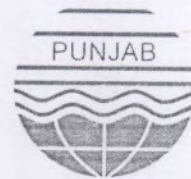


Welcome

To

Mandi Gobindgarh

*Submitted
By PPCB
During field visit
to Mandi Gobindgarh
By Joint Sec. Level
Committee Constituted
by Moef.*



PUNJAB POLLUTION CONTROL BOARD

Progress Report
on
Action Plan for Abatement
of Pollution in
Mandi Gobindgarh

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 Deputy Commissioner, Fatehgarh Sahib was held after 31/12/2014 i.e. on 12/3/2015, 29/5/2015 and 21/8/2015.
- ❑ 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.

DEPTT. OF INDUSTRIES & COMMERCE / PSIEC / PSIDC

S. N o.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1.	Supply of CNG to rolling mills and forging units through the gas pipeline being laid by GAIL (Gas Authority of India Ltd.)	Completion of work of laying the gas pipeline by June, 2011 and supply of gas to the industries immediately thereafter.	<ul style="list-style-type: none"> ▪ Gas pipe lines laid upto left side of NH-1 from Amloh. ▪ Stress was laid on the forging units located on left side. ▪ A model unit be prepared and effectiveness of gas may be tested from that unit. ▪ GAIL informed that CNG will be supplied to M/s Parbhat Heavy Forging, G.T. Road, Khanna Side, Mandi Gobindgarh in the month of February, 2015. ▪ Unit will be model unit for the other forging units for demonstration. 	<ul style="list-style-type: none"> ▪ Gas pipe lines laid upto left side of NH-1 from Amloh. ▪ Permission had already been obtained by the GAIL Authorities for crossing the gas pipe from canal. ▪ Only distance of 30 m of laying of pipe line from M/s Jatin Steel to M/s Parbhat Heavy Forge is pending and for which contractor had already been hired by the GAIL Authorities. ▪ On the persuasion of PPCB, forging units had agreed to use gas as fuel. ▪ M/s Parbhat Heavy Forge has been selected as model unit to use the gas as demonstration plant to check its effectiveness. M/s Parbhat Heavy Forge has already installed State of Art machinery for using gas as fuel. ▪ Unit will be model unit for the other forging units for demonstration.

The comparison of production cost per tonne of product produced with respect to fuel used is as under:

Coal requirement per tonne of rolling product-	65 Kg	
Cost of 1 Kg coal	-	Rs. 11/-
Cost incurred on per tonne production	-	65x 11 = Rs. 715/-
Approximate scale loss (1%) per tonne	-	Rs. 300/-
Total cost incurred	-	<u>Rs. 1015/-</u>

Gas requirement per tonne of rolling product	-	40 cubic meter
Cost of 1 cubic meter gas	-	Rs. 45/-
Cost incurred on per tonne production	-	40 x 45 = 1800/-
Total cost incurred	-	<u>Rs. 1800/-</u>

After comparing between coal & gas the difference comes out to be Rs. 785/- per tonne of product rolled. This is the reason why the Steel rolling mills are not willing to take gas connection. Moreover, GAIL is purchasing gas from outside and its price varies globally.

DEPTT. OF INDUSTRIES & COMMERCE / PSIEC / PSIDC

S. N.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
2.	Provision of environment infrastructure in Focal Point, Mandi Gobindgarh including wastewater treatment facilities, improved water supply, road infrastructure, parking facilities and green cover within the industrial areas.	<ul style="list-style-type: none"> ➤ Repair of sewerage system by 31/3/2011 ➤ Provisions of treatment & disposal facilities by 31/12/2011 	<ul style="list-style-type: none"> ▪ The final DPR of ETP has been vetted by the Technical Advisor of Hon'ble Chief Minister, Punjab. ▪ PSIEC has been directed to install separate ETP. ▪ Tendering work of ETP will be executed within two months. 	<ul style="list-style-type: none"> ▪ The final DPR of ETP has been vetted by the Technical Advisor of Hon'ble Chief Minister, Punjab. ▪ PSIEC has been directed to install separate ETP for the Focal Point area. ▪ PSIEC authorities told that the tendering work will be done within one month after passing in the Steering Committee.

