



U.P. POLLUTION CONTROL BOARD
PICUP BHAWAN, GOMTI NAGAR, LUCKNOW
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Progress Report of Noida, Gautam Budh Nagar, Uttar Pradesh

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

S. No.	Action Points (Source and Mitigation)	Responsible Agencies/Stake Holders	Time Limit/Frequency	Remarks/Progress so far upto 28-05-12
1. a)	<p>Water Pollution</p> <p>Industrial Source - Proposed Action Plan for effective control of Water Pollution:1</p> <ul style="list-style-type: none"> • 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. 	UPPCB & Individual Industry	<p><u>Frequency</u> Large & Medium Industries -3 months Small Scale Industries -6 months (By UPPCB) & By Individual Industries as follows - L & M - Every 3 Months. Small - Once a Year</p>	<p>Monitoring of industrial units is being done as per schedule.</p> <p>Total 250 samples from effluent discharging industries have been taken since April, 2011. Out of these 22 were found above the prescribed norms. Board has issued closure order against 06 Electroplating units, 01 Dyeing unit (Amrita Textiles Ltd.) and 01 Automobile Service Station (Koncept Automobile Pvt Ltd.). Of these all 06 electroplating units have been dismantled and the M/S Amrita Textiles Ltd. and M/s Koncept Automobile Pvt Ltd have been closed. Other non complying have been issued notices and have either taken or ar in</p>

	<ul style="list-style-type: none"> 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 and industries situated. Upgradation of ETP in existing water polluting units is to be done on case to case basis. Under the upgradation plan, suitable tertiary treatment methods are to be installed in a time bound manner in order to ensure that treated water is recycled / reused to the maximum extent. Upgradation 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. Prospective agents with expertise in this field shall be shortlisted in next 6 months. 	<p>Individual Industries (Large and Medium)</p> <p>Individual Industries.</p> <p>UPPCB & Individual Industries.</p>	<p>Ongoing</p> <p>With in 06 months.</p> <p>06 Months</p>	<p>process of taking corrective measures. (ANNEXE-I)</p> <p>Presently, energy meter has been installed in Large and Medium scale water polluting industries. Other units are running their ETPs in a regular manner. Directions regarding installation of pH meter, automatic dosing and maintenance and proper running of ETPs have also been given in the District Level Committee held on 28/5/2012. Units whose ETPs are found to be not achieving the laid down standards are given a notice from Regional office level.</p> <p>M/S Sandeep Paper Mills Pvt Ltd is the only waste paper unit is operating in the area and it has upgraded their existing ETPs by installing Fiber</p>
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	<p>Also, small industries in the region currently using physico chemical treatment methods to treat their effluent shall be upgraded such as installation of dual media filter and Activated Carbon filter. Directions regarding installation of pH meter, automatic dosing and maintenance and proper running of ETPs have also been given in the District Level Committee held on 28/5/2012.</p>	<p>UPPCB Individual Industries.</p>	<p>& 06 months</p>	<p>Recovery Units for efficient recycling of the treated effluent. In Dyeing and Electroplating units, Hanung Textiles (P) Ltd, RGA Exports (P) Ltd, JPC, Samtex Desinz, Autonix India (P) Ltd, Neokraft and Trelleborg Activated Carbon filter/ Dual Media filter has been installed to ensure Tertiary treatment.</p> <p>M/s Flex, M/s Afflatus Graveus and M/s Agra Products have installed ion exchange/recovery system to ensure minimal/zero discharge from their industries. Other Large and Medium scale industries have installed tertiary treatment system to enhance the quality of discharged effluent.</p> <p>To maintain and also improve the Water quality of the region, Noida Authority is not giving permission for electroplating and dyeing process to any new</p>
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				industry in Noida region.
b)	<p>Groundwater Pollution</p> <ul style="list-style-type: none"> Regular monitoring of Over Head Tanks supplying drinking water in the region and Rainy wells is proposed to be done by Regional Laboratory of State Pollution Control Board. <ul style="list-style-type: none"> Also, intensive surveys will be done to ensure that practice of reverse boring is not prevalent in the region. 	<p>UPPCB and Noida Authority.</p> <p>UPPCB</p>	<p>Ongoing</p> <p>Ongoing</p>	<p>Drinking water in the region is supplied from Overhead Tanks after mixing groundwater with 20 cusec of Ganga water allotted to Noida as of now. Noida Authority is also getting the water samples tested every month by authorized laboratory.</p> <p>Samples of drinking water from these Over Head Tanks have been collected and for major parameters as per Drinking Water Standards. Also, samples from different rainy wells in the region have been analysed for required parameters. (ANNEXE-II)</p> <p>Regular inspections are done to ensure that practice of reverse boring is not prevalent in the region.</p>
c)	<p>Domestic Waste Water (Sewage)</p> <p>Domestic sewage contributes to about 80% of Water. The status of Sewage Pollution Control in Noida is as follows:</p>			<p>Noida region is divided in 04 zones for purpose</p>

