)</p>	<p>have been completed and construction of another STP of capacity 56 MLD and 01 STP at Govindpuram is being completed.</p> <p>Proposal for improvement from Jal Nigam / Nagar Nigam received.</p> <p>Nagar Nigam have been issued purchase order for automatic screens for Indirapuram & Vijaynagar existing S.T.Ps.</p> <p>Inspection on monthly basis and report submitted to Head Office, Lucknow.</p> <p>Directions given to Nagar Nigam for improvements.</p> <p>Inspection on monthly basis and</p> <p>Inspection on monthly basis and</p>	<p>been completed and construction of another STP of capacity 56 MLD and construction of 01 STP at Govindpuram is completed.</p> <p>Inspection on monthly basis and report submitted to Head Office, Lucknow.</p>

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				<p>report submitted to Head Office, Lucknow. Being Monitored.</p> <p>13 No. of STPs installed in buildings such as Hotels, Malls & residential buildings. Most of building projects are under constructions.</p>	<p>Being Monitored.</p> <p>13 No. of STPs installed in buildings such as Hotels, Malls & residential buildings. Most of building projects are under constructions.</p>
d)	<p>Infrastructural facilities: Drainage problem has been reported in UPSIDC owned industrial areas leading to choking of the drain and pounding of water. Authority is advised to regularly clean drainage system to avoid water stagnation / over flowing.</p>	UPSIDC	Every Month.	<p>Drainage system for M.G. Road Industrial Area is constructed by UPSIDC.</p> <p>Commissioner, Meerut had constituted Committee under the chairmanship of ADM, Baghpat to resolve the problem of stagnation of water near Lutfullapur, Nawada, Loni. Committee has conducted joint survey on dt. 29.09.12 & 04.10.12 and report is submitted to commissioner, Meerut.</p>	<p>Drainage system for M.G. Road Industrial Area is operative and connected with Hasanpur Drain.</p> <p>Drainage problem near Lutfullapur, Nawada, Loni under consideration.</p>
e)	<p>Hindon River Pollution Presently river Hindon gets polluted water from Saharanpur, Mujaffarnagar and upstream of Ghaziabad. It is being monitored at three sites fortnightly for specific parameters. It is proposed to monitor Hindon river for colour, total coliform, fecal coliform and regular parameters like BOD, COD, and DO. Strict vigil on discharge of Industries at Muzaffarnagar & Saharanpur especially Agro-based Paper Mills at Mujaffarnagar</p>	UPPCB Regional Officer, UPPCB Saharanpur & Mujaffar Nagar for industries located upstream.	Sampling & Monitoring every month by Regional Officer, Ghaziabad UPPCB.	<p>The water quality of River Hindon is being Monitored regularly by the official of the Board. As per the latest analysis report dt. September 2014 BOD 20.0 Mg/l, DO 2.5 Mg/l was found at Upstream of Ghaziabad & BOD 46.0 Mg/l, DO 0.0 Mg/l was found</p>	<p>The water quality of River Hindon is being Monitored regularly by the official of the Board. As per the latest analysis report dt. December 2014 BOD 61.0 mg/l, DO 0.0 mg/l was found at Upstream of Ghaziabad & BOD</p>

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	through Kali West & Distillery at Saharanpur through Hindon & Krishana.			at Downstream of Ghaziabad. .Board has imposed a ban of the use of Agro Based Raw Material in all the Paper Mills in the Catchments Area of River Hindon till the installation of chemical recovery plant.	42.0 mg/l, DO 0.0 mg/l was found at Downstream of Ghaziabad. Board had imposed a ban for the use of Agro Based Raw Material in all the Paper Mills in the Catchments Area of River Hindon till the installation of chemical recovery plant.
f)	<p>Illegal setup of Industrial activities Many Industries after being shifted from Delhi have been set up illegally in Tila Shahbazpur and other adjoining residential areas causing environment pollution and nuisance by discharging polluted effluent without any treatment. Regular combined drives are to be carried out by Pollution control board and District Administration to identify and seal such illegal industrial activities. Details of Illegal units along with details of drives already conducted by U.P.P.C.B. in coordination with District Administration are enclosed as Annexure.</p> <p>Electricity connections in favor of new projects not to be issued without NOC from environmental angle by UPPCB. Also UPPCL to ensure that electric connection is not sanctioned in favor of such industries which are not in conforming area.</p>	<p>UPPCB and District Admn.</p> <p>UPPCL and Udyog Bandhu, Ghaziabad</p>	<p>Combined drives every 2 months by UPPCB & District Administration.</p> <p>With immediate effect.</p>	<p>Last drive in 14.08.2014 in different areas of, Loni, Pilkhua Rajapur residential areas. Action taken against 14 identified illegal industries.</p> <p>Request letter sent to U.P.P.C.L Officials.</p>	<p>Latest Joint Drives against e-waste recycling illegal industries situated at Behta Hazipur near pine line on dt. 15.11.2014 & 27.11.14. Direction issued by the Chief Secretary, UP Govt. has been circulated to all the local bodies by the Board to check and take action against the industry those are operational in residential Areas.</p> <p>UPPCL disconnected Electricity connections of 14 industries.</p> <p>Regional Office sent a letter to UPPCL Officials for taking action against illegal units.</p>

