14/12/10

PROPOSED ACTION PLAN FOR CONTROL OF ENVIRONMENTAL POLLUTION OF

MIRZAPUR (U.P.)

U.P. POLLUTION CONTROL BOARD

FRAME WORK OF MODEL ACTION PLAN FOR CRITICALLY POLLUTED INDUSTRIAL ESTATES/AREAS/CLUSTERS-DISTT. MIRZAPUR

1. **INTRODUCTION:**

1.1 Area details including brief history (background information) :

Mirzapur pronunciation (help·info)Urdu: مرزاپور) is a city in the heart of North India, nearly 650 km between Delhi and Kolkata and also equidistant from Allahabad and Varanasi. Located in the state of Uttar Pradesh, Mirzapur has a population of a little over 205,264 (2001 census) and is renowned for its famous carpet and brassware industry. It is a city with several spots around it including many hills such as Rajdari, Devdari, Lakhaniyadari, and Windom fall range and Sirshi. It is the headquarter of Mirzapur District.

Reports suggest that Mirzapur was a commercial city, being situated on the banks of the river Ganges. These reports are backed by the Naar Ghat, a carved stone with rates of toll taxes of Ashokan times inscribed on it. Most of the city was established by English officers, and so places are named after Englishmen like Wellesleyganj (Lord Wellesley), Mukeri Bazar (Lord Mercury), Dankeen Ganj (Mr. Danseen), and a famous waterfall of the city, Windham Water Fall (Mr. Windham). The Municipal Corporation building was also built by the English Government.

On the outskirts of the area, there is a patch of forest that contains ancient wall paintings, called Lekhania Dari and there are small rapids at the place. This has made it a popular picnic spot among residents of nearby cities. The forest area is still inhabited by some tribes. Possibly, ten tribes are still present in the region.

The indigenous ruler Sheikh Mirza was captured by the British government, and so the city was documented by the British as Mirzapur due to the name of its ruler. Some information about an ancient city near the local Kachhawa Bazar has also been found, but is awaiting concrete proof. Near the Kachhawa Bazar an ancient temple of lord Shiva in Larawak village. It is locally believed that this temple was build in Treta Yug during Ramawataar. This temple is so attractive in architecture point of view and all the design of stone is just like the Khajuraho. Now this temple is protected and supervised by Archeological survey of India (ASI). This temple gives a lot of information about the ancient life cycle of the human. This temple is located in the heart of the Larawak village.

Contd...p/2.

According to local tradition Mirzapur was founded by Raja Nanner and was known as Girijapur, but after the British conquest it came to be known as Mirzapur. The earliest mention of the town is found in the writings of Tieffenthaler, who drew up his description of the country between 1760 and 1770. He mentioned it under the name of Mirzapur, especially as a great mart. In the records of Jonathan Duncan, who was a resident of Varanasi, frequent mention is made of the place as Mirzapur. Before 1 April 1989, Mirzapur was the largest district of India. Mirzapur is also a Naxalite hot spot.

The main business in Mirzapur is carpet manufacturing. Manufacturers range from very small (with less than $100,000 in assets) to medium sized (with around $10M in assets). Most of the carpets are sold internationally as India has a limited market for carpets. The second main business is of metal pots.

Vindhyachal

A few miles away from this city is a site of pilgrimage to Hindus known as Vindhyachal where according to the mythology a part of Sati (an avatar of Durga) fell. The river Ganges flows through this city. Other sites of pilgrimage include Kali Khoh (literally 'the cave of the Goddess Kali') where a statue of the Kali has a mouth formed in the shape of a cave, hence the name. Very close to the city is a waterfall.

The city itself has many Ghats (steps to a river). There are a few cinema-halls. At first look the city appears to be a confluence of town, village and city life. Bijli or electricity supply is now regular up to some extent.

Culture of the city

Contd...p/3.

A shopping street in Mirzapur

1) Dress includes dhoti, kurta and toga (gamachhaa) (the local style also called the GANWAAR style of dress) on shoulders of men; the other side of this cultural coin shows the scented regional perfumes and earrings on women along with sarees, kara (bracelets), bangles, bajuband (arm bands), kakani, in hands and hasali (thick silver neck rings) on the neck, bichhiya (toe rings) on the toes, kanachadi in the ears put on kardhani (a knitted silver belt) in the waist.

2) Festivals of the city: jeevitputrika (jutiya), Ganges Deshahara, lalahi chattha, shardiya and vasantik navratra, ojhala ka mela (a fair at the Ojhla Bridge), lohandi ka mela (fair), the famous Vindhya Mahotsava, horaha gaderi ka mela, litti bati ka mela, and maa bhandari ka mela (various fairs at different places on different occasions).

3) Kajari Mahotsava: It is among the famous festivals of Mirzapur. Respected all over India, kajali took birth here. King Kantit Naresh's daughter Kajali loved her husband very much and sang songs in the moment of separation from her husband, although she could not meet her husband throughout her life and died, yet she remains alive through these deep sad-love songs. Her voice and songs impress Mirzapur locals very much, so they remember her through this festival paying homage to her.

Contd...p/4.

4) Lohandi Mela: 2 km south of Mirzapur an old temple of Lord Hanuman is decorated with light (ghee ke deeye) on kartik purnima and every Saturday in the month of Saawan (Hindu month of rain in the middle of July–August), a big fair is arranged. The attraction is tattoo design.

5) Ojhala Mela: Ojhala is the current name of the Ujjvala River. A fair used to be arranged regularly here since 1920, which is a sign of bravery and the only place in India where betting is legal on the days of the fair. This has been discontinued since there isn't enough water at the bridge for the various water sports that used to take place.

6) Vindhyavasini Jayanti Samaaroh: Started in 1971, this musical program is arranged by the Government where renowned Indian vocal and folk artists give real presentations and worship the goddess Vindhyavasini.

