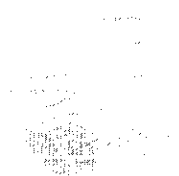


Progress Report
on
Action Plan for Abatement
of Pollution in
Ludhiana

Submitted to
P.P.C.B. Punjab
Board for
Environment
Ludhiana
By M. Singh



PUNJAB POLLUTION CONTROL BOARD

Background

- ❑ Based on the study carried out by CPCB / MoEF, Ludhiana & Mandi Gobindgarh towns were declared as critically polluted area by MoEF vide office Memorandum dated 13/01/2010.
- ❑ Action Plans for abatement of pollution in these critically polluted areas were submitted to CPCB / MoEF in the month of June, 2010.
- ❑ High Level Steering Committee under the Chairmanship of Hon'ble Chief Secretary, Punjab for monitoring the progress on the Action Plan was constituted on 29/9/2010. Last meeting of the High Level Steering Committee was held on 08/03/2013.
- ❑ Distt. Level Committees were constituted under the chairmanship of concerned Deputy Commissioners of Ludhiana & Mandi Gobindgarh.
- ❑ Regular meetings at the District level under the Chairmanship of concerned Deputy Commissioners are being held.
- ❑ The progress on the various activities being carried out by the various departments of the State of Punjab was submitted to the CPCB.
- ❑ Now PPCB has been asked to submit the latest progress report in the matter.

LUDHIANA

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015																																						
1.	Upgradation of existing sewage treatment plants.	30/9/2011	STP Status (designed for 30 mg/l for BOD)																																						
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">1.</td> <td style="width: 25%;">48 MLD</td> <td style="width: 25%;">UASB</td> <td colspan="3" style="width: 45%;">Jamalpur</td> </tr> <tr> <td>2.</td> <td>111 MLD</td> <td>UASB</td> <td colspan="3">Bhattian</td> </tr> <tr> <td>3.</td> <td>50 MLD</td> <td>SBR</td> <td colspan="3">Bhattian</td> </tr> <tr> <td>4.</td> <td>152 MLD</td> <td>UASB</td> <td colspan="3">Balloke</td> </tr> <tr> <td>5.</td> <td>105 MLD</td> <td>SBR</td> <td colspan="3">Balloke</td> </tr> <tr> <td colspan="2">TOTAL</td> <td colspan="4">466 MLD</td> </tr> </table>						1.	48 MLD	UASB	Jamalpur			2.	111 MLD	UASB	Bhattian			3.	50 MLD	SBR	Bhattian			4.	152 MLD	UASB	Balloke			5.	105 MLD	SBR	Balloke			TOTAL		466 MLD			
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TOTAL		466 MLD																																							
<ul style="list-style-type: none"> ▪ PPCB norms are 10 mg/l for BOD. Therefore, to upgrade these STP's, the work of preparation of DPR is allotted to EIL as reported by PWSSB on 08.12.2014. 																																									

			<ul style="list-style-type: none">▪ PCB has requested the Govt. for asking the EIL to re-access the quantum of domestic effluents.▪ MC, Ludhiana has also submitted its comments on the Draft DPR to EIL. The final DPR is awaited.▪ PWSSB also informed that the work of O&M of all the STPs has been taken over by M.C. Ludhiana from 18.06.2015.
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015			
2.	Laying of sewer lines in remaining areas and connecting with the sewage treatment facilities.	30/6/2012	<p>Two new STPs, 70 MLD at Jamalpur and 100 MLD at Bhattian are to be constructed. The work of preparation of DPR of these two plants has been allotted to EIL.</p> <p>PWSSB Reported as:</p> <table border="1" data-bbox="1137 874 2063 1066"> <tr> <td data-bbox="1144 930 1447 1023">Branch Sewer = 467.95 km</td> <td data-bbox="1675 946 1839 1038">Progress</td> <td data-bbox="1906 954 2051 991">456.204 km</td> </tr> </table> <ul style="list-style-type: none"> <li data-bbox="1122 1102 1816 1155">▪ Funds allocated: Rs.248.14 Cr <li data-bbox="1122 1203 1816 1256">▪ Funds utilized : Rs. 245.69 Cr. <li data-bbox="1122 1303 2074 1406">▪ More funds are required to complete sewerage system. 	Branch Sewer = 467.95 km	Progress	456.204 km
Branch Sewer = 467.95 km	Progress	456.204 km				

			<ul style="list-style-type: none">▪ The matter regarding providing funds to the tune of Rs. 12.00 Cr. has already been taken with CEO, PWSSB, Chandigarh vide letter no. 478 dated 06.02.2015. Rs. 3.86 crore has been released by PWSSB for due payments of the contractors and the efforts are being made for the release of balance funds at Head office level.▪ The balance sewer shall be laid on the receipt of funds
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015																								
1.	Installation and Commissioning of 3 CETPs for dyeing clusters. (Further, there is proposal to install 2 CTP of capacity of 117 MLD and 15 MLD)	Construction and commission of CETP at Bahadurke Road by 31/12/2011.	<p>All 268 dyeing industries have installed individual ETPs. PPCB is monitoring these ETPs, but to ensure monitoring at single outlet and ensure the achievement of standards at all the times, CETPs were proposed.</p> <p>CETP Status :</p> <table border="1" data-bbox="1081 788 2067 1209"> <tbody> <tr> <td data-bbox="1081 906 1171 938">1.</td> <td data-bbox="1171 906 1458 938">Tajpur Road</td> <td data-bbox="1458 906 1563 938">90</td> <td data-bbox="1563 906 1697 938">30</td> <td data-bbox="1697 906 1906 975">2 modules of 25 MLD each</td> <td data-bbox="1906 906 2067 975">20%, 30.09.2015</td> </tr> <tr> <td data-bbox="1081 975 1171 1007">2.</td> <td data-bbox="1171 975 1458 1007">Rahon Road</td> <td data-bbox="1458 975 1563 1007">22</td> <td data-bbox="1563 975 1697 1007">11</td> <td data-bbox="1697 975 1906 1043">(Cost Rs. 158 Cr)</td> <td data-bbox="1906 975 2067 1043"></td> </tr> <tr> <td data-bbox="1081 1043 1171 1075">3.</td> <td data-bbox="1171 1043 1458 1075">Bahadurke Road</td> <td data-bbox="1458 1043 1563 1075">22</td> <td data-bbox="1563 1043 1697 1075">15</td> <td data-bbox="1697 1043 1906 1129">15 MLD (Cost Rs. 105.69 Cr.)</td> <td data-bbox="1906 1043 2067 1129">10%, 30.09.2015</td> </tr> <tr> <td data-bbox="1081 1129 1171 1161">4.</td> <td data-bbox="1171 1129 1458 1161">Focal Point</td> <td data-bbox="1458 1129 1563 1161">62</td> <td data-bbox="1563 1129 1697 1161">40</td> <td data-bbox="1697 1129 1906 1198">40 MLD (Cost. Rs. 79 Cr.)</td> <td data-bbox="1906 1129 2067 1198">30%, 30.09.2015</td> </tr> </tbody> </table> <ul data-bbox="1055 1225 2114 1465" style="list-style-type: none"> • For 36 dyeing industries (discharge 10MLD) of Industrial Area-A, the proposal to install CETP is under consideration. • 31 Scattered industries (10 MLD) shall be shifted to Tajpur Road, where PSIEC has 15 acres spare land. 	1.	Tajpur Road	90	30	2 modules of 25 MLD each	20%, 30.09.2015	2.	Rahon Road	22	11	(Cost Rs. 158 Cr)		3.	Bahadurke Road	22	15	15 MLD (Cost Rs. 105.69 Cr.)	10%, 30.09.2015	4.	Focal Point	62	40	40 MLD (Cost. Rs. 79 Cr.)	30%, 30.09.2015
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			<ul style="list-style-type: none"> <li data-bbox="1046 730 2085 927">▪ Dedicated Conveyance system for conveyance of effluent from Tajpur Road & Rahon Road to CETP site has been started. 600 meter sewer line completed. <li data-bbox="1046 986 2085 1230">▪ Dedicated Conveyance system of 22 Km of sewer for conveyance of effluent from Focal Point to CETP site at Tajpur Road has been started. 4100 meter length of sewer has been laid.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<p>Status as reported by GMDIC regarding the Grant-In-Aid to the CETPs:-</p> <p>1. 15 MLD CETP for dyeing cluster at Bahadurke Road, Ludhiana:-</p> <p>Proposal from Bahadur-Ke Textile & Knitwear Association to avail Grant-in-Aid has been forwarded to MoEF by the PSSTE, Govt. of Punjab.</p>