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2. a)	<p style="text-align: center;">AIR POLLUTION</p> <p>Industrial: A total of 67 industries categorized as Large & Medium units & 313 units under SSI category have been identified under Red Category Polluting Industries in the area.</p> <p>Proposed Action Plan for effective control of Air Pollution: Regular Monitoring of Pollution Control System in Industries in order to ensure strict compliance of prescribed Norms.</p> <p>Major industrial sector of concern from Air Pollution point of view are as below: Forging - Such units use boiler for steam generation for the purpose of hammering. Such units need to upgrade APCS along with Noise Control System.</p> <p>Induction Furnace - Such industries are marked with generation of substantial amount of process of Air Emission. Provision of secondary hoods & additional ID Fan etc. for collection of unstrapped Air Emission in all the Induction Furnaces.</p>	<p>UPPCB & Individual Industries.</p> <p>Forging Units.</p> <p>Individual Industries.</p>	<p>Stack Monitoring of Large & Medium units every 06 months and once in a Year for SSI units. (By UPPCB) Stack Monitoring by Large & Medium units themselves every 06 months. (By individual Industries)</p> <p>09 Months</p> <p>09 Months by Industries,</p>	<p>Being done as per schedule. . Notice issued for 06 industries for proper operation of A.P.C.S.</p> <p>44 Forging unit upgraded their Air Pollution Control system along with wet scriber.</p> <p>20 no. of induction furnaces units had installed secondary hoods for Air Pollution Control system.</p>	<p>Being done as per schedule. Notice issued for 06 industries for proper operation of A.P.C.S. and show-cause issued Under section 31-A of Air Act.</p> <p>44 Forging unit upgraded their Air Pollution Control system along with wet scriber.</p> <p>20 no. of induction furnaces units had installed secondary hoods for effective control of Air Pollution Control system.</p>

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b)	<p>Common Bio-Medical Waste Treatment Plant</p> <p>One Common Bio-Medical Waste Treatment Plant of 150 kg/hr. capacity is being operated by M/S Samb Rankey Ghaziabad. The facilities comprises of Shredder, Auto Clave, Double Chamber incinerator, ETP, Venturi scrubber, water scrubber, 30 meter stack. All the Hospitals / Nursing Homes of Ghaziabad are Members of CWHCF.</p> <p>Effective operation & maintenance of installed Common Bio-Medical Waste Treatment Plant(CBMWTP)</p> <p>Inspection and monitoring of Hospitals / Nursing Homes by Regional Office UPPCB.</p>	<p>Common Bio-Medical Waste Treatment Plant operator. & UPPCB.</p> <p>UPPCB.</p>	<p>Common Bio-Medical Waste Treatment Plant operator, Inspection & Monitoring of CBMWTP Every 03 month by UPPCB.</p> <p>Big Hospitals every 03 months Small Hospitals every 06 months by UPPCB.</p>	<p>Last inspection of M/S Medicare Environmental Management Pvt. Ltd., Formerly known as Semb Ramkay Environmental Managment P Ltd. M.G. Road, GZB. Made on 17.11.2014 Stack emissions was found with in limit. Proper Storage of collected incinerable waste was found.</p> <p>425 no. of hospitals inspected. 526 no. hospitals out of 491 are attached to CBWTF.</p>	<p>Last inspection of M/S Medicare Environmental Management Pvt. Ltd., Formerly known as Semb Ramkay Environmental Managment P Ltd. M.G. Road, GZB. Made on dated 17.11.2014 Stack emissions was found with in limit. Proper Storage of collected incinerable waste was found.</p> <p>425 no. of hospitals inspected. 526 no Hospitals are attached to CBWTF.</p>
c)	<p>Common Hazardous Waste Incinerator</p> <p>01 Common Hazardous Waste Incinerator of 250 kg/hr. capacity is being operated by M/S Bharat Oil Co. (I) Regd. in Sahibabad industrial area, Ghaziabad. The facilities comprises of Double Chamber incinerator, ETP, Venturi scrubber, water scrubber, 30 meter stack.</p> <p>All the hazardous waste generating units have become member of TSDF Kanpur Dehat or Common Incinerator at Ghaziabad.</p> <p>Effective collection, operation & maintenance of installed Common Hazardous Waste Incinerator.</p> <p>Inspection and Stack Monitoring of Common Incinerator by Regional Office UPPCB</p> <p>Proper storage of Hazardous Waste within campus & to send to</p>	<p>Common Hazardous Waste TSDF/ Incinerator operator</p> <p>UPPCB</p> <p>Individual Industry</p>	<p>Ongoing</p> <p>UPPCB Every 3 months.</p> <p>Individual Industry, every 03/04 months</p>	<p>Being monitored as per schedule.</p> <p>Being compiled. 360 nos. of industries are member of Common TSDF out of total 320 operational units. Rest 23 units are recycling their hazardous</p>	<p>Inspection of Common Hazardous Waste Incinerator operated by M/S Bharat Oil Co. (I) Regd, Site-4, SBD, GzB has been carried out on dated 13.11.14</p> <p>Being compiled. 360 nos. of industries are member of Common TSDF out of total 320 operational units. Rest 23 units</p>