DEPTT. OF INDUSTRIES & COMMERCE / PSIEC / PSIDC

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
3.	Shifting of industries, which are located in the non-designated areas, to the designated areas.	Industries located in non-designated area will be shifted as per the provisions made in the Master Plan notified by the Government for Mandi Gobindgarh.	<ul style="list-style-type: none"> ▪ 18 no. industries, located in the non-designated area required permission from CA, GMADA for continuation as per Master Plan. ▪ 12 industries in operation and 6 are lying closed. ▪ A meeting was held with the industries on 13/11/2014 and were guided to take permission from CA, GMADA. 	<ul style="list-style-type: none"> ▪ 18 no. industries, located in the non-designated area required permission from CA, GMADA for continuation as per Master Plan. ▪ 12 industries in operation and 6 are lying closed. ▪ DTP informed that 10 no. industries out of total 12 no. industries had already applied for permission from CA, GMADA for continuation as per Master Plan bye-laws. ▪ Remaining two no. industries M/s Rattan Mould Industries and M/s Modi Wire Product have been closed and PPCB had already revoked/ cancelled the consents granted under the Water Act, 1974 and the Air Act, 1981. ▪ A meeting was taken by DTP with the industries on 3/9/2015 and were guided to take permission from CA, GMADA.

DEPTT. OF INDUSTRIES & COMMERCE / PSIEC / PSIDC

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
4.	Awareness campaign to increase green cover in industrial areas.	Continuous Process	For the year 2014: <ul style="list-style-type: none"> ▪ 7400 plants were planted (3900 by GMDIC, 3500 by PSIEC) ▪ For the year 2014-15, 2500 plants will be planted by MC, Mandi Gobindgarh. 	<ul style="list-style-type: none"> ▪ For the year 2014-15, 2500 plants have been planted by MC, Mandi Gobindgarh.

DEPTT OF LOCAL BODIES / M.C

Sr No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1.	Installation of STP and disposal of treated wastewater onto land for irrigation / plantation.	31/12/11	<p>Funding Agency- MC, Mandi Gobindgarh Nodal Agency- PWSSB</p> <ul style="list-style-type: none"> ▪ Land has been awarded for STP on 26/11/2014. ▪ Possession work of land had carried out on 11/12/2014. ▪ 1.2 Km area, out of 5.8 Km sewerage pipe line has been laid and the further work under progress. 	<p>Funding Agency- MC, Mandi Gobindgarh Nodal Agency- PWSSB</p> <ul style="list-style-type: none"> ▪ Land has been awarded for STP on 26/11/2014. ▪ Possession work of land had carried out on 11/12/2014. ▪ 40% work of STP has been completed and delay in work is due to shortage of funds. ▪ A meeting was taken by Hon'ble Secretary, Local Body and Rs. 3.42 Crores has now been released by the Govt. to the PWSSB. ▪ The project will be completed by March, 2016.

DEPTT OF LOCAL BODIES / M.C

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
2.	Laying of sewer lines in remaining areas and connecting with the sewage treatment facilities.	30/9/2013	Work completed.	Work completed.
3.	Development of engineered municipal solid waste dump site and compliance of provisions of the Municipal Solid Waste Rules, 2000.	<ul style="list-style-type: none"> ▪ Identification of land fill site by 30/9/2010. ▪ Development of land fill site by 31/12/2011. 	<ul style="list-style-type: none"> ▪ Possession of the land for permanent landfill site carried out very soon. Case pending in the Hon'ble High Court. ▪ Fencing of temporary landfill site had done. ▪ MC, Mandi Gobindgarh directed to maintain landfill site as per ten points Action Plan submitted by Local Govt. 	<ul style="list-style-type: none"> ▪ Case regarding the MSW Disposal Site selected by the MC is pending in the Hon'ble High Court. Possession of the land for permanent landfill site carried out very soon. ▪ Fencing of temporary landfill site has been done. ▪ MC, Mandi Gobindgarh directed to maintain landfill site as per Action Plan submitted by Local Govt. in the Hon'ble High Court and Hon'ble NGT.