7) Deep Mahotsava: Celebrated on the day of Diwali, all the Ganges ghats are decorated with lights (ghee ke deeye); locals have immense pleasure celebrating this on kartik amavasya.

8) Jhoolanotsava: In the month of Saawan celebrated by locals during rain, this Jhoolanotsava is celebrated with swings in the branches of trees for five days. Shree Dwarkadheesh Temple, Ganga Jamuna Saraswati Temple and Kunj Bhawan are decorated.

1.2 Location :

Mirzapur is located at 25°09'N 82°35'E25.15°N 82.58°E.[2] It has an average elevation of 80 metres (265 feet). The District of Mirzapur lies between the parallels of 23.52 & 25.32 North latitude and 82.7 and 83.33 East longitude. It forms a portion of the Varanasi Division. On the north and north-east it is bounded by the Varanasi district ; on the south bounded by district Sonbhadra. On the north west by the district of Allahabad. The shape to the north and west is somewhat irregular. In no direction, except for about 13 km. in the north east where he Ganges separates the Tehsil of Chunar from the district of Varanasi , has Mirzapur a natural frontier. According to Central Statistical organisation the district of Mirzapur had an area of 4521 km^2. At the census of 2001, the population of the district is 1657140 (males 1093849 and females 980860) of which 1788203 were living in rural and 286506 in the urban area of the district

Contd...p/5.

1.3 Digitized Map with Demarcation of Geographical boundaries and Impact Zones : The map is attached as **Annexure_- I**

1.4 CEPI Score (Air, Water, Land and Total) :

1. Water CEPI - 62.00
2. Air CEPI - 58.00
3. Land CEPI - 53.50
4. Total CEPI - 73.79

1.5 Total population and sensitive receptors (hospitals, educational institutions, courts etc residing in the area comprising of geopraphical area of the cluster and its impact zone (minimum 2 Km.) : As of 2001 India census.[4] Mirzapur had a population of 205,264. Males constitute 54% of the population and females 46%. Mirzapur has an average literacy rate of 62%. higher than the national average of 59.5%: male literacy is 69%, and female literacy is 54%. In Mirzapur. 14% of the population is under 6 years of age

1.6 Eco-geological features Impact Zones [the area comprising of geographical area of the cluster and its impact zone (minimum 2 Km)] :

1.6.1 Major Water Bodies (Rivers, Lakes, ponds, etc.) :

1. River Ganga
2. River Jargo
3. Dam Jargo
4. koilair Nala
5. Chakra Nala
6. Ghuggi Tal
7. Durga Nala
8. Machharmar Nala
9. Aharaura Dam
10. Sirsi Dam
11. Adwa Dam

1.6.2 Ecological parks, Sanctuaries, flora and fauna or any eco sensitive zones :

Centuries – No
Flora and Fauna – **Annexure-II**
Eco-sensitive zone- No

Contd...p/6.

1.6.3	Buildings or Monuments of Historical/archaeological/religious importance	:	1. Chunar Fort 2. Lekhanaya Dari Caves 3. Ganeshwar Nath Temple 4. Guru Teg Bahadur Saheb Gurudwara 5. Church 6. Dargah Shareef 7. Darga Cave Temple 8. Siddhnath Dari 9. Shakteshgarh Fort 10. Vindhyachal Mandir 11. Kalikhoh Gufa 12. Ashtabhuji Devi Mandir
1.7	Industry classification and distribution (no. of industries per 10 Sq. Km. area of fraction)	:	**Annexure-III**
1.7.1	Highly Polluting industries (17 categories)	:	**Annexure-III.**
1.7.2	Red category industries (54 categories)	:	**Annexure-III**
1.7.3	Orange and Green category industries	:	Annexed as **Annexure-IV**
1.7.4	Grossly Polluting industries	:	Stated as 1.7.1
2.	**WATER ENVIRONMENT:**	:	
2.1	Present status of water environment supported with minimum one year analytical data	:	
2.1.1	Water bodies/effluent receiving drains in the area important for water quality monitoring	:	River Ganga – Analysis results of Up stream Mirzapur & Down stream Mirzapur are annexed as **Annexure-V.**

Contd...p/7.

2.1.2	Present levels of pollutants in water bodies/effluent receiving drains/ground water (routine parameters, special parameters and water toxics relevant to the area in three categories- known carcinogens, probable carcinogens and other toxics)	:	Industrial & Domestic effluent of Mirzapur & Vindhyachal City is being discharge into River Ganga. STP of 14 MLD capacity at Mirzapur & 6 MLD capacity at Vindhyachal have already been installed under Ganga Action Plan . To treat the entire domestic effluent including future plans another STP of 14 MLD capacity is proposed in Mirzapur under Ganga Action Plan and DPR has already been submitted.UPPCB is monitoring monthly the STP's of Mirzapur and Vindhyachal. The analysisa results of samples collected in the Month of Sept.,2010 alongwith the details STP's is being annexed as **Annexure-VI.**
2.1.3	Predominant sources contributing to various pollutants	:	1. Agricultural run-off 2. Domestic effluent
2.2	**Sources of water pollution**	:	
2.2.1	Industrial	:	Annexed as **Annexure-III**.
2.2.2	Domestic	:	Mirzapur & Vindhyachal City.
2.2.3	Others (Agricultural runoff, leachate from MSW dump, illegal dump site etc.)	:	
2.2.4	Impact on surrounding area (outside the CEPI Area) on the water courses/drainage system of the area under consideration	:	Impact of industrial & domestic effluent,
2.3	Details of Water Polluting Industries in the area/cluster	:	**Annexure-III**..
2.4	Effluent Disposal Methods-Recipient water bodies etc.	:	Industrial effluent through nalas and domestic effluent into River Ganga through River Lohandi and drains..
2.5	Quantification of wastewater pollution load and relative contribution by different sources viz industrial/domestic	:	Pollution load of Domestic effluent of city Chunar and Ahraura is 900 Kg/day and 500 Kg/day approx. respectively. No industrial waste is being discharged by the industries, located in tehsil Chunar.
2.6	**Action Plan for compliance and control of pollution**	:	

Contd...p/8.