<p>➤ 06 STPs are Operational:</p> <ul style="list-style-type: none"> • 34MLD - At Sector 50 [UASB Technique] • 27MLD - At Sector 54 [UASB Technique] • 33MLD – At Sector 54 [SBR Technology] • 25MLD – At Sector 50 [SBR Technology] • 09MLD - At Sector 54 [Oxidation Pond] • 05MLD – At Sector 91 [Oxidation Pond] <p>➤ Effective operation & maintenance of installed STP.</p> <p>➤ Combined Inspection of STPs by UPPCB and Jal Nigam</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</p>	<p>Noida Authority and HNB Engineers (P) Ltd.</p> <p>Noida Authority [HNB Engineers (P) Ltd.]</p> <p>UPPCB and Jal Nigam</p> <p>Project proponent Noida Authority & UPPCB.</p>	<p>Ongoing</p> <p>Ongoing Process</p>	<p>of sewage treatment and tapping all sewage sources. Presently, Noida has sewage treatment capacity of 133 MLD against 150 MLD being generated by estimated population of approximately 8 lacs. Two new STPs of 35 MLD at Sector-123 and 50 MLD at Sector-168 will be commissioned by August-September, 2012 which shall be sufficient to treat sewage generation in Noida region till 2021.</p> <p>Monthly sampling of water discharged from these STP's is done by Board Laboratory and substantial improvement has been observed in quality of final outlet from these STP's.</p> <p>A total of 20 buliding projects including Hotel, Shopping Malls, Commercial set ups have</p>
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	<p>treated water for flushing/gardening regarding purpose & ensure compliance of the conditions of the Environment Clearance and NOC from PCB.</p>			<p>installed STPs and are being monitored regularly.</p> <p>Building Plan is sanctioned by Noida Authority & State Environment Authority issues Environment Clearance to the building projects of more than 20000 m² built up area.</p> <p>Board is ensuring that all up coming building projects of more than 20000 m² built up area are provided with STPs and treated effluent is recycled for in house horticulture & flushing purposes as far as possible; if they are not connected with the STP installed by Noida Authority.</p>
<p>d)</p>	<p>Hindon River Pollution Presently river Hindon gets polluted water from Ghaziabad and upstream of Ghaziabad. It is being monitored at two sites fortnightly for specific parameters. In up-stream samples are collected from Chijjarsi village at the point where it enters the Noida region and at downstream at Tilwada village before meeting Yamuna. Presently, Regional laboratory is analyzing samples for regular parameters like BOD, COD, and DO. It is also proposed to monitor Hindon river for colour, total coliform, fecal</p>	<p>UPPCB</p>	<p>Sampling & Monitoring every month by UPPCB.</p>	<p>Total of 136 samples from Hindon and STP's have been collected and analysed by the Regional Laboratory of the Board. The treated effluent of STP has been found to be as per the prescribed</p>