DEPTT OF LOCAL BODIES / M.C

S. No	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
4.	Improvement of Road infrastructure for better and smooth traffic movement	Continuous	Yellow lines provided on the roads: <ul style="list-style-type: none"> • Main Bazaar • Post Office Road • Total expenditure incurred is Rs. 5 Lacs. 	Yellow lines provided on the roads: <ul style="list-style-type: none"> • Main Bazaar • Post Office Road • Total expenditure incurred is Rs. 5 Lacs. • MC, Mandi Gobindgarh has allotted the work for the area of RG Mill Road and Dharam Mill Road. • The work of RG Mill Road was started, but it was cancelled due to CWP no. 99079 of 2012 in the Hon'ble High Court. Now, again proposal has been prepared and tendering is being done after passing of resolution in the MC meeting. • Potholes on Dharam Mill Road have been filled and bitumen layer could not be provided due to non-operation of hot mix plant due to rainy season.

DEPTT OF LOCAL BODIES / M.C

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
4.	Improvement of Road infrastructure for better and smooth traffic movement	Continuous	<p>Yellow lines provided on the roads:</p> <ul style="list-style-type: none"> • Main Bazaar • Post Office Road • Total expenditure incurred is Rs. 5 Lacs. 	<p>Yellow lines provided on the roads:</p> <ul style="list-style-type: none"> • Main Bazaar • Post Office Road • Total expenditure incurred is Rs. 5 Lacs. • MC, Mandi Gobindgarh has allotted the work for the area of RG Mill Road and Dharam Mill Road. • The work of RG Mill Road was started, but it was cancelled due to CWP no. 99079 of 2012 in the Hon'ble High Court. Now, again proposal has been prepared and tendering is being done after passing of resolution in the MC meeting. • Potholes on Dharam Mill Road have been filled and bitumen layer could not be provided due to non-operation of hot mix plant due to rainy season.

DEPTT OF LOCAL BODIES / M.C

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
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. 	<ul style="list-style-type: none"> ▪ The work of N.H. at Mandi Gobindgarh shall be completed by 31/3/2015 by NHAI. ▪ Traffic lights on NH-1 will be installed thereafter. 	<ul style="list-style-type: none"> ▪ The work of N.H. at Mandi Gobindgarh has been completed. ▪ The installation of traffic lights on NH-1 is under process.

DEPTT OF LOCAL BODIES / M.C

S. No	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
6.	Steps for compulsory installation of rainwater harvesting structure by different establishments within the city.	Continuous Process	<ul style="list-style-type: none"> ▪ Building plans of residential houses having area more than 200 Sq. yards are being approved with the condition of providing rainwater harvesting system. ▪ To check the compliance, 10 houses per week will be checked randomly. 	<ul style="list-style-type: none"> ▪ Building plans of residential houses having area more than 200 Sq. yards are being approved with the condition of providing rainwater harvesting system. ▪ To check the compliance, 10 houses per week is being monitored randomly. ▪ Agriculture department has been directed to make awareness among the farmers regarding the usage of their unused borewells and rainwater/ surface water run off recharge, which is not right as lot of pesticides/ insecticides/ weedicides also been discharged in the under ground aquifer.

DEPTT OF LOCAL BODIES / M.C

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
7.	Increasing green cover in city and provision of green belt / buffer zones separating industrial areas from residential areas.	<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 style="text-align: center;">For the year 2014</p> <ul style="list-style-type: none"> ▪ 3372 plants planted by MC, Mandi Gobindgarh. ▪ For the year 2014-15, 2500 plants will be planted. 	<p>For the year 2014:</p> <ul style="list-style-type: none"> ▪ 7400 plants were planted (3900 by GMDIC, 3500 by PSIEC) ▪ For the year 2014-15, 2500 plants have been planted by MC, Mandi Gobindgarh.

DEPTT OF LOCAL BODIES / M.C

S. No	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
8.	Mandatory requirement to provide canopies with the existing D.G sets alongwith stacks as per norms fixed by the PPPCB and not to allow any shop, office/commercial establishment to install D.G. sets without canopy and to take policy decision regarding regulation of D.G. sets in residential houses.	Existing D.G. sets by 31/12/2010.	Tendering work for the canopies on the DG sets installed on the 14 no. tubewells of MC have been started.	<ul style="list-style-type: none"> ▪ Earlier, the tendering work for the canopies on the DG sets installed on the 14 no. tubewells of MC were called. Thereafter these DG sets were declared condemn. ▪ Door to door survey has been carried out by MC, Mandi Gobindgarh to check the status of the DG sets as to whether equipped with canopy or without canopy. 150 DG sets were checked by MC authorities.