	<p style="text-align: center;">17</p> <p style="text-align: center;">18</p>		<p>50 MLD CETP for Dyeing industries of Tajpur Road:-</p> <ul style="list-style-type: none"> ▪ PDA decided to execute the work of installation of CETP (Tajpur Road module) into two parts of 25 MLD each. 1st module is to be based on SBR technology, which is under construction. PDA has decided for availing Grant-In-Aid from MSME, application of same is yet to be submitted. ▪ The 2nd module of 25 MLD based on SBR technology followed by ZLD. PDA applied for Grant-In-Aid for 25 MLD module (ZLD based) costing Rs. 130 crores for Grant-In-Aid under IPDS scheme. This scheme is to be implemented in two phases. 1st phase based on SBR technology has approx. cost of Rs. 28 crores. ▪ In-principle approval for setting up of 2nd module of 25 MLD CETP by Punjab Dyers Association (Tajpur Road Module) has been given under Integrated Processing Development Scheme (IPDS) of Ministry of Textile, Govt. of India vide letter no. F No 1/14/2015-SITP Cell dated 19-10-2015.
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<p>3. 40 MLD CETP for dyeing industries of Focal Point, Ludhiana:-</p> <ul style="list-style-type: none"> • Proposal for grant in aid for 40 MLD CETP from Punjab Dyers Association (Focal Point) has been submitted to PPCB and the same has been submitted to Govt. of Punjab, Deptt. of Govt. of Punjab, Department of Science, Technology & Environment for getting commitment for State share from Deptt. of Finance, Govt. of Punjab. <p>4. 15 Acre land at Tajpur Road near the CETP is lying vacant, which is in the possession of PSIEC.</p> <ul style="list-style-type: none"> • 31 Dyeing units located in scattered area of Ludhiana may be shifted to this land, immediately.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
2.	Scout for improved technologies.	Continuous	<ul style="list-style-type: none"> ▪ PPCB has adopted a wastewater minimization programme for the reduction and reuse of waste water in dyeing industry of Ludhiana. ▪ The Board officers has guided 216 dyeing units and 02 other units. ▪ 159 units have made significant reduction in the wastewater / water consumption (22.8 MLD, since May, 2013). ▪ With the implementation of waste water minimization techniques, 18-20 % of fuel has been saved resulting in lesser air pollution. ▪ GMDIC informed that many units of Ludhiana have adopted / applied to improve technology through lean manufacturing scheme of Development Commissioner MSME(GOI).

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
3.	Awareness creation to increase green cover in industrial areas.	Continuous	<ul style="list-style-type: none"> ▪ 500 saplings have been distributed to Ludhiana Integrated Textile Park, Doraha. ▪ GM,DIC informed that recently plantation drive was carried out in Ludhiana Integrated Textile Part, Doraha, R&D Centre Focal Point, Ludhiana and NIFD, Focal Point, Ludhiana.
4.	Shifting of industries, which are located in the non-designed areas, to the designated areas	As per zoning regulation of Master Plan, Ludhiana	<p>The use of land or carrying out any development in that area otherwise than in conformity with Master Plan of the area is regulated u/s 79 of The Punjab Regional & Town Planning & Development Act, 1995 and the competent Authority may allow the continuance of any use of any land, for a period of not exceeding ten year, upto such terms and conditions as may be provided by regulations made in this behalf for the purpose and to the extent, for and to which it was being used on the date on which such a Master Plan came into operation. In the case of Ludhiana city, the Master Plan came into operation in the year, 2007 and the same shall be in operation upto August, 2017. The development authorities i.e. Municipal Corporation within the city area and GLADA beyond the Municipal Corporation limit are the Competent Authority to allow the continuation of any use in the non designated area. Therefore, these authorities shall indentify and shall take action for allowing / shifting of these industries existing in the non designated area / mix land use area after the expiry of the Master Plan.</p>

			<ul style="list-style-type: none">▪ The data available with the PPCB regarding the polluting units under red category has been supplied to the GM,DIC for giving plots on priority basis.▪ The site near village Dhanansu have been shortlisted for new Focal Point and referred to Secretary Department of Industries and Commerce, Punjab. The tenders have been floated for topographical survey and same will be finalized shortly.
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
5.	Provision of environment infrastructure in the various industrial estates and Focal Points in Ludhiana city including wastewater treatment facilities, improved water supply, road infrastructure, parking facilities and green cover within the industrial areas alongwith development of buffer zone along the residential areas.	Continuous	<ul style="list-style-type: none"> ▪ Work completed by PSIEC. ▪ For the areas of Phase IV & IV-A, Focal Point, DPR amounting to Rs. 9.99 Cr has been sent to MSNE development Institute, Ludhiana for the sanction of grant under MSE-CDP Scheme. ▪ A CETP based on Zero Liquid Discharge technology to treat the effluent from small scale electroplating industries has been set up Focal Point, Ludhiana. Presently, 1066 small scale electroplating industries have joined CETP. ▪ Continuous efforts are being made for the improvement in infrastructure in various Focal Point and Industrial Estates/Area.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
1.	Control of water pollution from dairy complexes located at Tajpur Road and Humbran Road and shifting of individual dairies located in the city limits to a suitable site outside MC limits and provide with adequate infrastructure	<ul style="list-style-type: none"> ▪ Installation of effluent treatment plant and providing proper arrangement for the treated wastewater for the two dairy complexes by 31/12/2010. ▪ Identification of site for shifting of scattered dairies by 31/12/2010. 	<p>Shifting of Scattered Dairies:-</p> <ul style="list-style-type: none"> ▪ DDPO, Ludhiana has been asked by M.C. Ludhiana on 6/1/2015 to get resolution passed by the Panchayat of Vill. Kadyana Khurad and fix the lease/rent rates of 95 acres available land for dairy complex. The Panyat of Village Kadyana Khurad has not passed the resolution. The MC is yet to finalize the land for shifting of dairies.

	<p>including effluent treatment plant and disposal of treated effluent.</p>	<ul style="list-style-type: none"> ▪ Preparation of DPR for new dairy complex by 31/12/2010. ▪ Floating of RFP for new dairy complex by 31/3/2011. ▪ Development of dairy complex alongwith environmental infrastructure by 30/9/2011. ▪ Shifting of scattered dairies by 31/12/2011. 	<ul style="list-style-type: none"> ▪ EIL engaged for abatement of polluting in Budha Nallah at Ludhiana has submitted a DPR. The proposal includes the setting up of primary treatment plants for dairy complexes. ▪ ETP of 3.6 MLD at Tajpur dairy complex has been proposed in the draft DPR submitted by EIL.
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
2.	Development of Engineered Municipal Solid Waste dump site and compliance of provisions of the Municipal Solid Waste (Management & Handling) Rules, 2000.	<ul style="list-style-type: none"> ▪ RFP finalization for municipal solid waste handling and management by 31/7/2010. ▪ Door to door collection and commission of facility by 31/3/2011. 	<ul style="list-style-type: none"> ▪ RFP document has been finalized. ▪ Door to Door collection of Municipal Solid Waste (MSW) of Ludhiana city started on 01.09.2012 by A2Z Waste Management Ludhiana. ▪ The Company has informed MC Ludhiana in its letter dated 08-02-2015 that Company is in touch with private Door to Door Garbage Collector workers. Under this Agreement, this company was duty bound to scientifically manage the Municipal Solid Waste for end to end Solution as per Municipal Solid Waste (Management & Handling) Rules 2000.