2.6.1	Existing infrastructure facilities- water quality monitoring network, ETPs, CETPs, Sewerage Treatment Plant of industry (STPs), surface drainage system, effluent conveyance channels/outfalls etc.	:	Available.
2.6.2	Pollution control measures installed by Industries	:	All the Dying industries have installed adequate ETP's..
2.6.3	Technological Intervention	:	
	2.6.3.1 Inventorisation of prominent industries with technological gaps	:	As per recommendations of CPCB & MoEF.
	2.6.3.2 Identification of low cost and advanced cleaner technology for pollution control	:	As per recommendations of CPCB & MoEF.
2.6.4	**Infrastructure Renewal**	:	
	2.6.4.1 Details of existing infrastructural facilities	:	Roads, Electricity, Drinking Water, Hospitals, Educational Institutes, Police Security.
	2.6.4.2 Need of up gradation of existing facilities	:	**Roads** – Roads are in very poor conditions and needs to be repaired/ constructed by UP PWD outside the industrial premises. **Electricity** – Shortage of power **Drinking water** – Scarcity of water due to the drought situation since last 5 years and needs to take steps for supply of drinking water by the State Govt. **Health** - Needs to strengthen the health facilities by the State Govt. **Police Security** – Strengthening of Police as the area is covered under Nexal Belt.
	2.6.4.3 De-silting of water tanks, drains, rivulets, etc.	:	Needed

Contd...p/9.

2.6.4.4	Construction of lined drains/ connections	:	Needed
2.6.4.5	Treatment and management of contaminated surface water bodies	:	River Ganga
2.6.4.6	Rejuvenation/Management Plan for important eco-geological features	:	Needed
2.6.4.7	Carrying of effluent from industrial units located in non-industrial locations to CETP facilities by lined drains/ pipelines only and prevention of their disposal into city sewerage/surface drains.	:	N.A.
2.6.4.8	Installation of Gen sets at CETPs	:	N.A.
2.6.5	**Managerial and Financial aspects**	:	
2.6.5.1	Cost and time estimates	:	To be done by concerned Authority/Agency.
2.6.5.2	Identified Private/Public sector potential investors & their contribution/obligation	:	N.A.
2.6.5.3	Government Budgetary support requirement	:	Yes
2.6.5.4	Hierarchical and structured managerial system for efficient implementation	:	Yes

Contd...p/10.

2.6.6	Self monitoring system in industries (ETPs etc.)	:	No.
2.6.7	Data linkages to SPCB/CPCB (of monitoring devices)	:	Not Needed as the dying units are of Small Scale.

3. **AIR ENVIRONMENT:**

3.1	Present status of Air environment supported with minimum one year analytical data	:	Status of Air environment in industries and ambient air Quality monitoring data is being annexed as **Annexure- No.III, IV & VII.**
3.1.1	Critical locations for air quality monitoring	:	Mirzapur & Vindhyachal
3.1.2	Present levels of pollutants in air (routine parameters, special parameters and air toxics relevant to the area in three categories- known carcinogens, probable carcinogens and other toxic)	:	Annexed as **Annexure- VII.**
3.1.3	Predominant sources contributing to various pollutants	:	Transport & Heavy Earth Movers & Domestic.
3.2	**Sources of air Pollution** viz industrial, domestic (Coal &. Biomass burning), natural and Transport & Heavy Earth Movers	:	Industrial, domestic (Coal and Biomass burning), natural and Transport and Heavy Earth Movers.
3.3	Air Polluting Industries in the area/Cluster	:	brassware
3.4	Impact of activities of nearby area on the CEPI Area	:	None
3.5	Quantification of the air pollution load and relative contribution by different sources	:	Annexed as **Annexure-III, IV & VII**

Contd...p/11.

3.6	Action Plan for compliance and control of pollution	:	
3.6.1	Existing infrastructure facilities – Ambient air quality monitoring network	:	Available.
3.6.2	Pollution control measures installed by the individual sources of pollution	:	Annexed as **Annexure- III.**
3.6.3	Technological Intervention	:	As per CPCB & MoEF recommendations.
3.6.3.1	Inventorisation of prominent industries with technological gaps	:	N.A.
3.6.3.2	Identification of low cost and advanced cleaner technology for air pollution control	:	As per CPCB & MoEF recommendations.
3.6.3	Introduction and switch over to cleaner fuel	:	As per CPCB & MoEF recommendations.
3.6.4	Need of infrastructure renovation	:	Needed for repairing/Construction of roads, drinking water, Power Supply, Health facilities and Security.
3.6.4.1	Development of roads	:	Needed for repairing/ Construction of roads.
3.6.5	Impact on CEPI score after installation/ commissioning of full fledged air pollution control systems	:	CEPI score will decrease.
3.6.6	**Managerial and Financial aspects- Cost and time estimates**	:	
3.6.6.1	Cost and time estimates	:	To be done concerned Authorities/Agencies.

Contd...p/12.

3.6.6.2	Identified Private/Public sector potential investors & their contribution/obligation	:	As per Govt. decision.
3.6.6.3	Government Budgetary support requirement	:	Needed
3.6.6.4	Hierarchical and structured managerial system for efficient implementation	:	Needed
3.6.7	**Self monitoring system in industries (Stacks, APCDs)**	:	Not needed as the industries are Small Scale Units.
3.6.8	**Data linkages to SPCB/CPCB (of monitoring devices)**	:	Not needed as the industries are Small Scale Units.

4. **LAND ENVIRONMENT (Soil and Ground Water)** :

4.1 Soil contamination: :

4.1.1 Present status of land environment supported with minimum one year analytical data :

S.No.	Category of Land	% Areas of Land
1.	Forest Area	9.8
2.	Irrigated Area	42.6
3.	Un-irrigated Area	28.4
4.	Culturable Waste	7.7
5.	Area not available for Agriculture	11.5

Contd...p/13.