	coliform.			norms.
2.	Air Pollution			
a)	<p>Industrial: A total of 25 air polluting industries have been identified in the Noida region.</p> <p>Proposed Action Plan for effective control of Air Pollution:</p> <ul style="list-style-type: none"> Regular Monitoring of Pollution Control System in Industries in order to ensure strict compliance of prescribed Norms. 	UPPCB & Individual Industries.	Stack Monitoring of Large & Medium units every 06 months and once in a Year for SSI units. (By UPPCB & by individual Industries)	<p>Regional Laboratory of the Board has done 37 stacks monitoring in critically air polluting units in the region since April, 2011. (ANNEXE-III)</p> <p>Also, Ambient Air Quality Monitoring is done by the Regional Laboratory at 02 designated locations under National Ambient Air Quality Monitoring Program.</p>
b)	<p>Illegal setup of Industrial activities</p> <p>Regular combined drives are to be carried out by Pollution control board and District Administration to identify and seal illegally operating industrial activities.</p> <p>UPPCL to ensure that electric connection is not sanctioned in favour of such industries which are not in conforming area.</p>	UPPCB and District Admn. UPPCL and Udyog Bandhu	<p>Combined drives every 2 months by UPPCB & District Administration.</p> <p>Within 01 month</p>	<p>Illegal electroplating units have been found to be running in Jhundupura residential area of the region. Board has initiated the process of issuing closure orders against all the 06 illegal electroplating units. (ANNEXE-IV)</p>

c)	<p>Monitoring of D.G Sets:</p> <ul style="list-style-type: none"> ➤ 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. ➤ Post inventorisation remedial action with respect to air and noise pollution from likely sources shall be taken against defaulters ➤ Installation of Acoustic Enclosure with adequate stack height in Old D G Sets to be ensured. 	<p>UPPCB</p> <p>UPPCB</p> <p>UPPCB</p>	<p>06 Months.</p> <p>Ongoing</p> <p>9 months</p>	<p>UPPCB has conducted intensive survey of the region and most of the D.G. sets in Multiplexes/Shopping Malls and Educational Institutions were found to be as per requirement. In industrial area, 33 industries have been identified to be running old D.G. sets. Of these 21 industries have made their D.G. sets sound proof and are as per requirement now. Others have been given instructions to comply with the order failing which action shall be initiated.</p>
d)	<p>Noise Monitoring</p> <p>Board is procuring real time noise monitoring system. This will be installed in Commercial, Residential, Industrial and Sensitive Zones of the Region.</p>	<p>UPPCB</p>	<p>Ongoing</p>	<p>Siting of locations for instrument installation has been done. Currently Board laboratory does 16 manual noise monitoring per month</p>
3. a)	<p>Land Pollution</p> <p>Proper Storage & Disposal of Hazardous Waste & Solid Waste.</p>	<p>Individual Industry</p>	<p>To send waste every 03/04 months</p>	<p>All industries generating hazardous waste in the</p>

	<p>The status of Hazardous Waste Disposal in Noida are as follows:</p> <ul style="list-style-type: none"> ➤ Total No. of Units - 156 ➤ Operational Units - 156 ➤ Units recycling the waste - 51 ➤ Units which have become member of Common TSDF/Recycler - 156 	UPPCB	<p>to TSDF</p> <p>To monitor individual industries every six months.</p>	<p>region are giving their waste to autohorized TSDF / recyclers only.Of total 156 hazardous waste generating units, 75 have taken authorization from BOWML, 72 from UPWMP, 06 are recycling and using the waste in house and 03 have their own handling capacity. Other than site inspection, Hazardous waste generated in the region is also monitored by assessing Form 13 submitted by industries</p>
c)	<p>Bio-Medical Waste Disposal 188 Hospital & Health Care Facilities are identified in Noida out of which all 188 are member of authorized Common BMW Treatment Facilities. (M/s Synergy Waste Management (p) Ltd. And M/s SembRamky Environmental Management Pvt Ltd, Ghaziabad.) (ANNEXE-VI)</p> <p>Regular Inspection and monitoring of Hospitals / Nursing Homes has to be done</p>	Regional Office, UPPCB	Inspection of Big Hospitals Every 03 months & Small Hospitals every 06 months by UPPCB.	Board officials have done inspection of around 45 hospitals in last 4 months to ensure that proper segregation and house keeping facilities are in place. (Annexure V)

Long Term Action Points (more than 1 year)