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	TSDf by individual Industries.			waste.	are recycling their hazardous waste.
d)	<p>Illegal setup of Industrial activities</p> <p>Many Industries after being shifted from Delhi have been set up illegally in Tila Shahbazpur and other adjoining residential areas causing environment pollution by using Baby Boilers or using fuel for steam generation and by discharging polluted effluent without any treatment.</p> <p>Regular combined drives are to be carried out by Pollution control board and District Administration to identify and seal such illegal industrial activities. Details of Illegal units along with details of drives conducted by U.P.P.C.B. in coordination with District Administration.</p> <p>Electricity connections in favor of new projects not to be issued without NOC from environmental angle by UPPCB. Also UPPCL to ensure that electric connection is not sanctioned in favor of such industries which are not in conforming area.</p>	<p>UPPCB and District Admn.</p> <p>UPPCL and Udyog Bandhu</p>	<p>Combined drives every 2 months by UPPCB & District Administration.</p> <p>Within 01 month</p>	<p>Last drive in 14.08.2014 in different areas of, Loni, Pilkhua Rajapur residential areas. Action taken against 07 identified illegal industries.</p> <p>Request letter sent to U.P.P.C.L Officials.</p>	<p>Direction issued by the Chief Secretary, UP Govt. has been circulated to all the local bodies by the Board to check and take action against the industry those are operational in residential Areas. UPPCL disconnected Electricity connections of 07 industries.</p> <p>Regional Office sent a letter to UPPCL Officials for taking action against illegal units.</p>
e)	<p>Monitoring of D.G Sets:</p> <p>Inventorisation of Old D.G. Sets in Industrial clusters and Commercial set ups including Multiplexes / Shopping Malls/ Educational Institution within or near industrial areas to be done by UPPCB.</p> <p>Post inventorisation remedial action with respect to air and noise pollution from likely sources shall be taken against defaulters</p> <p>Installation of Acoustic Enclosure with required APCS and adequate stack height in Old D G Sets to be ensured.</p>	<p>UPPCB</p> <p>UPPCB</p> <p>UPPCB</p>	<p>09 Months</p> <p>June 2011</p> <p>09 Months</p>	<p>Direction for less than 19.5 KVA D.G. Sets has been published in news paper for installation acoustic enclosure.</p>	<p>Only D.G. Sets with Acoustic enclosures are permitted. In Sahibabad Industrial Area 08 industries switched over to duel fuel based.</p>
3.	Land Pollution				

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit/Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress Made up to December 2014.												
a)	<p>Proper Storage & Disposal of Hazardous Waste & Solid Waste. The status of Hazardous Waste Disposal in Ghaziabad are as follows:</p> <table border="0"> <tr> <td>Total No. of Units</td> <td>- 360</td> </tr> <tr> <td>Self Closed Units</td> <td>- 40</td> </tr> <tr> <td>Operational Units</td> <td>- 320</td> </tr> <tr> <td>Units recycling the waste</td> <td>- 23</td> </tr> <tr> <td>Units which have become member of Common TSDF</td> <td>- 320</td> </tr> <tr> <td>Units which are not member of Common TSDF</td> <td>- 299</td> </tr> </table> <ul style="list-style-type: none"> • Units are to send landfill able / incinerable hazardous waste to approved TSDF. • Hazardous Waste generating units to be monitored regularly for compliance 	Total No. of Units	- 360	Self Closed Units	- 40	Operational Units	- 320	Units recycling the waste	- 23	Units which have become member of Common TSDF	- 320	Units which are not member of Common TSDF	- 299	<p>Individual Industry</p> <p>UPPCB</p>	<p>To send waste every 03/04 months to TSDF</p> <p>To monitor individual industries every six months</p>	<p>Being monitored as per schedule.</p> <p>Being monitored as per schedule.</p>	<p>Being monitored as per schedule.</p> <p>Being monitored as per schedule</p>
Total No. of Units	- 360																
Self Closed Units	- 40																
Operational Units	- 320																
Units recycling the waste	- 23																
Units which have become member of Common TSDF	- 320																
Units which are not member of Common TSDF	- 299																
b)	<p>Bio-Medical Waste Disposal 526 Hospital & Health Care Facilities are identified in Ghaziabad and 425 are member of Common BMW Treatment Facilities.</p> <p>Regular Inspection and monitoring of Hospitals / Nursing Homes has to be done</p>	<p>UPPCB</p>	<p>Inspection of Big Hospitals Every 03 months & Small Hospitals every 06 months by UPPCB.</p>	<p>Being monitored as per schedule.</p>	<p>Being monitored as per schedule.</p>												