4.1.2	Critical locations for land/soil pollution assessment and ground water monitoring	:	Chunar city, Baragaon, Dhauhan & Ahraura, Adalhat area.
4.1.3	Present levels of pollutants in land/soil and ground water (routine parameters, special parameters and water toxics relevant to the area in three categories- known carcinogens, probable carcinogens and other toxics)	:	The analysis results of soil of 08 Villages is annexed in **Annexure No.VIII.**
4.1.4	Predominant sources contributing to or posing, danger of pollution of land and ground water such as hazardous/toxic wastes or chemical dumps/storage etc.	:	M.S.W., Chemical Fertilizers and insecticides used by farmers.
4.1.5	Sources of Soil Contamination	:	Chemical fertilizer and insecticides used by farmers & domestic waste.
4.1.6	Types of existing pollution	:	Analysis results are enclosed at **Annexure No.IX.**
4.1.7	Remedies for abatement, treatment and restoration of normal soil quality	:	To encourage the farmers for using bio-fertilizers & availability of LPG.
4.2	**Ground Water contamination:**	:	
4.2.1	Present status/quality of ground water	:	Analysis results of ground water of different places is being annexed **at Annexure No. X.**
4.2.2	Source Identification (Existing sources of Ground water Pollution)	:	M.S.W., Chemical Fertilizers and insecticides used by farmers.
4.2.3	Ground water quality monitoring program	:	Quarterly samples of ground water of Chunar, Aharaura and Adhalat area.

Contd...p/14.

List Of Fauna Within The Study Area

Annexure No - II

Sl.No.	ANIMALS	COMMON NAME
A. MAMMALS		
1.	Bosephus tragocamelus Pallas	Nilgai
2.	Cervus unicolor kerr	Sambhar
3.	Canis aurous Linn.	Jackal
4.	C. lupus Linn.	Bhera
5.	Cuon alpinus Pallas	Wild dog
6.	Felis chaus Guldinsteedt	Jungali billi
7.	Funambulus pennati wroughtoy	Gilehri
8.	Gazella gazella Pallas	Chinkara
9.	Hystric indica Kerr	Shahi
10.	Hyaena hyaena Linn.	Hyaena
11.	Herpestes edwardsi Geoffroy	Neola
12.	Lepus nigncollis F. Cuvier	Khargosh
13.	P. tigris Linn.	Tiger
14.	Peteropus giguateus Brunnich	Chamgadar
15.	Vulpes bengalensis Shaw	Lomiri
B. AVES		
16.	Anser indicus Latham	Hans
17.	Ardea cinerea Linn.	Bagula
18.	Bubucus ibis Linn.	Bagula
19.	Caprimulgus asiaticus Latham	Chhapka
20.	Clamator jacobinus Boddaetrt	Koel
21.	Columba livia strickland	Kabutar
22.	Coracias benghatensis Linn.	Nikanth
23.	Corous pslindens vioillot	Kowwa
24.	Coturnix coturnix Linn	Bater
25.	Cuculus varius Vahl	Koel
26.	Dicrurus adsimilis Bechstein	Bhunjanga
27	Elanus caerulenus Lesfontaines	Cheel
28.	Falco tinnuclulus Daudin	Baz
29.	Fracolinus francolinus Bonaparte	Kola titar

30.	Gallus gallus Linn.	Lalmurghi
31.	Gyps bengalensis Gmelin	Gidh
32.	Grus antigone Linn.	Saras
33.	Haliastur indicus Boddaert	Cheel
34.	Pavo cristatus Linn.	Mor
35.	Perdicula asistaca Whistler	Lava-bater
36.	Pterocles exustus Neumann	Bhat-titar

C. REPTILES		
37.	Bungarus caeruleus	Krait
38.	Carotes versicolor	Girgit
39.	Chemeleon calearatus	Girgit
40.	Crocodilus palustris	Magar
41.	Eehia cannatus	Kandar
42.	Gavialis gangeticus	Ghariyal
43.	Geoemyda triguga	Kacchaua
44.	Bungarus caeruleus	Chipkali
45.	Naja Hannah scheleg	Raj-nag
46.	N. Naja	Nag
47.	Phyas mucosus	Dhaman
48.	Python molurus	AJGAR
49.	Testudo elegans	Kacchua
50.	Trachichium fusoum	Pani Samp
51.	Varanus monitor	Gah

LIST OF COMMON PLANTS FOUND WITHIN THE STUDY AREA

A. TREES			
Sl.No.	Botanical Name	Common Name	Family Name
1.	Acacia auriculiformis Linn.	Acacia	Leguminoceae
2.	A nilotica (Linn) Wild ex.Del.	Babul	Leguminoceae
3.	A catechu Willd	Khair	Leguminoceae
4.	A. farnesiana Willd.	Kikar	Leguminoceae
5.	A. leucophlaea Willd	Reonja	Leguminoceae
6.	Adina cardifolia Hook f.	Haldu	Rubiaceae
7.	Aegle marmelos Correa	Bel	Rutaceae
8.	Ailanthus excelsa Roxb.	Ajan	Simarubeaceae
9.	Albizzia lebbek-Benth	Kala-siris	Leguminoceae
10.	A. odoratissima Benth	Kala-siris	Leguminoceae
11.	A procera Benth	Safed-siris	Leguminoceae
12.	Anogeissus latifolia Wall	Dhaura	Combretaceae
13.	Anthocephalus cadamba Roxb.	Kadam	Rubiaceae
14	Artocarpus integnfolia Linn. f.	Jackfruit	Urticaceae
15.	Azadirachta indica A. Juss.	Neem	Meliaceae
16.	Bombax ceiba Linn.	Semal	Malvaceae
17.	Boswellia serrata Roxb.	Salai	Buseraceae
18.	Buchanania latifolia Roxb. excolebr	Piyal	Anacardiaceae
19.	Butea frondosa Roxb.	Dhak	Leguminoceae
20.	C. Samea		Legumino
21.	Casuarina equisetifolia Forst.	Jhau	Casuarinaceae
22.	Cleistanthus collinus Benth	Karoha	Euphorbiaceae