			<ul style="list-style-type: none"> ▪ But, as per Agreement, this company has failed to fulfill the Condition Precedent relating to it. Therefore, Concession Authority i.e. Municipal Corporation, Ludhiana has served a 45 days Termination Notice to A2Z Waste Management, Ludhiana on dated 1/7/2015 under Article 9 of the Concession Agreement dated 30-11-2011. After the lapse of 45 days period of Termination Notice, in the alternative arrangements, steps would be taken to streamline the work of Door to Door Collection ▪ Environment clearance from MOEF has been obtained for Jamalpur and Jainpur dump sites on 31.01.2013 and 01.04.2013, respectively.
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			<ul style="list-style-type: none">• PPCB has already initiated action against the Municipal Corporation, Ludhiana. A hearing was held before the Chairman of the Board on 04.08.2015 and it has been decided as under:-<ul style="list-style-type: none">i) The MC will provide map showing total land of cluster including 18 acres vacant land of the STP. Accordingly Punjab Pollution Control Board shall issue the authorization, already approved in the meeting of the committee constituted for the effective implementation of the provisions in Sub Rule (2) of Rule 6 of Municipal Solid Waste Rules,2000 held on 05.11.2014.
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			<p>iii) The ULB will provide fencing all around the dumping site within one month.</p> <p>iv) The ULB will ensure the door to door collection and segregation of the Municipal Solid Waste in future</p>
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
3.	To prepare and implement time target Remediation Plan for the dump sites located at Vill. Jamalpur and Vill. Jainpur, where the contamination soil and ground water has been found	<ul style="list-style-type: none"> ➤ Preparation and finalization of remediation plan by 30/09/2010. ➤ Implementation of remediation plan by 30/09/2011. ➤ Regular monitoring of ground water in the vicinity of dump sites. 	<p>Joint inspection by officers of MC Ludhiana and PPCB was made on 23.12.2014 and report is as under :</p> <ul style="list-style-type: none"> ▪ The waste from all collection centre is cleared twice in a day. ▪ No burning of dry garbage observed at site and hence complied with. ▪ Vehicles are covered with tarpaulin for transportation of municipal solid waste. ▪ In few patches, wire fencing was done as observed during last visit.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> ▪ Spray of Herbal sanitizer was done on regular basis. ▪ Fogging of melathene is being done on weekly basis. ▪ Earlier dump work was covered with soil. ▪ Piezometer has been installed at dumping site. ▪ 200 Ton is segregated on daily basis out of approximately 1100 Ton of the Solid Waste generated in the city.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
4.	Improvement of road infrastructure for better and smooth traffic movement.	Continuous	<ul style="list-style-type: none"> ▪ Construction of road along Budha Nallah. (1.67Km), Rs.13.20Crore -- Completed. ▪ Construction of slip roads (near Veer Palace, Vardhman Chowk & Jamalpur on Ludhiana- Chandigarh road) -- Completed. ▪ Widening of existing Gill road by providing interlocking tiles. (1.96 Cr.) -- 60% work Completed. ▪ Remodeling of Ganda Nallah -- 45% Work completed. ▪ Construction of Flyover at Partap Chowk on link road -- Work completed ▪ Construction of additional Road -- Work Completed ▪ Construction of 2 Pedestrian Under Passes on Ludhiana - Ferozepur road-- Completed.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> <li data-bbox="1106 608 2103 927">▪ Construction of Pakhowal road ROB (near Convent School Railway Crossing) along with Flyover at intersection of Hero Bakery. (Proposed for 2012-13 due to Dana Mandi ROB and Sidhwan canal road widening) -- Study being done by M/s. RITES. <li data-bbox="1106 975 2103 1134">▪ This work will be started after completion of Road along Sidhwan Canal as whole traffic has been diverted on this Road. <li data-bbox="1106 1182 2103 1417">▪ Construction of Under Pass (VUP) at Bharat Nagar Chowk -- Proposal has been referred to NHAI.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<p>Construction of 5 Ultra Modern Foot Over Bridge :</p> <ul style="list-style-type: none"> i. Red Cross Bhavan on Mall road. ii. Out side Bus Stand on Link road. iii. Bharat Nagar chowk (Ludhiana - Ferozepur road) iv. PAU Gate No. 2 (Ludhiana - Ferozepur road) v. Ansal Plaza (Ludhiana - Ferozepur road) <ul style="list-style-type: none"> ▪ Work to be executed by PIDB <p>New proposal for const. of flyover has been prepared Rs. 24.00 Crore and funds will be arranged from HUDCO Loan.</p> <p>(PIDB is to fund the project and the same shall be done on BOT basis).</p>

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> ▪ Improvement of entry points at Sherpur Chowk -- 100% work completed. ▪ 8 - lanning Ludhiana – (Ferozepur road - Sidhwan Canal to Octroi limit) -- Completed ▪ Construction of Dana Mandi ROB : Work to be taken up after the completion of Southern Bye Pass. ▪ Construction of grade separator at Jamalpur on Ludhiana - Chandigarh road. (under pipe line alignment) – The proposal has been referred to NHAI by State Government

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> ▪ Construction of ROB in place of existing Lakkar Bridge on Ludhiana - Amritsar Rail Section.
5.	Upgrading traffic lights for smooth traffic movement.	<ul style="list-style-type: none"> ➤ Identification of congested traffic cross-sections by 30/9/2010. ➤ Upgradation and implementation of plan by 31/12/2010. 	<p>(A) 11 Traffic Signals have been installed at junctions:</p> <ul style="list-style-type: none"> i. Dugri near Canal Bridge ii. ESI Hospital iii. Transport Nagar. iv. Police Colony on CHD Road. v. Mall Road. vi. Hambran Road Haibowal Chowk vii. Hambran Road Kitchlu Nagar Cut

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			ix Vishkarma Chowk x Gill Road near Zone-C. xi Gill Road near Jaimal Singh Rd. Cut. (B) TRAFFIC LIGHTS PROPOSED TO BE INSTALLED ON FERROZEPUR ROAD: I. Verka Milk Plant Cut II. Agar Nagar Cut III. Barewal Cut IV. Lodhi Club Cut V. Rajguru Nagar Cut. VI. Mintgumri Chowk, Model Town. VII. Pakhowal Road near Canal Bridge.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
6.	Rainwater harvesting	Continuous	<p>MC Ludhiana has adopted amended Rainwater harvesting well security charges vide Resolution No. 1069 Dt.18-01-2011.</p> <ul style="list-style-type: none"> ▪ Rs. 25,000 from all commercial, Industrial and Institutional buildings of area less than 500 Sq yards. ▪ Rs.50,000 from all commercial, industrial and institutional buildings of for area more than 500 Sq yards. ▪ Building plans of plot area more than 200 sq. yard are passed with the condition to provide rain water harvesting system in their individual houses.

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015										
7.	Sanitation Improvement in slum areas	Continuous	<ul style="list-style-type: none"> ▪ The available funds are Rs. 12.00 Crore ▪ More funds are required to complete the sewerage system in slum area. 										
8.	Green belt/ buffer Zone in industrial areas from residential zones.	<ul style="list-style-type: none"> ➤ First phase of plantation by 31/8/2010. ➤ Second phase of plantation by 28/2/2011. ➤ Plantation shall be done regularly. 	<p>M.C., Ludhiana reported that target of the Plantation for 2014-2015 was No. of 33,042 saplings. Total 27549 sapling have been planted till 31-12-2014 in the city as per details given below:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Zone-A</td> <td style="text-align: right;">4890 No.</td> </tr> <tr> <td>Zone-B</td> <td style="text-align: right;">8551 No.</td> </tr> <tr> <td>Zone-C</td> <td style="text-align: right;">4422 No.</td> </tr> <tr> <td>Zone-D</td> <td style="text-align: right;">9686 No.</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">27549 No.</td> </tr> </table> <p>15 chowks already handed over to industrial houses, 2 more Chowks have been given to the industrial houses for the Maintenance.</p>	Zone-A	4890 No.	Zone-B	8551 No.	Zone-C	4422 No.	Zone-D	9686 No.	Total	27549 No.
Zone-A	4890 No.												
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Zone-D	9686 No.												
Total	27549 No.												