12.2 Long Term Action Points (more than 1 year)

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
1.	<p style="text-align: center;">WATER POLLUTION</p> <p>a) Industrial Pollution</p> <p>Adoption of Cleaner Technology if available, in order to reduce quantity of waste water. Promote recycle after treatment for sector like Paper, Tannery.</p>	Individual Industries	Within 02 Years. (By Industries)	<p>Direction issued to all distilleries for maximum storage (50 % of storage capacity) of spent wash to maintain zero discharge.</p> <p>M/s Simbhaoli sugar mills (distillery unit) Simbhaoli, Hapur closed since February 2014. Final judgment by Hon'ble NGT given in OA No-299 of 2013 MA No-879 of 2013 & 403 of 2014 "Krish kant Singh & Ors Vs NGRBA & Ors on dated 16-10-2014.</p> <p>M/s Modi distillery, GZB. and M/s Brijnathpur Distillery, Brijnathpur, Hapur have biocomposting. M/s Mohan meakins Ltd (presently distillation procees is closed) have ferti irrigation. M/s</p>	<p>Direction issued to all distilleries for maximum storage (50 % of storage capacity) of spent wash to maintain zero discharge.</p> <p>M/s Simbhaoli sugar mills (distillery unit) Simbhaoli, Hapur closed since February 2014. Final judgment by Hon'ble NGT given in OA No-299 of 2013 MA No-879 of 2013 & 403 of 2014 "Krish kant Singh & Ors Vs NGRBA & Ors on dated 16-10-2014.</p> <p>M/s Modi distillery, GZB. and M/s Brijnathpur Distillery, Brijnathpur, Hapur have biocomposting. M/s Mohan meakins Ltd (presently distillation procees is closed) have ferti irrigation. M/s</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	<p>Strategies regarding cleaner technologies in Paper, Tanneries are to be conducted in a time bound manner. In the Waste Paper based units, stress is being laid for setting up of tertiary treatment facilities in order to ensure maximum recycling of treated waste water. Also recycling of the process water is being done as part of cleaner technologies. In the Tannery sector, the strategies regarding cleaner technologies include setting up of Chrome Recovery Plant and adoption of salt less technology / adoption of better salt management technologies in order to achieve lower TDS level in effluent. Also measures to be incorporated in process in order to maximize the recirculation ratio of water so that the consumption of fresh water gets minimized.</p> <p>U.P.C.B. is ensuring that highly water polluting industries are monitored regularly and frequently in order to ensure effective pollution control. The list of highly polluting industry is enclosed. Also on case to case bases directions are issued for up gradation of their ETPs if not adequate.</p> <p>In case of such individual industries wherever required, workable and achievable action plan for Water Pollution Control shall be submitted by 31st Dec 2010 and implementation of action plan will be ensured by 30th September 2011.</p> <p>Up gradation of ETP's: Conversion of conventional reduction treatment of electroplating waste water to Ion exchange method and its recycling in Large & Medium sector units, wherever existing ETP is not functioning properly.</p>	<p>UPPCB & Individual Industries.</p> <p>UPPCB Individual Industries.</p> <p>Individual Industries.</p> <p>Individual Industries</p>	<p>02 year (By Industries)</p> <p>Within 06 months</p> <p>30th September 2011.</p> <p>01 year</p>	<p>Ghaziabad organics Ltd. self closed All the tannery's have installed and its operation being monitored regularly</p> <p>Being monitored as per schedule. Directions have been given to Defaulter industries.</p> <p>Industries such as distilleries have being identified and directions have been issued for preparation of Action Plan. Industries are being identified and direction will be issued.</p>	<p>Ghaziabad organics Ltd. self closed All the tannery's have installed and its operation being monitored regularly</p> <p>Being monitored as per schedule. Directions have been given to Defaulter industries.</p> <p>-----</p> <p>Industries are being identified and direction will be issued.</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
b)	<p>Domestic Waste Water (Sewage)</p> <p>In order to insure treatment of total sewage generated so that no untreated sewage is discharged, 07 STP are proposed to be set up under Yamuna Action Plan as follows:</p> <p>56 MLD at Dudaheda 30 MLD at Loni 74 MLD at Indirapuram (By tapping SBD drain) 56 MLD at Indirapuram 60 MLD at Bamheta 36 MLD at Morta</p> <p>Also 02 STPs are proposed to be set up by GDA as follows. ● 56 MLD at Bapudham</p>	<p>GDANagar Nigam/ U.P. Jal Nigam / UPPCB</p> <p>GDA</p>	<p>Time limit to be submitted within 03 months</p> <p>Time limit to be submitted within 03</p>	<p>06 STPs, 02 No of capacity 56 MLD at Indirapuram, 01 No. of capacity 56 MLD & 70 MLD at Vijaynagar, 01 no. of capacity 56 MLD at Govindpuram & 01 no. of capacity 30 MLD at Loni, are operational in Ghaziabad and are being regularly monitored by the official of the State Board. Also directions have been issued to authorities for effective operation of STPs & ensure that treated effluent is as per the prescribed norms.</p> <ul style="list-style-type: none"> ● STP of 74 MLD capacity (for treatment of Sahibabad Drain) is operational in Ghaziabad and being regularly monitored by the official of the State Board. Direction issued for the increasing of discharge capacity. So that STP will operative with full capacity. <ul style="list-style-type: none"> ● Besides above 02 STPs each of 56 MLD capacities at Morti 	<p>06 STPs, 02 No of capacity 56 MLD at Indirapuram, 01 No. of capacity 56 MLD & 70 MLD at Vijaynagar, 01 no. of capacity 56 MLD at Govindpuram & 01 no. of capacity 30 MLD at Loni, are operational in Ghaziabad and are being regularly monitored by the official of the State Board. Also directions have been issued to authorities for effective operation of STPs & ensure that treated effluent is as per the prescribed norms.</p> <ul style="list-style-type: none"> ● STP of 74 MLD capacity (for treatment of Sahibabad Drain) is operational in Ghaziabad and being regularly monitored by the official of the State Board. Direction issued for the increasing of discharge capacity. So that STP will operative with full capacity. <ul style="list-style-type: none"> ● Besides above 02 STPs each of 56 MLD capacities