23.	Cochlospermum gossypium DC	Galgal	Bixineae
24.	Cordia dichotoma Forst. f.	Lasora	Boraginaceae
25.	Dalberga lanceolaria Linn. f.	Hardi	Leguminoceae
26.	Ehretia laevis Roxb.	Chamraor	Boraginaceae
27.	Elaeodendron glaucun Pers.	Mamar	Celastirineae
28.	Emblica Officinalis Gaertn.	Aonla	Euphoribiaceae
29.	Enolaena hookenana W&A	Bhoti	Sterculianceae
30	Erythrina suberosa Roxb.	Harua	Leguminoceae
31.	Eugenia hyyneana Duthie	Kala-Jamun	Myrtaceae
32.	Euphorbia niylia Buch-Ham.	Sehur	Euphorbiaceae
33	Ficus bengalensis Linn	Bargad	Urticaceae
34	F. racemosa Linn.	Parkar	Urticaceae
35	Limonia crenulata Roxb.	Kaitha	Rutaceae
36	Madhuca longifolia (Koeing) Mac	Mahua	Sapotaceae
37	Mallotus philippensis Muell-Arg	Rohini	Euphorbiaceae
38	Mangifera indica Linn.	Aam	Anacardiaceae
39	Melia azedarach Linn.	Bukain	Meliaceae
40	Mimosa rubicaulis Gamble	Ailain	Leguminoceae
41	Miliusa tomentosa Roxb. J. Sinclair	Kari	Anonaceae
42	Mitragyan parvifolia(Roxb.) Korth	Gurhi	Rubiaceae
43	Moringa Oleifera Lamk	Sahjan	Moringeae
44	Nyctanthes arbor-tnstis Linn		Oleaceae
45	Oroxylum indicum Vent	Sauna	Bignoniaceae
46	Ouglinia dalbergioides Benth	Sandan	Leguminoceae
47	Phoenix humilis Royle	Khajur	Palmaceae
48	S. swietenioides Roxb.	Ghanta	Sapindaceae
49	Semercarpus anacardium Linn.	Blelawan	Anacardiaceae
50	Shorea robusta Gaertn.	Sal	Dipterocarpaceae

51	Sterculia urens Roxb.	Kurlu	Sterculiaceae
52	S. villosa Roxb.	Godgudala	Sterculiaceae
53	Soymida febrifuga A. Juss.	Rohina	Meliaceae
54	T. belerica Roxb.	Behera	Cambretaceae
55	T. chebula Retz.	Harah	Cambretaceae
56	Winghtia tomentosa R&S	Dudhi	Apocynaceae
57	Zizyphus glaberima Saut	Kakor	Rhamnaceae
58	Z. mauntiana Lamk	Ber	Rhamnaceae
B. SHRUBS AND HERBS			
59	Calotropis procera R. Br.	Madar	Asclepiadaceae
60	Canssa spiaum Linn.	Karaunda	Rutaceae
61	Cassia occidentalis Linn.	Chakwar	Leguminoceae
62	Dasmodium pulchellum Benth	Ceopathi	Leguminoceae
63	Embelia robusta Roxb.	Bayabirang	Myrsinaceae
64	Euphorbia hirta Linn.	Dudhi	Euphorbiaceae
65	Grewa flavescens A. Juss.	Gangerua	Tiliaceae
66	G. polygama Roxb.	Gursekhi	Tiliaceae
67	Gynandropsis pentaphylla DC.	Hulhul	Cappariadaceae
68	Helicteres isora Linn.	Marorphal	Sterculiaceae
69	Indigoleia cassicide Rohl. ex.DL.	Neel	Leguminoceae
70	Ipamaed toplisus Poll	Kalal	Convolvularceae
71	Lantana camara Linn.	Lantana	Verbenaceae
72	L. crenulata Otto. & Dietr.	Lantana	Verbenaceae
73	Mimosa pudica Linn.	Chuimui	Leguminoceae
74	Moghania chappar J. st. Hilaire	Kasraut	Leguminoceae
75	Phoenix acaulis Roxb.	Khajure	Palmaceae
76	Sida acuta Burm f.	Weed	Malvaceae

C. CLIMBERS			
77	Abrus precatonus Linn.	Ratti	Leguminoceae
78	Bauhinia vahlii W&A	Makoh	Leguminoceae
79	Butea superba Roxb.	Badrasin	Leguminoceae
80	Celastrus paniculata Willd.	Malkangni	Celastrineacae
81	Cissampelos pareira Linn.	Puraina	Menispermaceae
82	Combretum albidum Linn.	Rataru	Combretaceae
83	Cryptolepis buchanani Roem & Sch.	Dudhibell	Ascepiadaceae
84	Millettia auriculata Baker	Ganj	Leguminoceae
D. BAMBOOS			
85	Bambusa arundinacea Retz.	Katila Bans	Gramineae
86	D.stnctus (Roxb.) Nees,ex Munra	Bans	Gramineae
E. PARASITES			
87	Cassytha filiformis Linn.	Amarbel	Lauraceae
88	Cuscuta reflexa Roxb.	Akas bel	Convolvulaceae
89	Dendrophthoe falcate (Lnn.) Etting	Banda	Loranthaceae
F. EPIPHYTES			
90	Vanda roxburghii R. Br.	Rasna	Orchidaceae
G. GRASSES			
91	Apluda mutica Linn.	Bhanjura	Gramineae
92	Anstida hystrix Linn.	Chhota Paura	Gramineae
93	Bothriochioa pertusa Linn.	Jamhar	Gramineae
94	Cenchrus ciliaria Linn.	Anjana	Gramineae
95	Chyrysopogan fulvus (Spreng) chiov	Chikania	Gramineae
96	C. grvilus (Linn) Trin	Kush	Gramineae
97	Cymbopogon martini (Roxb.) watts	Oil Grass	Gramineae
98	Cynodon dactylon Pers	Dub	Gramineae
99	Eulalicpsis binata Retz.	Bagai	Gramineae