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
9.	Strengthening of Budha Nallah		100% completed.
10.	Laying of sewer lines/ plugging of direct discharge of sewage into Budha Nallah		<p>1. Transport Nagar Disposal: To stop this disposal, an estimate amounting to Rs.83.76 Lac has been received from PWSSB Rs.40 Lac have already been transferred to PWSSB. Work to be completed by PWSSB.</p> <p>2. Tibba Road Disposal: For laying rising main, permission of road cutting from NHAI has been received and laying of rising main work is completed. Further work is in progress and will be completed by 31-3-2015.</p> <p>3. Punjab Pollution Control Board has identified 17 domestic disposal Points discharging into Budha Nallah.</p> <p>EIL, New Delhi has been allotted the work of preparation of DTP for laying of intercepting sewer to capture all the 17 disposal.</p>

	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015												
			<p>Upto date Progress regarding laying of sewer :</p> <table border="1" data-bbox="1144 692 2085 1123"> <tr> <td colspan="2" data-bbox="1144 692 2085 810"></td> </tr> <tr> <td data-bbox="1144 810 1608 874">Sewer line 49.97 Km</td> <td data-bbox="1608 810 2085 874">48.96 Km (98%)</td> </tr> <tr> <td data-bbox="1144 874 1608 938">Sewer line 467.95 Km</td> <td data-bbox="1608 874 2085 938">456.20 Km (97.5%)</td> </tr> <tr> <td data-bbox="1144 938 1608 1002">STP : 1 at Balloke</td> <td data-bbox="1608 938 2085 1002">100% (commissioned)</td> </tr> <tr> <td data-bbox="1144 1002 1608 1066">STP : 1at Balloke</td> <td data-bbox="1608 1002 2085 1066">Commissioned</td> </tr> <tr> <td data-bbox="1144 1066 1608 1123">STP : 1at Bhattian</td> <td data-bbox="1608 1066 2085 1123">Commissioned</td> </tr> </table> <p>The DPR for abatement of Pollution from Budha Nallah has been prepared by Engineering India Ltd, New Delhi</p>			Sewer line 49.97 Km	48.96 Km (98%)	Sewer line 467.95 Km	456.20 Km (97.5%)	STP : 1 at Balloke	100% (commissioned)	STP : 1at Balloke	Commissioned	STP : 1at Bhattian	Commissioned
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	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
11.	Awareness creation to increase green cover in industrial areas.	Continuou s	Total No. of 33,042 sapling will have been planted in the city. Total No. of 20,050 sapling have been planted till 29-7-2015 in the city. Balance plants will be planted continuously.
12.	Provision of environment infrastructure in the various industrial estates/Focal Points in Ludhiana city including wastewater treatment facilities, improved water supply, road infrastructure, parking facilities and green cover within the industrial areas alongwith development of buffer zone along the residential areas.	Continuou s	<ul style="list-style-type: none"> ▪ As per report given by PWSSB, in Focal Point Phase-IV, IV-A, the storm sewer is to be laid by with the cost of Rs. 208 Lac, out of which, Rs.100.00 Lac has been received from MC Ludhiana and work is in progress. ▪ Rs. 95.44 lac. have been spent in the work ▪ The remaining work of Sewerage system shall be completed after receipt of funds from MC, Ludhiana

	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
13.	City Bus Service in Ludhiana city.		<ul style="list-style-type: none"> ▪ City Bus operations were launched on 17.12.2011 with 10 buses in Ludhiana. ▪ 105 more buses has been purchased. Out of 105 buses, 85 buses have been made operational. ▪ Delivery of 75 more buses is likely to be taken from the bus manufacture companies by 31/12/2015.
14.	Shifting of industries located in the non-designated areas, to the designated areas.		The compliance is covered under the points related to the Department of Industries at Sr. No. 4.

Progress Report as on 30/09/2015

	Activities for abatement of environmental pollution	Target date	
1.	Installation of CETP for Dyeing Units	Regular persuasion	The compliance has already been mentioned at Point no. 1. of Deptt. of Industries/PSIEC.
2.	Implementation of standards for treated wastewater at the outlet of CETP.	Continuou s monitoring	<p>A. CETP for small scale Electroplating/ Phosphating Units:-</p> <ul style="list-style-type: none"> ▪ With the concerted efforts of PPCB, a CETP based on Zero Liquid Discharge technology has been set up in focal point, Ludhiana to treat the effluent from small scale electroplating industries. ▪ A SPV namely LETS is the apex body for the operation of CETP for the small scale electroplating industries. ▪ M/s JBR Technologies Pvt. Ltd., Ludhiana is the operator of the CETP based on Zero Liquid Discharge (ZLD) Technology ▪ On the persuasion of PPCB, the CETP Operator has upgraded and added 1 no. Reaction tank of 30 KL capacity and 2 no. tube settlers of 20 KL capacity each. ▪ The CETP is working efficiently. The treated / recovered water is recycled in the process of the nearby by dyeing industries and presently, no effluent from electroplating industries is discharged in Budha Nallah. PPCB is monitoring the quality of Budha Nallah on monthly basis and no metal content has been observed into Budha Nallah.

Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
		<p>The CETP Operator has also added :</p> <ul style="list-style-type: none"> ▪ 24 membranes in parallel to the Reverse Osmoses (RO) ▪ 24 no membranes are being added in the second stage RO. ▪ The Multi Effect Evaporator (MEE) has been upgraded. ▪ Due to the strict monitoring/ surveillance of the Board, 1459 electro plating of industries (1078 of Ldh, 257 of Jal, 44 of Asr and 80 of Mohali) have become the members of CETP till the end of September, 2015 and 112.89 Lac Ltrs of effluent (94,79,221 Ltr of Ldh, 13,18,750 Ltr of Jal, 63,600 Ltr of Asr and 4,27,725 Ltr of Mohali) has reached CETP for treatment during the month of September, 2015. <p>B) Reprocessing of effluent arising from small scale Pickling Units/Wire Drawing Units :-</p> <p>588 small scale pickling and wire drawing industries (494 of Ldh, 27 of Jal and 22 of Asr) have joined Re-processing unit installed at Kohara, Ludhiana till the end of September, 2015.</p>

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
3.	Monitoring of the capacity enhancement of the existing sewage treatment plant.	Regular persuasion	Punjab Pollution Control Board is monitoring the STPs regularly on monthly basis. The monitored parameter are discussed in the meeting held under the Chairmanship of senior functionaries of the State.
4.	Installation / up gradation of ETPs/APCDs.	<ul style="list-style-type: none"> - All the industries to install ETP/APCD by 31/12/2010. - Major upgradation in the ETP/APCD will be got carried out by 31/12/2010. 	<ul style="list-style-type: none"> ▪ All the 14 Large/ Medium, Electroplating industries have provided ETP based on ZLD Technology. No effluent from these industries is discharged into Budha Nallah. ▪ Small Scale Electroplating units have joined CETP. No effluent from these industries is discharged into Budha Nallah. ▪ 588 small scale pickling and wire drawing industries have joined Re-processing unit installed at Kohara, Ludhiana. No effluent from these industries is discharged into Budha Nallah. ▪ All the industries have upgraded their APCD. Wherever it was found necessary to upgraded the same.

Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015																															
	Minor upgradation in the ETP/APCD will be got carried out by 30/9/2010.	<ul style="list-style-type: none"> ▪ Upgraded work in ETP/ APCD is completed. ▪ All the 290 Large/Medium/ Small Scale dyeing industries have provided individual ETPs and these are monitored regularly. However, to ensure the standards for all the times and monitoring of these industries at single outlet, the status of 3 CETPs of capacity 15 MLD, 50 MLD & 40 MLD for 4 dyeing industries clusters is as under : 																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td style="width: 20%;">1.</td> <td style="width: 25%;">Tajpur Road</td> <td style="width: 5%;">90</td> <td style="width: 5%;">30</td> <td style="width: 40%;">2 modules of 25 MLD each</td> <td style="width: 10%;">20%, 30.09.2015</td> </tr> <tr> <td></td> <td>2.</td> <td>Rahon Road</td> <td>22</td> <td>11</td> <td>(Cost Rs. 158 Cr)</td> <td></td> </tr> <tr> <td></td> <td>3.</td> <td>Bahadurke Road</td> <td>22.</td> <td>15</td> <td>15 MLD (Cost Rs. 105.69 Cr., ZLD based)</td> <td>10%, 30.09.2015</td> </tr> <tr> <td></td> <td>4.</td> <td>Focal Point</td> <td>62</td> <td>40</td> <td>40 MLD (Cost Rs. 79 Cr.)</td> <td>30%, 30.09.2015</td> </tr> </table>							1.	Tajpur Road	90	30	2 modules of 25 MLD each	20%, 30.09.2015		2.	Rahon Road	22	11	(Cost Rs. 158 Cr)			3.	Bahadurke Road	22.	15	15 MLD (Cost Rs. 105.69 Cr., ZLD based)	10%, 30.09.2015		4.	Focal Point	62	40	40 MLD (Cost Rs. 79 Cr.)	30%, 30.09.2015
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Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015												
5.	Ensuring proper management and handling of hazardous waste.	<ul style="list-style-type: none"> All the industries will be persuaded to shift their storageable hazardous waste to common TSDF by 31/12/2010. M/s Nimbuan Greenfield (Punjab) Ltd. will be persuaded to shift the incinerable waste by 30/9/2010 to other facilities and further be asked to install incinerator at the facility by 31/3/2011. 	<p>Quantity of Hazardous Waste :</p> <table border="1" data-bbox="1243 582 2083 901"> <tr> <td colspan="3"> </td> </tr> <tr> <td>Jan 2013 to Dec, 2013</td> <td>6643.487</td> <td>10.903</td> </tr> <tr> <td>Jan 2014 to Dec, 2014</td> <td>6475.63</td> <td>29.508</td> </tr> <tr> <td>Jan 2015 to Sept, 2015</td> <td>5257.14</td> <td>28.1</td> </tr> </table> <p>The hazardous waste of Ludhiana is being lifted regularly by TSDF, Nimbua.</p> <ul style="list-style-type: none"> The data indicate that after 2012, quantity of hazardous waste being lifted is almost uniform and is around 6500-6700 TPA. 				Jan 2013 to Dec, 2013	6643.487	10.903	Jan 2014 to Dec, 2014	6475.63	29.508	Jan 2015 to Sept, 2015	5257.14	28.1
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Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015
6.	Achievement of zero liquid discharge technology by large & medium scale electroplating industries.	30/9/2010	All the 14 large /medium electroplating units have installed ETP based on ZLD technology and are being monitored regularly for the achievement of Zero Liquid Discharge. Presently, no effluent from these industries is discharged into Sewerage system leading to Budha Nallah. .

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015			
7.	Monitoring / ensuring the regular operation of effluent treatment plants and air pollution control devices installed by industries / establishments.	Continuou s	The monitoring details of the industries conducted by PPCB :			
Inspections			3922	3208	2388	
Total effluent samples collected			460	360	389	
Samples not meeting with the standards			161	79	75	
Total emissions samples collected			253	288	374	
Samples not meeting with the standards			21	32	40	
Notices u/s 33-A of Water Act, 1974 issued for not meeting with standards and other serious violations			436	385	236	
Notices u/s 31-A of Air Act, 1981 issued for not meeting with standards and other serious violations			152	114	155	
Directions for closure u/s 33-A of Water Act, 1974			99	90	22	
Directions for closure u/s 31-A of Air Act, 1981			25	18	6	

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015
8.	Upgradation of emission collection system of Induction furnaces.	<ul style="list-style-type: none"> ▪ Preparation of technical report by IIT, Roorkee by 30/9/2010. ▪ Installation of Pilot Plant by 31/12/2010. ▪ Duplication of technology by 30/6/2011. 	<p>Based on the study carried out by PSCST, Chandigarh in one of the Induction Furnace, M/s Nabha Steel Ltd, Mandi Gobindgarh, the necessary upgradation in the existing APCD shall be replicated for 25 Induction Furnaces of Ludhiana. The industries are being persuaded to adopt the design of PSCST.</p>
9.	Monitoring of ambient air quality, ground water and surface water quality.	Continuous monitoring of ambient air, monthly monitoring of ground and surface water will be carried out.	<ul style="list-style-type: none"> ▪ PPCB is continuously monitoring the ambient air quality of Ludhiana city for which 4 ambient air quality monitoring stations have been installed. ▪ Decreasing trends of RSPM, SO₂ & NO_x have been observed.

(Handwritten signature)
3/11/15

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015																								
			<p data-bbox="853 496 1720 539">Annual average concentration of RSPM</p> <table border="1" data-bbox="875 568 2056 1142"> <tbody> <tr> <td data-bbox="875 719 1014 802">2012</td> <td data-bbox="1014 719 1267 802">246 µg/M³</td> <td data-bbox="1267 719 1536 802">219 µg/M³</td> <td data-bbox="1536 719 1789 802">184 µg/M³</td> <td data-bbox="1789 719 2056 802">251 µg/M³</td> </tr> <tr> <td data-bbox="875 802 1014 885">2013</td> <td data-bbox="1014 802 1267 885">218 µg/M³</td> <td data-bbox="1267 802 1536 885">184 µg/M³</td> <td data-bbox="1536 802 1789 885">174 µg/M³</td> <td data-bbox="1789 802 2056 885">233 µg/M³</td> </tr> <tr> <td data-bbox="875 885 1014 968">2014</td> <td data-bbox="1014 885 1267 968">191 µg/M³</td> <td data-bbox="1267 885 1536 968">105 µg/M³</td> <td data-bbox="1536 885 1789 968">137 µg/M³</td> <td data-bbox="1789 885 2056 968">176 µg/M³</td> </tr> <tr> <td data-bbox="875 968 1014 1134">Jan, 2015 to Sep, 2015</td> <td data-bbox="1014 968 1267 1134">177 µg/M³</td> <td data-bbox="1267 968 1536 1134">113 µg/M³</td> <td data-bbox="1536 968 1789 1134">101 µg/M³</td> <td data-bbox="1789 968 2056 1134">181 µg/M³</td> </tr> </tbody> </table> <p data-bbox="853 1217 2085 1310">Station at M/s Nahar Spinning Mills Ltd., was established in the year 2011.</p>					2012	246 µg/M ³	219 µg/M ³	184 µg/M ³	251 µg/M ³	2013	218 µg/M ³	184 µg/M ³	174 µg/M ³	233 µg/M ³	2014	191 µg/M ³	105 µg/M ³	137 µg/M ³	176 µg/M ³	Jan, 2015 to Sep, 2015	177 µg/M ³	113 µg/M ³	101 µg/M ³	181 µg/M ³
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Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015																																								
			<p>PPCB is monitoring the STPs of Ludhiana on monthly basis. The analysis results for the month Aug, 2015 are as under:</p> <p>STP Monitoring :</p> <table border="1" data-bbox="963 758 2049 1380"> <thead> <tr> <th></th> <th></th> <th>BOD</th> <th>COD</th> <th>TSS</th> <th>F. Coli</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Jamalpur 48 MLD</td> <td>38</td> <td>140</td> <td>56</td> <td>6000</td> </tr> <tr> <td>2</td> <td>Bhattian 111 MLD</td> <td>32</td> <td>104</td> <td>48</td> <td>3000</td> </tr> <tr> <td>3</td> <td>Bhattian 50 MLD</td> <td>9</td> <td>40</td> <td>18</td> <td>900</td> </tr> <tr> <td>4</td> <td>Ballocke 152 MLD</td> <td>12</td> <td>51</td> <td>36</td> <td>1300</td> </tr> <tr> <td>5</td> <td>Ballocke 105 MLD</td> <td>34</td> <td>120</td> <td>48</td> <td>-</td> </tr> </tbody> </table>							BOD	COD	TSS	F. Coli	1.	Jamalpur 48 MLD	38	140	56	6000	2	Bhattian 111 MLD	32	104	48	3000	3	Bhattian 50 MLD	9	40	18	900	4	Ballocke 152 MLD	12	51	36	1300	5	Ballocke 105 MLD	34	120	48	-
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			<p>Budha Nallah Water Monitoring :</p> <table border="1" data-bbox="965 480 2029 695"> <thead> <tr> <th></th> <th>T.Cr</th> <th>Ni</th> <th>Cd</th> <th>Pb</th> <th>As</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> </tr> </tbody> </table> <p>Quality of Canal Water originating from Harike Head Works (CPCB Study)</p> <table border="1" data-bbox="936 810 2098 1390"> <thead> <tr> <th></th> <th>BOD</th> <th>DO</th> <th>COD</th> <th>pH</th> <th>Cr.</th> <th>Ni.</th> <th>Pb</th> <th>F.Coli</th> </tr> </thead> <tbody> <tr> <td>1 Rajathan Feeder Canal</td> <td>01</td> <td>7.3</td> <td>BDL</td> <td>7.3</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>18000</td> </tr> <tr> <td>2 Ferozepur Sirhind Feeder Canal</td> <td>03</td> <td>7.2</td> <td>14</td> <td>7.2</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>20000</td> </tr> </tbody> </table>								T.Cr	Ni	Cd	Pb	As	1	ND	ND	ND	ND	ND		BOD	DO	COD	pH	Cr.	Ni.	Pb	F.Coli	1 Rajathan Feeder Canal	01	7.3	BDL	7.3	BDL	BDL	BDL	18000	2 Ferozepur Sirhind Feeder Canal	03	7.2	14	7.2	BDL	BDL	BDL	20000
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Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015
10.	Preparation of inventory of E-Waste.	31/3/2011	<ul style="list-style-type: none"> ▪ E-waste (Management & Handling) Rules, 2011 become effective recently in May, 2012. ▪ Board has already approved 6 collection centres for the handling of e-waste. ▪ Authorization granted to one producer. ▪ The Board is taking up the matter with various stakeholders for providing e-waste dismantling or recycling facility in the State. ▪ REEL has already obtained authorization for dismantling/ refurbishing facility and has further proposed to set up Integrated E-Waste Management Facility at the existing location of TSDF, Nimbua.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/9/2015										
11.	Upgradation of Air and Water Monitoring network	31/3/2011	The Ground Water Quality Monitoring locations have been increased from 6 to 11 and the monitoring data for the month of April, 2015 is as under :										
			1	TSSM Sr. Sec School Shimlapuri, Ludhiana	7.4	308	76	0.23	0.16	26	ND	ND	ND
			2	Handpump/Shallow tubewell in area on Sua Road near Dhandari Kalan, Ludhiana	7.0	489	125	0.15	0.13	69	ND	ND	ND
			3	Handpump Shallow tubewell in the area on Janta Nagar, Ludhiana	7.5	291	80	0.13	0.37	27	ND	ND	ND
			4	Hero Cycle (Adj. Petrol Pump) Ludhiana	6.9	790	197	0.29	0.24	205	ND	ND	ND
			5	Dusshera Ground Indl. Estate, Ludhiana Near Seth Industrial Corp. Public Tubewell	7.1	531	143	0.24	0.11	74	ND	ND	ND
			6.	Dashmesh Nagar Gali no.12, Gurdwara, Ludhiana	7.4	375	93	0.25	0.46	73	ND	ND	ND