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	<p>•56 MLD at govindpuram</p> <p>Effective operation, up gradation & maintenance of installed 2 STPs (56 MLD at Indirapuram & 70 MLD at Vijainagar). Since treated sewage is not conforming to Board's standards (upgradation of polishing tanks to aerated lagoons etc.). Directions already issued to Nagar Nigam by UPPCB.</p> <p>Inspection & Monitoring of STPs.</p> <p>➤ Covering of major open Nalas carrying domestic sewage.</p>	<p>Nagar Nigam</p> <p>UPPCB</p> <p>Jal Nigam/Nagar Nigam/GDA</p> <p>Nagar Nigam/UPSIDC</p>	<p>months</p> <p>Effective O&M to be done with immediate effect. Proposals for upgradation to be submitted within 06 months.</p> <p>Every 03 months</p> <p>Identification of major open Nalas to be completed in 03 months. Submission of time bound plan for Covering of major open Nalas carrying domestic sewage</p>	<p>& Bapudham construction completed. STP is not commissioned due to non availability of sewage.</p> <p>Being done on monthly basis.</p>	<p>at Morti & Bapudham construction completed. STP is not commissioned due to non availability of sewage.</p> <p>Being done on monthly basis.</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	<p>➤ Problem of water logging in different area. Nagar Nigam and UPSIDC to identify such pockets where water logging as a result of inadequate conveyance system occurs frequently. Nagar Nigam and UPSIDC to submit the action plan for solving the problem of water logging including activities like regular cleaning of conveyance system and laying of new conveyance system wherever found inadequate.</p>		<p>with in 06 months. With in 03 months. Within 06 months.</p>	<p>Drainage system for M.G. Road Industrial Area is operative and connected with Hasanpur Drain. Drainage problem near Lutfullapur, Nawada, Loni under consideration.</p>	<p>Drainage system for M.G. Road Industrial Area is operative and connected with Hasanpur Drain. Drainage problem near Lutfullapur, Nawada, Loni under consideration.</p>
c)	<p>Groundwater Pollution : Gound water study in all the 22 Industrial clusters may be carried out by outsourcing Agencies on yearly basis.</p> <p>Previously due to improper dumping of Hazardous Waste/chromium bearing effluent the ground water quality of Lohia Nagar area of Ghaziabad has been adversely affected. The main culprits were following industries :</p> <p>M/S Shri Ram Piston & Rings. M/S Mascot india (P) Ltd. M/S Kathuria Brothers (P) Ltd. M/S Marshall cycle (P) Ltd.</p>	UPPCB and designated agencies	Every Year	<ul style="list-style-type: none"> As per short term, in Lohia Nagar 02 Tube wells have been installed, commissioned and handed over to Nagar Nigam. Nagar Nigam Ghaziabad supplying potable water in the affected area of Lohia Nagar. <p>In compliance of Board order for the remediation of Ground Water M/s Shriram Pistion & Rings started</p>	<ul style="list-style-type: none"> Nagar Nigam Ghaziabad is supplying potable water in the affected area of Lohia Nagar by 02 Tube wells installed under short term remediation project for smooth supply of drinking water to Lohia Nagar, Ghaziabad. <p>In compliance of Board order for the remediation of Ground Water M/s Shriram Pistion & Rings started according to</p>