ANNEXURE NO.III

DISTRICT – MIRZAPUR

1	2	3	4	5	6	7	8	9	10
1	Annapurna Carpet Ltd. Nakahara	Small	Yarn Dyeing 3000kg/D	180KLD	150 KLD	Homogenization tank, chemical dosing tank, aeration tank, lamela clarifier, settling tank, carbon filter, sludge drying bed	Multi cyclone	Granted 2010	Granted 2010
2	M/s. Swastik Dyeing house, Natwan	Small	Woolen Yarn Dyeing 240 TPA	24 KLD	20 KLD	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Cyclone dust collector, Heat recovery unit, stack height= 100 ft.	Granted 2010	Granted 2010
3	H.A.G. Carpet Indl. Estate	Small	Woolen Yarn Dyeing 270 TPA	60 KLD	50 KLD	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Cyclone	Applied for 2010	Applied for 2010
4	Vindhya Dying Rajapur Road	Small	Yarn Dying 700Kg/D	8 KLD	400LD	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Cyclone dust collector	Not applied	Not applied
5	Vishal Dyeing Barkacha	Small	Woolen Yarn Dyeing 210 TPA	30 KLD	25 KLD	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Cyclone dust collector	Applied for 2010	Applied for 2010
6	Maa Mahamaya Alloys (P) Ltd. Chunar	Small	M.S. Ingots 6000 TPA	8 5 KLD	1200KLD (cooling water recycled)	Soak pit/ septic tank	Cyclone dust collector, wet scrubber	Granted 2010	Granted 2010

Contd....p/7.

1	2	3	4	5	6	7	8	9	10
7	Shanti Gopal Concast (P) Ltd. Chunar.	Large	Sponge Iron 300MT/D	Domestic- 10 KLD Industrial - 500 KLD	10KLD (cooling water recycled)	Soak pit/ septic tank	Bag filter, covered conveyer belt,ESP	Granted 2010	Granted 2010
8	M/s. Chunar Cement Factory, Chunar, Mirzapur (U.P)	Large	Cement 16.8 Lacs/ Annum. Present capacity 45000MT/ Month)	Domestic- 438 KLD Industrial - 690 KLD	438KLD	ETP not required only domestic effluent. Sufficient capacity of Septic tank and soak pit already existing.	Two Bag filter installed. Four No. Nuisance bag filter installed. New bag filter two no. installed for CM1 & CM2 4 Nos. Nuisance bag filter for fugitive dust.	Granted 2010	Granted 2010
9	M/s. R.L.J. Concast Ltd., Chunar, Mirzapur.	Large	Sponge Iron 200T/D	Domestic- $5M^3/D$ Industrial - $70M^3/D$	2.5 KL/Day. (cooling water recycled)	Soak pit/ septic tank	Bag filter, covered conveyer, ESP	Granted 2010	Granted 2010
10	G.P. Engg. Works, Kchwa	Small	----------Industry Closed----------						
11	Girija Dyeing Centre, Hangi Road	Small	----------Industry Closed----------						
12	Hind Engg. Works, Kachwa.	Small	----------Industry Closed----------						
13	Laxmi Dyeing House, Baruhana	Small	----------Industry Closed----------						
14	Mirzapur Chemical Works Samogara	Small	----------Industry Closed----------						

Contd...p/8.

1	2	3	4	5	6	7	8	9	10
15	Shiva Dyeing & Processing, Indl. Estate.	Small	----------Industry Closed----------						
16	Thakurji Engg. Works Pvt. Ltd., Kachwa.	Small	----------Industry Closed----------						
17	Thakurji Krishi Udyog Kachwa	Small	----------Industry Closed----------						
18	Pooja Chemicals Samogara	Small	----------Industry Closed----------						

(A)	**TOTAL AIR POLLUTING INDUSTRIES**	=	**18**
	INDUSTRY CLOSED	=	**09**
	APCS INSTALLED	=	**09**
	OPRS	=	**09**
	OPRNS	=	**--**

(B)	**TOTAL WATER POLLUTING INDUSTRIES**	=	**14**
	INDUSTRY CLOSED	=	**09**
	ETP INSTALLED	=	**05**
	ETP NOT INSTALLED	=	**Nil**
	OPRS	=	**05**

INVENTORY OF DYEING PRINTING UNITS OF UTTAR PRADESH

Sl. No.	Name & Address of Industry	District	Type of Industry	Production capacity	Raw Material	Chemicals / dyes used	Water Consumption (m^3/T)	Effluent generated (m^3/d)	Effluent Characteri-stic before ETP	Possible heavy metal in the effluent	Units of ETP Installed	Hazardous Waste Management System
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	M/s. Annpurna Carpet Pvt. Ltd. Nakahara Road, Mirzapur.	Mirzapur	Carpet Yarn Dying	3000Kg./ Day (Avg.)	Woolen Yarn, Dyes & Chemical	Approx. 15Kg/Day	Approx. 180KL/Day	Approx. 150KL/Day	Sample collection date (11-5-2010) BOD=20mg/l COD=104mg/l TSS=42mg/l TDS=342mg/l	-	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Member of TSDF
2.	M/s. H.A.G. Carpet Pvt. Industrial Estate, Mirzapur	Mirzapur	Carpet Yarn Dying	1000Kg./ Day (Avg.)	Woolen Yarn, Dyes & Chemical	Approx. 05Kg/Day	Approx. 60KL/Day	Approx. 50KL/Day	Sample collection date (19-8-2009) BOD=5mg/l COD=52mg/l TSS=36mg/l TDS=340mg/l	-	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed.	Member of TSDF
3.	M/s. Vishal Dyres, Barkacha, Mirzapur	Mirzapur	Carpet Yarn Dying	500Kg./ Day (Avg.)	Woolen Yarn, Dyes & Chemical	Approx. 2.5Kg/Day	Approx. 30KL/Day	Approx. 25KL/Day	Sample collection date (11-5-2010) BOD=170mg/l COD=624mg/l TSS=192mg/l TDS=376mg/l	-	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Member of TSDF