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015																																																							
			<table border="1"> <tr> <td data-bbox="763 496 853 687">7</td> <td data-bbox="853 496 1167 687">Dairy Complex, Tajpur Road, Ludhiana opp. Satish Dairy near Amrit Dharam Kanda.</td> <td data-bbox="1167 496 1256 687">7.2</td> <td data-bbox="1256 496 1391 687">393</td> <td data-bbox="1391 496 1503 687">97</td> <td data-bbox="1503 496 1592 687">0.25</td> <td data-bbox="1592 496 1704 687">0.46</td> <td data-bbox="1704 496 1816 687">75</td> <td data-bbox="1816 496 1906 687">ND</td> <td data-bbox="1906 496 1995 687">ND</td> <td data-bbox="1995 496 2098 687">ND</td> </tr> <tr> <td data-bbox="763 687 853 783">8</td> <td data-bbox="853 687 1167 783">Bhagwan Singh Dashmesh Nagar, Ludhiana</td> <td data-bbox="1167 687 1256 783">7.6</td> <td data-bbox="1256 687 1391 783">298</td> <td data-bbox="1391 687 1503 783">74</td> <td data-bbox="1503 687 1592 783">0.46</td> <td data-bbox="1592 687 1704 783">0.18</td> <td data-bbox="1704 687 1816 783">23</td> <td data-bbox="1816 687 1906 783">ND</td> <td data-bbox="1906 687 1995 783">ND</td> <td data-bbox="1995 687 2098 783">ND</td> </tr> <tr> <td data-bbox="763 783 853 879">9</td> <td data-bbox="853 783 1167 879">Haibowal Dairy Complex Near Jagga de Dairy, Ludhiana</td> <td data-bbox="1167 783 1256 879">7.2</td> <td data-bbox="1256 783 1391 879">411</td> <td data-bbox="1391 783 1503 879">101</td> <td data-bbox="1503 783 1592 879">0.20</td> <td data-bbox="1592 783 1704 879">0.21</td> <td data-bbox="1704 783 1816 879">64</td> <td data-bbox="1816 783 1906 879">ND</td> <td data-bbox="1906 783 1995 879">ND</td> <td data-bbox="1995 783 2098 879">ND</td> </tr> <tr> <td data-bbox="763 879 853 959">10</td> <td data-bbox="853 879 1167 959">PAU Research Fields, Ludhiana.</td> <td data-bbox="1167 879 1256 959">7.2</td> <td data-bbox="1256 879 1391 959">414</td> <td data-bbox="1391 879 1503 959">100</td> <td data-bbox="1503 879 1592 959">0.13</td> <td data-bbox="1592 879 1704 959">0.11</td> <td data-bbox="1704 879 1816 959">43</td> <td data-bbox="1816 879 1906 959">ND</td> <td data-bbox="1906 879 1995 959">ND</td> <td data-bbox="1995 879 2098 959">ND</td> </tr> <tr> <td data-bbox="763 959 853 1086">11</td> <td data-bbox="853 959 1167 1086">Shukla Tea Stall (now Police Station backside of Gazebo), Ludhiana</td> <td data-bbox="1167 959 1256 1086">6.8</td> <td data-bbox="1256 959 1391 1086">769</td> <td data-bbox="1391 959 1503 1086">192</td> <td data-bbox="1503 959 1592 1086">0.17</td> <td data-bbox="1592 959 1704 1086">0.12</td> <td data-bbox="1704 959 1816 1086">101</td> <td data-bbox="1816 959 1906 1086">ND</td> <td data-bbox="1906 959 1995 1086">ND</td> <td data-bbox="1995 959 2098 1086">ND</td> </tr> </table> <p data-bbox="763 1150 2098 1469"> Note: 1. Pesticides i.e. Alpha BHC, Beta BHC ,Gama BHC(Lindane), OP DDT,PP DDT, Alpha Endosulphan, Beta Endosulphan ,Dieldrin, Carboryl (Carbamete), 2 - 4D,Aldrin,Anilophos,Chloropyriphos were ND in all the samples. 2. Metals As , Ni, Cu, Hg, T. Cr, Cd & Pb were not detected in all of the samples. ▪ Continuous Ambient Air Quality monitoring Stations are likely to be installed at Ludhiana. </p>	7	Dairy Complex, Tajpur Road, Ludhiana opp. Satish Dairy near Amrit Dharam Kanda.	7.2	393	97	0.25	0.46	75	ND	ND	ND	8	Bhagwan Singh Dashmesh Nagar, Ludhiana	7.6	298	74	0.46	0.18	23	ND	ND	ND	9	Haibowal Dairy Complex Near Jagga de Dairy, Ludhiana	7.2	411	101	0.20	0.21	64	ND	ND	ND	10	PAU Research Fields, Ludhiana.	7.2	414	100	0.13	0.11	43	ND	ND	ND	11	Shukla Tea Stall (now Police Station backside of Gazebo), Ludhiana	6.8	769	192	0.17	0.12	101	ND	ND	ND
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Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
1.	Plan for effective traffic management including provisions of traffic lights, notification of one way traffic, parking of vehicles at the designated place challan of polluting vehicles etc.	Traffic management plan to be prepared by 30/9/2010 and implementation of plan shall be continuous.	<ul style="list-style-type: none"> ▪ A Comprehensive Mobility Plan (CMP) for Ludhiana has been prepared by MC, Ludhiana. ▪ A city level committee namely Ludhiana UMTA (Unified Metropolitan Transport Authority) has been set up under the Chairmanship of Deputy Commissioner, Ludhiana. ▪ In a meeting of Ludhiana UMTA held on 28.11.2014, Assistant Commissioner (s), MC, Ludhiana has been appointed as Nodal officer for CMP program of Ludhiana. ▪ Accordingly, a meeting of all stake holders of CMP Ludhiana was convened on 09.01.2015 and the same is under consideration with MC, Ludhiana