S. No.	Action-Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	<p>In order to ensure supply of potable water in effected locality, committee has been formed under Nagar Ayukt. 01 no. of deep tube well has been installed in the area with contribution from identified units and 01 is under installation.</p> <p>Board gave directions to all above units to submit short term as well as long term action plans. Under the short term action plan 01 tube well has already been installed for the supply of potable water in the affected area and installation of 01 tube well is in progress. Under the long term action plan Bio Remediation of polluted ground water is to be carried out in a time bound manner. Board has taken Bank Guarantee of Rs. 2.0 Crores from M/s Shri Ram Piston & Rings Ltd. in lieu of supply of potable water & Ground Water remediation in Lohiya Nagar Area Ghaziabad. Remediation plan has been submitted by M/s Shri Ram Piston & Rings Ltd. utilizing the process of pump & treat method besides treatment of ground water by utilizing the microbial culture. A technical presentation has been made by the concerned unit on 10-11-2010 at Head Office of UP PCB & the process of Ground Water Remediation in process.</p>	Individual Industries	<p>06 months for short term.</p> <p>03 years for long term by Industries.</p>	<p>according to long term action plan.</p> <p>In first phase M/s Shri Ram Piston & Rings is extracting underground water from 03 Bore Wells and extracted water are being treated in ETP at Binoba Bhawe Park, Lohia Nagar since January, 2012. Regular monitoring have been carried by board & district level committee latest meeting have been organized on dated 16.10.2014</p> <p>In second phase industry had installed two borewells in Meerut Road industrial area (M/s lactrix motor & m/s Mascot tools india ltd compounds) laying pipeline upto m/s Mascot tools india ltd meerut road industrial area have been completed.</p> <p>For implement of bioremediation m/s sriram</p>	<p>long term action plan and is in progress.</p> <p>In first phase M/s Shri Ram Piston & Rings is extracting underground water from 03 Bore Wells and extracted water are being treated in ETP at Binoba Bhawe Park, Lohia Nagar since January, 2012. Regular monitoring have been carried by board & district level committee latest meeting have been organized along with action plan meeting on dated 30.12.2014</p> <p>In second phase industry have extracted Ground water from two borewells in Meerut Road industrial area (M/s lactrix motor & m/s Mascot tools india ltd compounds) and and extracted water are being treated in ETP at Binoba Bhawe Park, Lohia Nagar.</p> <p>For implement of</p>