S. No.	Action Points (Source and Mitigation)	Responsible Holders	Stake	Time Limit	Remarks
1.	Water Pollution				
a)	<p>Industrial Pollution</p> <ul style="list-style-type: none"> Adoption of Cleaner Technology if available, in order to reduce quantity of waste water. Promote recycle after treatment for sector like Paper, Tannery. Strategies regarding cleaner technologies in Paper industries 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. 	Individual Industries UPPCB & Individual Industries		Within 01 Years. (By Industries)	Waste Paper based unit Sandeep Paper Mill has installed Fibre Recovery Plant and have started recycling/reusing of treated effluent.
b)	<p>Domestic Waste Water (Sewage)</p> <p>➤ At present, 06 STPs are functional in Noida as follows :</p> <ul style="list-style-type: none"> 34MLD - At Sector 50 [UASB Technique] 27MLD - At Sector 54 [UASB Technique] 33MLD – At Sector 54 [SBR Technology] 25MLD – At Sector 50 [SBR Technology] 09MLD - At Sector 54 [Oxidation Pond] 05MLD – At Sector 91 [Oxidation Pond] <p>➤ In order to ensure treatment of total sewage generated in Noida so that no untreated sewage is discharged, 02 STPs are proposed to be set up as follows:</p>	UPPCB and Noida Authority		Ongoing 2012 2012	Noida region is divided in 04 zones for purpose of sewage treatment and tapping all sewage sources. Presently, Noida has sewage treatment capacity of 133 MLD against 150 MLD being generated by estimated population of approximately 8 lacs. Two new STPs of 35 MLD at Sector-123 and 50 MLD at Sector-

	<ul style="list-style-type: none"> •100 MLD at Sector-168 (50MLD in 1st phase) • 70 MLD at Sector-123 (35 MLD in 1st phase) <p>➤ Widening and Covering of major open Nalas carrying domestic sewage.</p>			168 will be commissioned by August-September, 2012 which shall be sufficient to treat sewage generation in Noida region till 2021. Work on widening and covering of major Nalas has been completed.
c)	<p>Groundwater Pollution : Gound water study may be carried out in all the 6 Industrial Clusters by Out Sourcing Agencies every 06 months.</p>	UPPCB & Designated Agencies.		Presently, Ground/Drinking water monitoring in the region is being done by Regional Laboratory of U.P. Pollution Control Board.
d)	<p>Hindon River Pollution : To monitor Hindon river U/S & D/S every month for metal like Cd, Pb, Cu, Cr beside regular parameters after getting AAS.</p> <p>Procurement of new AAS. Atomic Absorption Spectro Photometer.</p>	UPPCB UPPCB & CPCB.	16 months 01 Year	Proposal to purchase AAS is under consideration of the Board.
2.	<p>AIR POLLUTION Industrial Pollution</p>			
a)	<ul style="list-style-type: none"> • Implementation of Cleaner Technology in order to reduce quantity of process and fugitive emissions and effective operation & maintenance of installed APCS. Implementation of cleaner technology / adoption of cleaner fuel, identification of industries to be done in time bound manner. • Switching over to cleaner fuel has been proposed as the best 	UPPCB and Individual industry Individual industry, UPPCB	December 2011	Indraprastha Gas Limited is supplying CNG/PNG to 90 industries and 79 commercial projects. These industries were earlier dependent on fossil fuels.