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
2.	Improvement in public transport system and phasing out of old polluting commercial transport vehicles especially auto / vikrams.	<ul style="list-style-type: none"> ➤ First phase of city Bus service to start by 31/12/2010. ➤ Second phase to be implemented by 30/6/2011. ➤ Phasing out of polluting / old commercial transport vehicles shall be continuous. 	<ul style="list-style-type: none"> ▪ City Bus operations were launched on 17.12.2011 with 10 buses in Ludhiana. ▪ 105 more buses has been purchased. Out of 105 buses, 85 buses have been made operational. ▪ Delivery of 75 more buses is likely to be taken from the bus manufacture companies by 31/12/2015.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
3.	Plan for shifting to cleaner fuels viz. CNG etc.	To prepare plan for shifting to cleaner fuels like LPG & CNG by 31/12/2010.	<ul style="list-style-type: none"> • CNG is not available in the State of Punjab • No pipeline CNG laid in Ludhiana • Due to non-availability of CNG gas, the Hon'ble High Court in Civil Writ Petition No. 13490 of 2008, Jatinder Moudgill V/s State of Punjab & Others has allowed to ply the diesel fuel based Buses in Ludhiana.
4.	Monitoring of Vehicles.	Continuous	14,226 vehicles were challaned for not obtaining pollution under control certificate w.e.f 01.01.2013.
5.	Banning of pressure horns.	Continuous implementation	2,368 vehicles were challaned for using pressure horns w.e.f 01.01.2013.
6.	Checking on usage of adulterated fuel and impounding of such vehicles.	Continuous	Checking of vehicles is done regularly and no vehicle was found using adulterated fuel.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015																				
1.	Increased monitoring of vehicles running without pollution under control certificate.	Continuous	14,226 vehicles were challaned for not obtaining pollution under control certificate w.e.f 01.01.2013.																				
2.	Formation and implementation of proper traffic management plan for smooth flow of traffic.	30/9/2010	<p>Traffic management plan is being implemented for smooth flow of traffic in Ludhiana.</p> <p>Details of the challanes</p> <table border="1" data-bbox="1178 836 2092 1114"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Drunken driving</td> <td>441</td> <td>1100</td> <td>1541</td> </tr> <tr> <td>Wrong Parking</td> <td>19852</td> <td>25469</td> <td>45321</td> </tr> <tr> <td>Over speeding</td> <td>270</td> <td>5258</td> <td>5528</td> </tr> <tr> <td>Total</td> <td>22576</td> <td>33841</td> <td>52390</td> </tr> </table>					Drunken driving	441	1100	1541	Wrong Parking	19852	25469	45321	Over speeding	270	5258	5528	Total	22576	33841	52390
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3.	Implementation of the Noise Pollution Rules, 2000 for control of noise from D.G. sets and other non-point sources.	Continuous	2,368 vehicles were challaned for using pressure horns from 01.01.2013.																				

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015						Total		
			Name of Range	Matewara	Matewara	Matewara	Ludhiana	Ludhiana		Ludhiana	Ludhiana
1.	Preparation of afforestation plan for increasing forest/ green cover in areas under their jurisdiction.	<ul style="list-style-type: none"> ➤ Identification of vacant land and preparation of plan by 31/07/2010. ➤ First major drive for plantation by 31/8/2010. ➤ Second major drive for plantation by 28/2/2011. 	Year	2008-09	2009-10	2010-11	2010-11	2010-11	2012-13	2013-14 & 2014-15	
			Scheme	F.T 10 Punjab Forestry and water Shed Development	F.T 10 Punjab Forestry and water Shed Development	CAMPA	CAMPA	F.T 10 Punjab Forestry and water Shed Development	F.T 10 Punjab Forestry and water Shed Development	--	
			Location	0-15	15-46	46-50	60-157B/s	60-157B/s	36-46 B/S	--	
			Area (in ha.)	10	18	5	15	10	5	--	63
			Plantation	10000	18000	5000	15000	10000	5000	--	63000
			Survival (in %)	70%	70%	80%	80%	70%	85%	--	
			Plants Replaced during 2012-13	3000	3000	1000	3000	2000		--	13000

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015					
			Further, the status of the development of plantation in the year 2010-11 to 2014-15 under various schemes is as under:-					
1	NREGA, Supply of Plants		228985	101411	42767	0	26530	399513
2	Plantation under CAMPA		20000	76000	40000	0	0	136000
3	Farm Forestry		41067	31000	40000	25496	41798	179361
4	Non Forest Govt. Land		25000	15000	20000	0	0	60000
5	Free Supply		35000	26000	24900	6807	90848	183555
6	Green Action Plan		--	26500	35000	0	0	61500
7	Compensatory Afforestation		--	25000	0	0	60081	85081
8	JICA-supply of plants		--	10000	26806	0	0	36806
9	E.T. 10 forestry watershed Dev. Project & promotion		--	--	--	--	--	0
a)	Plantation on Govt. Land		--	--	50000	45000	0	95000
b)	Plantation on N.F.G land		--	--	20000	0	0	20000
10	Plantation under green Punjab Mission		--	--	35000	30000	0	65000
11	Free supply of plants to Dera Sacha Sauda		--	--	7084	36950	0	44034
12	Sambhav Foundation Ltd (NGO)		--	--	0	0	121000	121000
	Total		350052	310911	341557	144253	340077	1486850

Sr. No.	Activities for of abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
2.	Rendering training / seminars / awareness camps for increasing green cover in city.	Continuous	On Event of "Earth Hour", plantation drive was organized on 20-7-2014 by SAMBHAV FOUNDATION (NGO) & Forest Department and 121000 trees were planted during 2014-15.
3.	Providing more plants / saplings free of cost in Ludhiana.	Continuous	In the month of July, 2014, 121000 Plants have been planted by N.G.O. namely SAMBHAV FOUNDATION
4.	A systematic study to keep the track of status of flora and fauna and to prepare inventory for the same.	31/3/2011	A study w.r.t. to track of status of flora and fauna is yet to be conducted by Deptt. of Forests.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
1.	Construction of by-pass along Canal.	28/2/2012	<ul style="list-style-type: none"> ▪ 91% construction work completed.
2.	Improvement in road conditions and provisions of green belt along the road.	Continuous	The DFO will act as a Nodal Officer in this regard and will provide maximum saplings for plantation work in coming months to the PWD, Municipal Corporation and other agencies so as to provide maximum plantation along roads .

Sr. No.	Activities for of abatement environmental pollution	Target date	Progress Report as on 30/09/2015
1.	To act as facilitator for installation of common effluent treatment plant for dyeing industries.		The information is already covered under the points related to Punjab Pollution Control Board and industry department. The Distt. Administration assured to provide any assistance at all the times.
2.	To impose complete ban on the stubble burning within the 10 Km from the periphery of Ludhiana city.	Every cultivating season	<ul style="list-style-type: none"> ▪ For prohibiting the burning of paddy straw in the State of Punjab, notification no. 946 dated 22.10.2013 has been issued by the Govt. of Punjab. ▪ 7 Bio-mass based projects of capacity 62.5 MW Power Plants are in operation. ▪ 13 Bio-mass based projects of capacity 147 MW Power Plants are under execution. Likely to be commissioned by DEC, 2016 ▪ 30 Bio-mass based projects of capacity 300 MW Power Plants are under planning and shall be installed by DEC., 2017.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> <li data-bbox="1039 469 2098 608">▪ PPCB continuously gives awareness campaign during paddy harvesting from 22 Oct., to 4 Nov., daily in 6 newspapers. <li data-bbox="1039 663 2098 911">▪ Deptt of Agriculture gives programme for mobilization of farmers by deptt. to stop burning of paddy straw. 44 Distt Level, 316 Block Level and 4759 Village level training camps were organized. <li data-bbox="1039 967 2098 1150">▪ Agriculture machineries namely Rotavators, Zero-till-drill, Happy Seeder, Gyroraker, Chopper, Baler as 28851, 13502, 518, 74, 120, 107 were provided to the farmers. <li data-bbox="1039 1206 2098 1342">▪ Total prosecution and FIR launched in the year 2013 are 53 and during the year 2014, the number of such cases was 16.

	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> ▪ PPCB regularly monitor the Ambient Air Quality of the State at 24 locations in urban areas and 4 additional monitoring stations in rural areas.
3.	Regulation on use of loud speaker and sound system by the religious places and marriage palaces within permissible limits of Noise (Regulation & Control) Rules, 2000.	Continuous monitoring	<ul style="list-style-type: none"> ▪ Regular meetings are being conducted with the concerned departments. ▪ SDMs and Local Bodies have been advised to implement the guidelines regarding not to use the loud speakers during night time (10:00 pm to 6:00 am).