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	<p>U.P.C.B. has issued closure order under the provisions of Water Act 1974 against M/s Ajanta Additives. Also directions have been issued for submission of action plan for remediation of coloured ground water. Which is non toxic, does not contain any toxic metals. At present no coloured effluent is stored in the unit.</p> <p>In order to solve the problem of ground water pollution in the effected area following steps have taken/proposed.</p> <p>All the identified units have installed ETPs for chromium treatment and also become member of common TSDF and are sending their waste to TSDF.</p>			<p>piston & rings have installed 30 feed wells in lohia nagar area and 9 feed wells in merut road industrial area.</p> <p>Industry had been completed water treatment at four locations and water treatment process is progress in other remaining location.</p> <p>Being Monitored</p>	<p>bioremediation m/s Sriram piston & rings started feeding of Bio culture into feed wells. In first phase industry have been feeded 30 feed wells and in second phase feeded in 09 feed wells.</p> <p>According to consultant /expert remediation shall completed upto the year 2017.</p> <p>industry had been completed water treatment at four locations and water treatment process is under progress at two remaining location.</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	<p>Monthly sampling of installed tube wells at Lohia nagar, Near Hamdard factory, within Sahibabad Industrial area, Rajendra nagar, Merrut Road Industrial Area and Loni etc. for colour, pH, BOD, Cr, Ni, Cd, Pb etc..</p> <p>Regular Ground Water Monitoring of the area to be conducted.</p>	<p>Individual Industry / UPPCB</p> <p>UPPCB/ CGWB</p>	<p>Ongoing Process.</p> <p>Ground Water Sampling & Monitoring every 02 months.</p>	<p>14 No. of samples taken & analyzed.</p>	<p>Being Monitored</p> <p>21 No. of samples taken & analyzed.</p>
d)	<p>Hindon River Pollution :</p> <p>Presently river Hindon gets polluted water from upstream of Ghaziabad. It is being monitored at three places every month for specific parameters.</p> <p>River Hindon receives pollution load from upstream stretches of Saharanpur, Mujaffarnagar, Bagpat. The highly polluting units in these stretches like Agro based Pulp & Paper units, Distillery, Sugar units are regularly inspected on quarterly basis in order to ensure compliance.</p> <p>To monitor Hindon river at above 3 points every month for metal like Cd, Pb, Cu, Cr beside regular parameters after getting AAS.</p>	<p>UPPCB</p> <p>RO UPPCB Saharanpur, Mujaffarnagar, Bagpat.</p>	<p>Every 03 months by respective R.Os.</p>	<p>The water quality of River Hindon is being Monitored regularly by the official of the Board.</p> <p>As per the latest analysis report dt. September 2014 BOD 20.0 Mg/l, DO 2.5 Mg/l was found at Upstream of Ghaziabad & BOD 46.0 Mg/l, DO 0.0 Mg/l was found at Downstream of Ghaziabad.</p> <p>.Board has imposed a ban of the use of Agro Based Raw Material in all the Paper Mills in the Catchments Area of River Hindon till the installation of chemical recovery plant.</p>	<p>The water quality of River Hindon is being Monitored regularly by the official of the Board.</p> <p>As per the latest analysis report dt. December 2014 BOD 61.0 mg/l, DO 0.0 mg/l was found at Upstream of Ghaziabad & BOD 42.0 mg/l, DO 0.0 mg/l was found at Downstream of Ghaziabad.</p> <p>Board had imposed a ban for the use of Agro Based Raw Material in all the Paper Mills in the Catchments Area of River Hindon till the installation of chemical recovery plant.</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
2. a)	<p style="text-align: center;">AIR POLLUTION</p> <p>Industrial Pollution Implementation of Cleaner Technology in order to reduce quantity of process and fugitive emissions and Effective operation & maintenance of installed APCS</p> <p>Switching over to cleaner fuel has been proposed as the best option to control Air Pollution in Industrial Areas.</p> <p>To supply and promote the use of cleaner fuel like CNG, in order to reduce emissions in the industrial</p>	<p>Individual industry</p> <p>Individual industry</p> <p>Various gas agencies</p>	<p>02 Years</p> <p>01 year subject to availability of CNG</p> <p>01 year subject to availability of CNG</p>	<p>Being done as per schedule. . Notice issued for 06 industries for proper operation of A.P.C.S. 44 Forging unit upgraded their Air Pollution Control system along with wet scribe. 20 no. of induction furnaces units had installed secondary hoods for Air Pollution Control system.</p> <p>CNG Supply has been started by M/s. Indraprashta Gas Ltd., and Air polluting units situated in Ghaziabad have taken Gas connection and have Switches to CNG as Fuel Gas Commissioned for 140 industries.</p>	<p>Being done as per schedule. Notice issued for 06 industries for proper operation of A.P.C.S. and show-cause issued Under section 31-A of Air Act. 44 Forging unit upgraded their Air Pollution Control system along with wet scribe. 20 no. of induction furnaces units had installed secondary hoods for effective control of Air Pollution Control system.</p> <p>CNG Supply has been started by M/s. Indraprashta Gas Ltd., and Air polluting units situated in Ghaziabad have taken Gas connection and have Switches to CNG as Fuel Gas Commissioned for 155 & for 48 industries commissioned under progress. Presently 79430 SCMD consumed for industrial</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	Baby Boiler in dying units used coal as fuel and generates uncontrolled stack emission. Such units need APCS in first phase till CNG is not available.	Individual Industries.	01 year		purposes, 113522 SCMD for vehicle proposes, 29630 SCMD for domestic & 6408 SCMD for Commercial proposes.
b)	<p>Introduction of Cleaner Fuel for Industrial Uses :</p> <p>Currently industries are using Coal/ Petro Coke/Wood and FO/LDO/LSHS as a fuel which emits SPM and SO₂ and other pollutants. If CNG is made available to industries the RSPM, SO₂ will be reduced and Ambient Air Quality will be improved.</p> <p>Board has given NOC to IGL & Adani Group to provide CNG in Ghaziabad for vehicles as well as industrial & domestic use. These companies need to expedite there distribution network for the same at the earliest.</p>	Gas and Oil Companies	Gas & Oil Companies to assess the demand for industries & start supplying CNG to industries within 1.5 Year.	Air Polluting units of Ghaziabad have taken Gas connection and have switches to CNG as industrial fuel. Gas commissioned for 140 Industries/commercials consumers.	Air Polluting units of Ghaziabad have taken Gas connection and have switches to CNG as industrial fuel. 155 Industries have enrolled for Gas connection. Gas commissioned for 48 Industries/commercials consumers.
c)	<p>Clean fuel for vehicles:</p> <p>At present 02 CNG stations are operational and are supplying approximately 7000 Kg/day of CNG for commercial vehicles & rest most of the vehicles are using Diesel, Petrol.</p> <p>Board has given NOC to IGL & Adani Group to provide CNG in Ghaziabad for vehicles as well as industrial & domestic use. These companies need to expedite there distribution network for the same.</p>	Gas Companies RTO	01 year / As per plan submitted by Gas agencies. As per approved schedule for phasing out of the vehicle. To be implemented by	CNG supply is being done through 21 retail outlets Gas filling station. 02 additional CNG retail outlets gas filling stations are proposed. Total CNG consumed for vehicles is about 113522 SCMD for vehicle proposes. Only BS IV vehicles are	CNG supply is being done through 21 retail outlets Gas filling station. 02 additional CNG retail outlets gas filling stations are proposed by the end of 2012. Total CNG consumed for vehicles is about 113522 SCMD for vehicle proposes.