4.	M/s. Apolo Dying, Jangi Road, Mirzapur.	Mirzapur	Carpet Yarn Dying	200Kg./ Day (Avg.)	Woolen Yarn, Dyes & Chemical	Approx. 1Kg/Day	Approx. 12KL/Day	Approx. 10KL/Day	Sample collection date (11-5-2010) BOD=82mg/l COD=240mg/l TSS=365mg/l TDS=477mg/l	-	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Member of TSDF 0882
5.	M/s. Swastik Yarn & Dyres, Natawa, Mirzapur.	Mirzapur	Carpet Yarn Dying	400Kg./ Day	Woolen Yarn, Dyes & Chemical	Approx. 2Kg/Day	Approx. 24KL/Day	Approx. 20KL/Day	Sample collection date (26-4-2010) BOD=36mg/l COD=156mg/l TSS=64mg/l TDS=348mg/l	-	1.Collection Tank 2. Chemical Tank 3. Primary Setling Tank 4.Aeration (compressed Air) Tank 5.Secondary Settling Tank 6.Filters 7. Sludge Drying Bed	Member of TSDF

Note:-

1. Type of industry: Carpet Yarn dyeing, Sari Printing, gardment dyeing, garment printing, yarn dyeing etc.
2. Provide a separate sheet giving outline about Industrial Processes involved in each type of Industry.
3. Furnish details of Implementation of water and waste minimization scheme, if any.

Annexure No IV

List of orange catogry industries in Teshil Chunar Distt.Mirzapur

(1) मे0 श्रीमती गीता देवी स्टोन क्रशर, अहरौरा, मिर्जापुर . Complying
(2) मे0 राजेश्वर भाई पटेल, भगवतीदेई, चुनार, मिर्जापुर Complying
(3) मे0 शारदा प्रसाद, धुरिया, अहरौरा, मिर्जापुर Complying
(4) मे0 सिद्धनाथ स्टोन वर्क्स, रामपुर, सक्तेशगढ़, मिर्जापुर Complying
(5) मे0 बजरंग स्टोन वर्क्स, बाराडीह, अहरौरा, मिर्जापुर Complying
(6) मे0 श्याम धर इण्टरप्राइजेज, मिर्जापुर Complying
(7) मे0 जय माँ भण्डारी स्टोन वर्क्स, अहरौरा, मिर्जापुर Complying
(8) मे0 सिमप्लेक्स इन्फ्रास्ट्रक्चर, सिन्दुरिया, डगमगपुर, मिर्जापुर Complying
(9) मे0 श्रीराम मिनिरल्स, डगमगपुर, मिर्जापुर Complying
(10) मे0 माँ दुर्गा स्टोन वर्क्स, कंचनपुर, मिर्जापुर Complying
(11) मे0 माँ शारदा स्टोन, कंचनपुर, मिर्जापुर complying
(12) मे0 गीता क्रसिंग इण्डस्ट्रीज, सिंधौरा, डगमगपुर, मिर्जापुर complying
(13) मे0 एन0आई0आर0सी0 क्रसिंग इण्डस्ट्रीज, सिंधौरा, डगमगपुर, मिर्जापुर। **Complying**
(14) मे0 सुमन स्टोन वर्क्स, मादाचक, अहरौरा, मिर्जापुर **Action Initiated**
(15) मे0 रियल स्टोन वर्क्स, जिगना, अहरौरा, मिर्जापुर **Action Initiated**
(16) मे0 तिरूपति बालाजी ट्रेडर्स , धुरिया, अहरौरा , मिर्जापुर **Action Initiated**
(17) मे0 संजय कन्स्ट्रक्शन कम्पनी, जिगना, अहरौरा, मिर्जापुर **Action Initiated**
(18) मे0 जयश्री कृष्णा स्ठोन प्रोडक्ट्स, , धुरिया, अहरौरा, मिर्जापुर **Action Initiated**

जनपद–मिर्जापुर में स्थापित ईंट–भट्ठों की सूची:

उद्योग का नाम व पता	नोटिस प्रेषित दिनांक	टिप्पणी
2	3	4
,, सम्राट ईंट भट्ठा, सुन्दरपुर, चुनार, मिर्जापुर	,,	सह0 स्वी0
,, सरकार ईंट भट्ठा सुन्दरपुर, पो0–जमुहरा, मिर्जापुर	,,	स्थिर चिमनी
,, जी0एस0 ईंट उद्योग, सहसपुरा, पुरूषोत्तमपुर, चुनार, मिर्जापुर	,,	,,
आर0एन0 ईंट उद्योग, ग्रा0–साहपुर, पो0–रूपौधा, मिर्जापुर	,,	,,
,, सरताज ईंट भट्ठा, मलवा, रूपौधा, मिर्जापुर	,,	,,
,, लोकसेवक ईंट भट्ठा, कंतित, विन्ध्याचल, मिर्जापुर	,,	,,