DEPTT. OF TRANSPORT

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1.	Plan for effective traffic management including provision of traffic lights, notification of one way traffic, parking of vehicles at the designated place, challaning of polluting vehicles etc.	Traffic management plan to be prepared by 31/12/2010 and to be implemented thereafter on regular basis.	<ul style="list-style-type: none"> ➤ Installation of traffic lights will be done after the completion of six laning work, passing through the town. ➤ E.O., Mandi Gobindgarh has been directed to earmark suitable places for parking of different type of vehicles and put up boards there also. 	<ul style="list-style-type: none"> ➤ The installation of traffic lights on NH-1 is under process. ➤ DTO informed that different unions were invited and made awareness regarding the proper parking of heavy vehicles. He informed that vehicles are being challaned regularly for wrong parking, but still there is violation and traffic police have been directed on 21/8/2015 to take action against the violators.

DEPTT. OF TRANSPORT

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
2.	Phasing out of 15 years old commercial transport vehicles.	Continuous Process	Surveillance is done by Transport Deptt.	Surveillance is being carried out by Transport Deptt. regularly. 74 buses were challaned from 1/1/2015 to 21/8/2015
3.	Increased monitoring of vehicles running without P.U.C certificates.	Continuous Process	260 challans of vehicles has been done in the year 2014.	130 vehicles have been challaned from 1/1/2015 to 21/8/2015.
4.	Banning of pressure horns.	Continuous Process	184 challans of vehicles has been done in the year 2014.	147 vehicles have been challaned from 1/1/2015 to 21/8/2015
5.	Checking the use of adulterated fuel and impounding of such vehicles.	Continuous Process	Checking of vehicles is done regularly and no vehicle was found using adulterated fuel.	Checking of vehicles is being done regularly and no vehicle was found using adulterated fuel.

DEPTT. OF FORESTS

	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1	Implementation of Action Plan for greening Mandi Gobindgarh	31/3/2011	38500 plants planted in the different locations of Mandi Gobindgarh area (Senior Secondary School, G.T. Road, RIMT College Road, B/s I-R Distributory, Amloh Gobindgarh Road, B/s G.T. Road, Focal Point Road).	<ul style="list-style-type: none"> ➤ Forest Department informed that there are no targets available with the department from 2013 onwards. ➤ DC, Fatehgarh Sahib vide D.O no. PPCB/2525 dated 26/8/2015 requested to the Principal Chief Conservator of Forests to fix the targets for making plantation in Mandi Gobindgarh area.

DEPTT. OF PWD (B & R)

S. N	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1	Improving road conditions for smooth movement of traffic and provision of flyovers / underpasses etc.	<ul style="list-style-type: none"> ▪ Identification of traffic bottlenecks and preparation of scheme by 31/12/2010. ▪ Implementation of scheme regarding flyovers / underpasses by 31/12/2012. 	<ul style="list-style-type: none"> ▪ After the completion of six laning project of G.T Road (NH-1). ▪ NH-1 work will be completed by 31/03/2015. ▪ Work of smooth movement of traffic shall be started in April, 2015 	<ul style="list-style-type: none"> ▪ The work of NH-1 had completed recently.
2	Increasing green cover on roadside under their jurisdiction.	<ul style="list-style-type: none"> ▪ Identification of vacant land for plantation by 30/9/2010. ▪ Preparation of plan for plantation by 30/9/2010. ▪ Plantation in the entire vacant land by 31/3/2011. 	<ul style="list-style-type: none"> ▪ After the completion of six laning project of NH-1. ▪ PWD informed that only 5 feet wide area along the bridge is there. ▪ Plantation will be carried out after completion of bridge. 	<ul style="list-style-type: none"> ▪ The work of NH-1 had been recently completed and finishing work is under progress. Plantation work shall be started within one month.

**DISTRICT ADMINISTRATION / DEPUTY COMMISSIONER,
FATEHGARH SAHIB**

S. N	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1	To impose complete ban on the stubble burning in the agricultural fields around Mandi Gobindgarh.	30/9/2010	Orders u/s 144 of CrPC have been issued regarding ban on stubble burning.	Orders u/s 144 of CrPC have been issued vide no. 8594-8640 dated 21/9/2015 by District Magistrate, Fatehgarh Sahib regarding ban on stubble burning.
2	Regulate the use of loud speaker and sound system by the religious places and marriage palaces.	Immediate	District Administration has passed an order not to use loud speaker and sound system at religious places and marriage palaces during night period from 10:00 pm to 6:00 am.	District Magistrate, Fatehgarh Sahib has already passed an order not to use loud speaker and sound system at religious places and marriage palaces from 10:00 pm to 6:00 am.