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	Diesel Commercial Old vehicles should be phased out.		RTO with immediate effect.	registered by Transport Department in Ghaziabad.	<p>Presently 39991 CNG vehicles are registered in Ghaziabad.</p> <p>During dated 01.12.2013 to 30.11.2014 3761 challan carried out due to non PUC and 5226 challan carried out under motor vehicle Act.</p> <p>RTO registered only CNG Operated Tempo. RTO stopped renewal registration of 15 years old vehicle in compliance of NGT order dated 26.11.2014 in OA No- 21/2014</p>
d)	<p>Installation of NAAMP Stations</p> <p>At present 02 manual AAQM Stations are operational in Ghaziabad but they need to be upgraded to monitor RSPM and PM_{2.5} as per new AAQM Standard. Present station is out of order.</p> <p>02 continuous AAQM Stations need to be set up.(01 at UPPCB Vasundhara Office & 01 at Industrial Area)</p>	<p>UPPCB and CPCB</p> <p>UPPCB</p>	<p>Survey for Industrial Area station to be</p>	<p>Being done as per schedule.</p> <p>Installation of 01 continuous AAQM under progress.</p>	<p>Being done as per schedule.</p> <p>Board has issued work order (Out sourcing) for carrying out Ambient Air Monitoring at 02 locations work order issued to M/s. Indrapratha Engg. College.</p> <p>Installation of 01 continuous AAQM under progress.</p>

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	Ambient Air Quality in critical Industrial Zones to be monitored manually once in every 02 months on 24 hours basis by UPPCB.		done and Proposal for 02 continuous AAQM to be send by UPPCB to CPCB & to set up in 01 Year. Every 02 Months.	Ambient Air Quality monitoring at 03 residential area have been carried out according to report PM10 value found between 200 to 300 µg/Nm ³ which is due to vehiluer emmission and construction activities.	Ambient Air Quality monitoring at 03 residential area have been carried out according to report PM10 value found between 200 to 300 µg/Nm ³ which is due to vechiluer emmission and construction activities.
e)	Display of AAQM data On line display of AAQM data at two different locations in the area need to be under taken by Industries Association and UPPCB	UPPCB, CPCB Proposal to be made by UPPCB & sent to CPCB	1.5 Years	Under progress.	Under Progress.
f)	Use of Cleaner fuel Time frame to be chalked out by RTO for conversion of all commercial vehicles such as Auto, Bus & Vikram into CNG.	RTO in consultation with Gas Companies	01 Year	Will be done as per schedule.	Will be done as per schedule.
g)	Development of Green Belt UPSIDC & Industries should develop green belt from 20% to 33% of the total area.	UPSIDC & Industries	Ongoing	Will be done as per schedule.	Will be done as per schedule.

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
h)	Monitoring of D.G Sets: Installation of Acoustic Enclosure with required APCS and adequate stack height in Old D G Sets to be ensured. New D.G.Sets to be of silent type.	UPPCB	1.5 Year	Acoustic enclosure in D.G. set installed by Industries. Some industries installed D.G. set in sound proof/Acoustic room.	Acoustic enclosure in D.G. set installed by Industries. Some industries installed D.G. set in sound proof/Acoustic room
3)	LAND POLLUTION			Proposed	Proposed.
a)	Soil Testing Soil testing in all 22 industrial clusters of Ghaziabad is proposed to be done for different metals like Pb, Cr, Cu, Fe etc. twice a year through recognise laboratory.	UPPCB	01 Year		
b)	Study of impact on Human Health of Water & Air Pollutants in Ghaziabad.	IITR (Earlier ITRC) / Any other designated Agency	02 Year	Proposed.	Proposed.
c)	Municipal solid waste Disposal At present Municipal solid waste is disposed as landfill in low lying areas. Authority should develop proper MSW facility as per MSW Rules at Proper site.	Nagar Nigam	01 year	Being done by Nagar Nigam Ghaziabad.	Presently 900 Mt/day MSW generated from Gzb. & temporally disposed by Nagar Nigam Gzb. GDA handover 19 Acer land Galand to Nagar Nigam for development of Solid Waste disposal site. Public hearing was conducted by the Board for MSW Site, Dundheda, Ghaziabad. The MSW disposal site at Dundheda under the consideration in different litigations.

S. No.	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit / Frequency	Progress Made So far up to September 2014 reviewed in the CPCB Meeting.	Progress made so far up to December 2014
	<p>Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Town ship & Building Projects are major source of Municipal Solid Waste</p> <p>Such projects must ensure setting up of in house MSW disposal facilities as per MSW Rules & ensure compliance of the conditions of the Environment Clearance and NOC from PCB</p>	<p>Project proponent to give compliance report to UPPCB.</p> <p>Individual project proponent.</p>	<p>Every 3 months</p> <p>With immediate effect.</p>	<p>Direction issued while issuing NOC.</p> <p>Direction issued while issuing NOC.</p>	<p>Direction issued while issuing NOC.</p> <p>Direction issued while issuing NOC.</p>