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015																																																																					
1.	Promotion of bio-methanization and compost facilities for the agricultural residue and awareness regarding ill effects of stubble burning	Continuous	<table border="1"> <thead> <tr> <th data-bbox="1144 507 1189 555">Sr. no</th> <th data-bbox="1189 507 1361 555">Particulars</th> <th colspan="2" data-bbox="1361 507 1608 555">Progress Report</th> <th data-bbox="1608 507 2063 555">Remarks</th> </tr> </thead> <tbody> <tr> <td data-bbox="1144 555 1189 635">1.</td> <td data-bbox="1189 555 1361 635">Biomethanization (Bio Gas Plants)</td> <td colspan="2" data-bbox="1361 555 1608 635">274</td> <td data-bbox="1608 555 2063 635">This progress report is given by Punjab Energy Development Authority (PEDA)</td> </tr> <tr> <td data-bbox="1144 635 1189 687">1.</td> <td data-bbox="1189 635 1361 687">Compost Facilities</td> <td colspan="2" data-bbox="1361 635 1608 687"></td> <td data-bbox="1608 635 2063 687" rowspan="3">Department of Agriculture imparts Technical Knowledge to the farmers regarding procedure and benefits of preparation of good quality compost. It helps in reducing dependence on chemical fertilizers</td> </tr> <tr> <td></td> <td data-bbox="1189 687 1361 740">Old Pits Renovated</td> <td colspan="2" data-bbox="1361 687 1608 740">1433</td> </tr> <tr> <td></td> <td data-bbox="1189 740 1361 793">New Pits Dugged</td> <td colspan="2" data-bbox="1361 740 1608 793">1325</td> </tr> <tr> <td data-bbox="1144 793 1189 815">1.</td> <td data-bbox="1189 793 1361 815">Awareness</td> <td colspan="2" data-bbox="1361 793 1608 815"></td> <td data-bbox="1608 793 2063 815" rowspan="5">Technical knowhow regarding ill effects of stubble burning and easily adaptable techniques of straw management in situ. Judicious use of chemicals fertilizers, water saving techniques is impart to the farmers through farmer training camps.</td> </tr> <tr> <td></td> <td data-bbox="1189 815 1361 868">Farmer Training Camp</td> <td colspan="2" data-bbox="1361 815 1608 868"></td> </tr> <tr> <td></td> <td data-bbox="1189 868 1361 890">District Level</td> <td colspan="2" data-bbox="1361 868 1608 890">2</td> </tr> <tr> <td></td> <td data-bbox="1189 890 1361 912">Block Level</td> <td colspan="2" data-bbox="1361 890 1608 912">21</td> </tr> <tr> <td></td> <td data-bbox="1189 912 1361 935">Village Level</td> <td colspan="2" data-bbox="1361 912 1608 935">343</td> </tr> <tr> <td></td> <td data-bbox="1189 935 1361 1070" rowspan="3">Adoption of water saving technologies</td> <td colspan="2" data-bbox="1361 935 1608 991">Area sown after laser land leveling (Ha)</td> <td data-bbox="1608 935 2063 1070" rowspan="3"></td> </tr> <tr> <td></td> <td data-bbox="1361 991 1496 1046">Year 2013</td> <td data-bbox="1496 991 1608 1046">Year 2014</td> </tr> <tr> <td></td> <td data-bbox="1361 1046 1496 1070">33895</td> <td data-bbox="1496 1046 1608 1070">120600</td> </tr> <tr> <td></td> <td data-bbox="1189 1070 1361 1230" rowspan="3">Area sown by adopting resource conservations technologies (Ha)</td> <td colspan="2" data-bbox="1361 1070 1608 1126">Area sown by adopting resource conservations technologies (Ha)</td> <td data-bbox="1608 1070 2063 1230" rowspan="3"></td> </tr> <tr> <td></td> <td data-bbox="1361 1126 1496 1182">Year 2013</td> <td data-bbox="1496 1126 1608 1182">Year 2014</td> </tr> <tr> <td></td> <td data-bbox="1361 1182 1496 1230">72470</td> <td data-bbox="1496 1182 1608 1230">90686</td> </tr> </tbody> </table>				Sr. no	Particulars	Progress Report		Remarks	1.	Biomethanization (Bio Gas Plants)	274		This progress report is given by Punjab Energy Development Authority (PEDA)	1.	Compost Facilities			Department of Agriculture imparts Technical Knowledge to the farmers regarding procedure and benefits of preparation of good quality compost. It helps in reducing dependence on chemical fertilizers		Old Pits Renovated	1433			New Pits Dugged	1325		1.	Awareness			Technical knowhow regarding ill effects of stubble burning and easily adaptable techniques of straw management in situ. Judicious use of chemicals fertilizers, water saving techniques is impart to the farmers through farmer training camps.		Farmer Training Camp				District Level	2			Block Level	21			Village Level	343			Adoption of water saving technologies	Area sown after laser land leveling (Ha)				Year 2013	Year 2014		33895	120600		Area sown by adopting resource conservations technologies (Ha)	Area sown by adopting resource conservations technologies (Ha)				Year 2013	Year 2014		72470	90686
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Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015			
1.	Promotion of bio-methanization and compost facilities for the agricultural residue and awareness regarding ill effects of stubble burning	Continuous				
			District Level Training Camps	44	44	44
			Block Level Training Camps	316	316	316
			Village Level Training Camps	4759	4759	4759

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
1.	Evolving of cleaner technologies and installation of pilot plants for improved effluent/ emissions treatment technologies.	Continuous	<ul style="list-style-type: none"> ▪ Technology developed to control air pollution for rice shellers having mechanical driers. The technology was demonstrated in one of the units in Amritsar and has the potential for its replication in rice shellers at Ludhiana. ▪ Technical services provided to 5 cupola furnaces in Ludhiana for providing air pollution control measures during FY 2015-16

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
			<ul style="list-style-type: none"> <li data-bbox="1025 544 2098 943">▪ Council is working on the project "Techno Economic feasibility study for silica recovery from rice husk ash sponsored by Punjab Pollution Control Board in May 2015. The proposal aims to explore the feasibility of silica recovery from rice husk ash. PSCST has identified four technology providers and meeting has been organized by all stake holders and further work is under progress. <li data-bbox="1025 1002 2098 1305">▪ Council has submitted the proposal for energy efficiency and air pollution control in boilers (Dyeing units) to Punjab Pollution Control Board vide letter no 785 dated 13.02.2015 to address the energy conservation in boilers to save the resources (fuel) and to reduce the pollution load.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
1.	To stop the over exploitation of ground water.	To make the masses aware regarding exploitation of ground water by using print as well as electronic media by 30/9/2010.	<ul style="list-style-type: none"> • CGWA vide Notification dated 11.12.1998 has declared whole of Ludhiana City in Ludhiana district as “Notified Area” for regulation of ground water development & management and imposes prohibition and restriction on the construction, installation of any structure for extraction of ground water resources to avoid its further depletion and deterioration in its quality. • Deputy Commissioner, Ludhiana has been authorized to take action as deem fit for prohibition and restriction on the construction, installation on any ground water structure in the above said area.

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015
1.	Organization of Health Camps	First phase will be started in August 2010. Thereafter in January 2011 followed by every six months.	<ul style="list-style-type: none"> ▪ From March 2014 onward special camps have been arranged in the areas adjoining to Buddha Nala. ▪ Every month 10 Medical camps are arranged. ▪ Patients with Gastrointestinal diseases, skin diseases have been found

Sr. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 30/09/2015							
			Diarrhoeal Diseases	440	546	540	439	541	535	More in summer and on increase
			Eye Diseases	160	200	210	161	170	142	More in summer and on increase
			Ear Diseases	215	280	269	159	187	137	On increase
			Hypertension	500	540	536	459	510	433	On increase
			Respiratory Diseases	519	610	604	521	579	547	More in winter but on increase
			Asthma	179	210	199	181	213	221	More in change of weather and on increase
			Skin Diseases	560	628	589	553	568	489	slight variation
			Pulmonary Diseases	115	112	150	161	169	201	More are reported in summer but on decrease