PUNJAB STATE COUNCIL FOR SCIENCE & TECHNOLOGY

S. N	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1	Evolving of cleaner technologies and installation of pilot plants for improved effluent / emissions treatment technologies.	Continuous Processes	<ul style="list-style-type: none"> ▪ PSCST reported as: ▪ 172 rolling mills has been given training on better feeding and firing practices of pulverized coal in the reverberatory furnace. ▪ 5 no. of induction furnaces have also been given demonstration for improvement/ upgradation of their APCD. ▪ There is also one project, being funded by UNDP, which will be executed by June, 2015 and mainly concentrated on energy conservation of industries, located in the Mandi Gobindgarh area. 	<ul style="list-style-type: none"> ▪ PSCST reported as: ▪ 172 rolling mills has been given training on better feeding and firing practices of pulverized coal in the reverberatory furnace. ▪ 5 no. of induction furnaces have also been given demonstration for improvement/ upgradation of their APCD. ▪ There is also one project, being funded by UNDP in which PSCST is providing technical knowhow to 65 of industries falling in Mandi Gobindgarh and Khanna Cluster. The work of 58 industries have been completed, the work of remaining units is under progress.

DEPTT. OF AGRICULTURE

S. No	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1.	To propagate sustainable technology for bio-methanization of agricultural waste including compost facilities.	To launch awareness campaign in the rural areas of Mandi Gobindgarh through print and electronic media.	<p>Chief Agriculture Officer has informed as under:</p> <ul style="list-style-type: none"> ▪ Farmer training camps and exhibitions are conducted at field level to educate farmers about ill effects of pollution (paddy straw burning). ▪ One distt. Level farmers training camp is organized in which 1055 farmers participated. Ten block level camps organized in which 1445 farmers participated. ▪ New farm machinery has been introduced for sowing wheat after paddy (Happy seeder, Zero till seed drill, Rotavator) which helps to incorporate the crop residue in soil to avoid burning of paddy straw. ▪ In Village, Block & Distt. level Training camps has been organized by the Department regarding Judicious use of Urea & DAP to avoid pollution of ground water. 	<p>Chief Agriculture Officer has informed as under:</p> <ul style="list-style-type: none"> ▪ Farmer training camps and exhibitions are conducted at field level to educate farmers about ill effects of pollution (paddy straw burning). ▪ One distt. Level farmers training camp is organized in which 1055 farmers participated. Ten block level camps organized in which 1445 farmers participated. ▪ New farm machinery has been introduced for sowing wheat after paddy (Happy seeder, Zero till seed drill, Rotavator) which helps to incorporate the crop residue in soil to avoid burning of paddy straw. ▪ In Village, Block & Distt. level Training camps has been organized by the Department regarding Judicious use of Urea & DAP to avoid pollution of ground water.

DEPTT. OF AGRICULTURE

S. No	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
			<ul style="list-style-type: none"> ▪ Information regarding Safe & Judicious use of Pesticide has been disseminated by staff to motivate the farmers to avoid air & Ground water pollution. ▪ Farmers are advised to grow more trees & motivated for AGROFORESTRY. ▪ Department is providing subsidy on machines (Zero till drill Rs 15,000/- Rotavator Rs 35,000/-), straw reaper @ 95,000/- , chopper-cum- shredder @ 95,000/- & bailers @ 435000/-)which helps in controlling the stubble burning to avoid pollution. ▪ Various method of composting the crop residue by making and renovating Farm Yard Manure (FYM)pits at field. 	<ul style="list-style-type: none"> ▪ Information regarding Safe & Judicious use of Pesticide has been disseminated by staff to motivate the farmers to avoid air & Ground water pollution. ▪ Farmers are advised to grow more trees & motivated for AGROFORESTRY. ▪ Department is providing subsidy on machines (Zero till drill Rs 15,000/- Rotavator Rs 35,000/-), straw reaper @ 95,000/-, chopper-cum- shredder @ 95,000/- & bailers @ 435000/-)which helps in controlling the stubble burning to avoid pollution. ▪ Various method of composting the crop residue by making and renovating Farm Yard Manure (FYM)pits at field.