	<p>option to control Air Pollution in Industrial Areas. Some industries have already switched to cleaner fuel technology. Technological intervention / switching over to cleaner fuel to be done in time bound manner.</p> <ul style="list-style-type: none"> To supply and promote the use of cleaner fuel like CNG, in order to reduce emissions in the industrial 	IGL Indraprastha Gas Limited		(ANNEXE – VI)
b)	<p>Introduction of Cleaner Fuel for Industrial Uses : 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 Noida 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 are in process of getting more and more industries on board and complete switch from solid fuel to clean fuel will be done in a time bound manner.	Indraprastha Gas Limited is supplying CNG/PNG to 90 industries and 79 commercial projects. These industries were earlier dependent on fossil fuels. Progress of same has been annexed with this document. (ANNEXE – VI)
c)	<p>Clean fuel for vehicles: At present 16 CNG stations have been build in Noida (09 awaiting NOC) to supply clean fuel. These stations have compression capacity of 3.79 lakh kg/day. Also, all commercial three wheelers buses being registered in Noida are those using CNG only.</p> <p>Phasing out of old diesel commercial vehicles is being done as per policy. (ANNEXE-II)</p>	RTO & Gas Companies	01 year / As per plan submitted by Gas agencies.	Indraprastha Gas Limited has opened CNG stations for vehicles. Progress of same has been annexed with this document. Also, ARTO office of the region has ensured that no commercial vehicle using petrol/diesel as fuel in the region is registered. (ANNEXE-VII)
d)	<p>Installation of NAAMP Stations At present 02 manual AAQM Stations are operational in Noida</p>			Proposal to monitor PM2.5 at two stations

	<p>but they need to be upgraded to monitor RSPM and PM_{2.5} as per new AAQM Standard and also other parameters listed in new AAQM</p> <ul style="list-style-type: none"> ➤ 01 continuous AAQM Stations need to be set up ➤ Ambient Air Quality in critical Industrial Zones to be monitored manually once in every 02 months on 24 hours basis by UPPCB. 	UPPCB and CPCB		is under consideration. Board has passed proposal to establish one CAAQMS at Noida.
e)	<p>Display of AAQM data</p> <p>On line display of AAQM data at two different locations in the area need to be under taken by Industries Association and UPPCB</p>	UPPCB, CPCB Proposal to be made by UPPCB & sent to CPCB	1.5 Years	Proposal is under consideration.
f)	<p>Use of Cleaner fuel</p> <p>Time frame to be chalked out by RTO for conversion of all commercial vehicles such as Auto, Bus & Vikram into CNG.</p>	RTO in consultation with Gas Companies	01 Year	All commercial vehicles registered in the region are running on CNG only. (Annexe – VII)
g)	<p>Development of Green Belt</p> <p>Noida & Greater Noida Authority & Industries should develop green belt from 20% to 33% of the total area.</p>	Noida & Greater Noida Authority	Ongoing	Ongoing
3)	<p>Land Pollution</p> <p>Soil Testing</p> <p>a) Soil testing of some large scale industry has been done and is being carried out every month. Soil testing in all 3 industrial clusters of Noida is proposed to be done for different metals like Pb, Cr, Cu, Fe etc. twice a year through recognise laboratory.</p>	UPPCB	01 Year	Presently, Soil testing in the industries is being done by third parties only. Soil shall be got tested from I.T.R.C. The institute is yet to be decided with the guidelines of CPCB and T.O.R. & funding pattern needs to be decided.
b)	<p>Study of impact on Human Health of Water & Air Pollutants in Noida & Greater Noida.</p>	IITR (Earlier ITRC) / Any other designated Agency	December 2012	
c)	<p>Municipal solid waste Disposal</p>			

	<ul style="list-style-type: none"> ➤ 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. Quantification of MSW to be done by Noida & Greater Noida Authority. ➤ Site selection for MSW disposal to be done by Noida Authority. ➤ Strategy for implementation / setting up of integrated facility for MSW to be decided in consultation with local civic authority and implemetaion to be done in time bound manner. ➤ Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Town ship & Building Projects are major source of Municipal Solid Waste ➤ 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>Noida Authority</p> <p>Noida Authority</p> <p>Noida Authority</p> <p>Project proponent to give compliance report to UPPCB.</p>	<p>Deceber 2011</p> <p>March 2011</p> <p>December 2011</p> <p>Every 3 months</p>	<p>Site of 25 acres for development of MSW disposal site has been earmarked in Sector 123 and initial DPR has been submitted to Noida Authority by HUDCO.</p>
	<p>Committee Update As per directions from Ministry of Environment and Forest, Government of India shortlisting of Senior citizen candidate and a representative of a NGO to be included in the State Level Monitoring Committee has been done and nomination work is in progress.</p>	<p>UPPCB and District Administration</p>		<p>Senior Citizen & N.G.O. are participating the DM's monitoring meeting the same was held on 28-05-12.</p>