DEPTT. OF HEALTH & FAMILY WELFARE

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1.	Organizational Health Camps	First phase will be started in August, 2010. Thereafter in January, 2011 followed by every six months.	1208 patients checked in the medical camps organised by Civil Surgeon, Fatehgarh Sahib in the year 2014.	Regular medical camps are organized by the Civil Surgeon, Fatehgarh Sahib. 459 patients checked in the medical camps organised by Civil Surgeon, Fatehgarh Sahib from 1/1/2015 to 21/8/2015.

PUNJAB POLLUTION CONTROL BOARD

S. No	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
1.	Upgradation of fugitive emission collection system of induction furnaces.	<ol style="list-style-type: none"> 1. Preparation of design of modified air pollution control system by IIT, Roorkee by 15/11/2010. 2. Installation, commissioning & monitoring of pilot plant by 28/2/2011. 3. Replication by other similar units by 30/9/2011. 	<p>With the persuasion of the Punjab Pollution Control Board</p> <ul style="list-style-type: none"> ▪ 172 rolling mills have been given training on better feeding and firing practices of pulverized coal in the reverberatory furnace by PSCST. ▪ Out of 232 rolling mills in operation, 116 rolling mill have installed energy saving devices till date. ▪ Remaining industries are being pursued to install the same. ▪ About 20 induction furnaces have replaced their APCD on design of PSCST. 	<p>With the persuasion of the PPCB</p> <ul style="list-style-type: none"> ▪ 172 rolling mills have been given training on better feeding and firing practices of pulverized coal in the reverberatory furnace by PSCST. ▪ Out of 245 rolling mills in operation, 90% rolling mill have installed energy saving devices till date. Remaining industries are being pursued to install the same. ▪ About 25 induction furnaces have replaced their APCD on design of PSCST.

PUNJAB POLLUTION CONTROL BOARD

S. N.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
2	Installation of online monitoring system.	1. Pilot project in NFL, Naya Nangal by 31/3/2011. 2. To be emulated by the large scale polluting industries in Mandi Gobindgarh within six months after successful commissioning of the pilot project.	<ul style="list-style-type: none"> ▪ M/s Modern Steels Ltd., Mandi Gobindgarh has installed online monitoring system 	<ul style="list-style-type: none"> ▪ M/s Modern Steels Ltd., Mandi Gobindgarh has installed online monitoring system ▪ Online monitoring system has also been installed M/s Bhawani Industries and M/s Nahar Enterprises (Sugar Mill), Amloh.

PUNJAB POLLUTION CONTROL BOARD

S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
3.	Switching over to tunnel type kiln by refractory units.	30/6/2011	Complied.	Complied.
4.	Vigorous monitoring of air and water polluting industries.	Continuous process	<ul style="list-style-type: none"> ➤ Industries monitored in year 2014 : 1040 ➤ Notice u/s 31-A of the Air Act, 1981 : 49 ➤ Notice u/s 33-A of Water Act, 1974 : 41 ➤ Closure u/s 31-A of the Air Act, 1981 : 35 ➤ Closure u/s 33-A of Water Act, 1974 : 13 	<p>From 1/1/2015 to 30/9/2015</p> <ul style="list-style-type: none"> ➤ Industries monitored: ➤ Notice u/s 31-A of the Air Act, 1981: 12 ➤ Notice u/s 33-A of Water Act, 1974 : 16 ➤ Closure u/s 31-A of the Air Act, 1981: 5 ➤ Closure u/s 33-A of Water Act, 1974: 4
5	i) Shifting of hazardous waste to the Common TSDF by the industries.	31/12/10	<ul style="list-style-type: none"> ➤ Continues process. Complied . 	<ul style="list-style-type: none"> ➤ Continues process. Complied.

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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
5	ii) To carry out feasibility studies for GPS based tracking system for hazardous waste going to TSDF.	31.3.2011	GPRS System has been installed on the Vehicles carrying hazardous waste to TSDF.	Complied.
6	Preparation of inventory of E-waste	31.3.2011	<ul style="list-style-type: none"> ▪ PPCB has authorized the vendors. ▪ Regular monitoring carried out in professional educational institutes. ▪ Notices have already been issued in this regard. ▪ 4 Educational Institutes and 5 large scale industries made agreement with M/s Ramky Enviro Engineers Ltd., Vill. Nimbua. 	<ul style="list-style-type: none"> ▪ PPCB has authorized the vendors. ▪ Regular monitoring carried out in professional educational institutes. ▪ Notices have already been issued in this regard. ▪ 4 Educational Institutes and 5 large scale industries made agreement with M/s Ramky Enviro Engineers Ltd., Vill. Nimbua.

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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
7	Proper management of solid waste generated from cooling water recirculation tanks	31.3.11	Continuous Process. Complied.	Continuous Process. Complied.

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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
8	i) Upgradation of ground water monitoring network.	31/12/10	2 stations have been set up for collection of ground water sample No Organic contamination has been observed	2 stations have been set up for collection of ground water samples collected on 16/4/2015 No Organic contamination has been observed

Ground Water Quality Monitoring as on 31/12/2014

Points of Collection	pH	TDS mg/l	TH mg/l	Fe mg/l	Zn mg/l	Na mg/l	TSS mg/l	BOD mg/l	COD mg/l
Near ESI Hospital	7.5	660	164	0.16	ND	38	ND	ND	ND
M/s Agni Refractories Ajnali	7.1	1554	380	0.01	2.92	65	ND	ND	ND

Ground Water Quality Monitoring as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015

Points of Collection	pH	TDS mg/l	TH mg/l	F mg/l	Zn mg/l	%Na	TFS mg/l	BOD mg/l	COD mg/l
Near ESI Hospital	7.2	615	152	0.1	1.44	41.9	547	ND	ND
M/s Agni Refractories Ajnali	7.0	729	180	0.7	3.13	49.2	663	ND	ND

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Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
ii) Upgradation of ambient air quality monitoring network.	ii) By 30.9.2011 subject to availability of funds.	ii) 3 ambient air quality monitoring stations are in operation in Mandi Gobindgarh and data available on PPCB website	ii) 3 ambient air quality monitoring stations are in operation in Mandi Gobindgarh and data available on PPCB website

Data Indicating Decreasing Trend of RSPM

Annual average Conc. of RSPM in $\mu\text{g}/\text{m}^3$			
Year	M/s Raj Steel	M/s United Steels	M/s Modern Automotive
2011	200	203	186
2012	232	230	134
2013	149	189	154

Annual average Conc. of RSPM in $\mu\text{g}/\text{m}^3$			
Year	M/s Raj Steel (Now in Dhiman Steel)	M/s United Steels	M/s Modern Automotive
2014	124	144	136
August, 2015	97	117	127
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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
iii)	Regular monitoring of surface water bodies	iii) Continuous process.	<p>iii) One surface water body i.e. Sirhind Choe, which carries domestic effluent of MC, Mandi Gobindgarh, Sirhind & Bassi Pathana. But the sewage does not reach to river Ghaggar</p> <p>iv) MCs have been directed to install the STPs by 30/06/2016.</p>	<p>iii) One surface water body i.e. Sirhind Choe, which carries domestic effluent of MC, Mandi Gobindgarh, Sirhind & Bassi Pathana. But the sewage does not reach to river Ghaggar. However, wastewater samples was collected from the Sirhind Choe on 10/6/2015. Results tabulated below:</p>

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Wastewater Samples was collected by Board from the Sirhind Choe on 10/6/2015.

Points of Collection	pH	TDS mg/ l	TSS mg /l	BOD mg/l	COD mg/l	Cl mg/l	T.Coli MPN / 100 ml	Zn mg/l	Fe mg/l	SAR	RSC	EC	Pb mg/l
Sirhind near under construction STP of capacity 25 MLD At Vill. Kumbran	7.2	770	21	18	70	81	4600	0.30	0.48	2.2	0.55	1180	ND

iv) MCs/ PWSSB have told that STP work will be completed by March, 2016.

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S. No.	Activities for abatement of environmental pollution	Target date	Progress Report as on 31/12/2014	Progress Report as on 30/9/2015 w.r.t bimonthly meeting held on 21/8/2015
	iv) Source apportionment studies	iv) Within two years after the framing of guidelines by the CPCB in this regard.	iv) Source apportionment studies will be carried out after receiving necessary guidelines from CPCB.	iv) Source apportionment studies will be carried out after receiving necessary guidelines from CPCB.