,, गंगा ईंट भट्ठा, देवरिया, चुनार, मिर्जापुर	,,	,,
,, कुमार ईंट भट्ठा, जमालपुर, नरायनपुर, मिर्जापुर	,,	,,
,, विजय ईंट भट्ठा, भोपति, पो0–कमालपुर, मिर्जापुर	,,	,,
,, एम0बी0एस0 ईंट भट्ठा, ग्रा0–बदलापुर, तहसील–चुनार, मिर्जापुर	,,	,,
,, शान्ति ईंट भट्ठा, बेगमपुर, कमालपुर, मिर्जापुर	,,	,,
,, पूजा ईंट भट्ठा, ग्रा0–भरहठां, चुनार, मिर्जापुर	,,	,,
,, इन्दल ईंट उतपादन, रसूलपुर, नरायनपुर, मिर्जापुर	,,	,,
,, अभिषेक ईंट उद्योग, कैलहट, पचेवरा, चुनार, मिर्जापुर	,,	,,
,, दुर्गा ईंट भट्ठा, ग्रा0–भोपती, पो0–कमालपुर, चुनार, मिर्जापुर	,,	,,
,, विज्ञान ईंट भट्ठा, ग्रा0–सझौली, पो0–भरेहठा, चुनार, मिर्जापुर	,,	,,
,, स्वास्तिक ईंट भट्ठा, रसूलपुर, अगरसन, मिर्जापुर	,,	,,
,, गौरव ईंट भट्ठा, ग्रा0–सुन्दरपुर, पो0–जमुहार, मिर्जापुर	,,	,,
,, राम सुरेश सिंह, ईंट भट्ठा, नौगरहाँ, पो0–पचेवरा, मिर्जापुर	,,	,,
,, प्रिंस ईंट भट्ठा, ग्रा0–कमालपुर, नरायनपुर, मिर्जापुर	,,	,,
,, अनन्त ईंट भट्ठा, ग्रा0–फतेहपुर, पो0–पुरूषोत्तमपुर, चुनार, मिर्जापुर	,,	,,
,, न्यू पवन ईंट उद्योग, ग्रा0–गौरा, पो0–गौरा, मिर्जापुर	,,	,,
,, दिनेश कुमार एण्ड कम्पनी, ग्रा0–बेला, पो0–पचेवरा, मिर्जापुर	,,	,,
,, जय भारत एण्ड कम्पनी, ग्रा0–केला–बेला, पो0–अदलपुरा, मिर्जापुर	10.06.08	स्थिर चिमनी
,, सोनी विकास समिति, ग्रा0–परसिया, रूपौधा, चुनार, मिर्जापुर	,,	,,
,, माँ लीलावती देवी एण्ड सन्स ईंट भट्ठा प्रो0 चन्द्रपाल सिंह ग्रा0–नौगरहा, पो0–पचेवरा, चुनार, मिर्जापुर	,,	,,
,, शंकर ईंट भट्ठा, ग्रा0–जमालपुर, पो0–नरायनपुर, चुनार, मिर्जापुर	,,	,,
,, मनोज सेवा समिति, ग्रा0–भोपति, कमालपुर, मिर्जापुर	,,	,,
,, शोभनाथ सिंह, ईंट भट्ठा, ग्रा0 व पो0–गड़ौली, चुनार, मिर्जापुर	,,	,,
,, सोनी ब्रिक्स फील्ड, ग्रा0 परसिया, पो0–रूपौधा, चुनार, मिर्जापुर	,,	,,
,, एस0आर0बी0 ईंट भट्ठा, ग्रा0–जिगनौड़ी, पो0–मेवली, मिर्जापुर	,,	,,
,, गोपाल ब्रिक्स फील्ड, ग्रा0–कतिया, पो0–बरिजीवनपुर, नरायनपुर, मिर्जापुर	,,	,,
,, चौधरी ईंट निर्माता, ग्रा0–फतेहपुर, पुरूषोत्तमपुर, मिर्जापुर	,,	,,
,, नरायनपुर ब्रिक्स वर्क्स, ग्रा0–शिकरा, पो0–जमालपुर, नरायनपुर, मिर्जापुर	,,	,,
,, नंदीप कुमार सिंह एण्ड कं0, ग्रा0–शिवराजपुर, पचेवरा, चुनार, मिर्जापुर	,,	,,
,, प्रभात एण्ड कं0, ग्रा0–कैलहट, पचेवरा, मिर्जापुर	,,	,,
,, बलगू सिंह एण्ड कं0, ग्रा0–भरेहटा, पो0–बरेवां, चुनार, मिर्जापुर	,,	,,
,, संगीता सेवा समिति, ईंट भट्ठा, ग्रा0–प्रतापपुर, पो0–पुरूषोत्तमपुर, मिर्जापुर	,,	,,
,, लालता सिंह एण्ड सन्स, ग्रा0–कैलहट, चुनार, मिर्जापुर	,,	,,
,, अमर ईंट उद्योग, ग्रा0–रूपौधा, नरायनपुर–चुनार, मिर्जापुर	,,	,,
,, अनिल ईंट भट्ठा, ग्रा0–भोपति कमालपुर, चुनार, मिर्जापुर	,,	,,
,, प्रकाश ईंट भट्ठा, ग्रा0–जमुई, पो0–जमुहार, मिर्जापुर	,,	,,
,, लक्ष्मीकान्त ईंट भट्ठा, ग्रा0–भोपति, पो0–कमालपुर, नरायनपुर,	,,	,,

ेर्जापुर		
हरी ईंट उद्योग, ग्रा0–नौगरहां, पो0–पचेवरा, चुनार, मिर्जापुर	,,	,,
,, जय माँ विन्ध्यवासिनी ईंट भट्ठा, भटेहरा, नेवढ़िया, मिर्जापुर	,,	,,
,, जमुना ईंट सेवा समिति, ग्रा0–भोपति, पो0–कमालपुर, मिर्जापुर	,,	,,
एन0डी0के0 ईंट भट्ठा, जगन्नाथपुर, चुनार, मिर्जापुर	10.06.08	स्थिर चिमनी
,, हरी ईंट भट्ठा, पुरानी छावनी, अदलपुरा, चुनार, मिर्जापुर	,,	,,
,0 रचना ईंट भट्ठा, रामजीपुर, पुरूषोत्तमपुर, मिर्जापुर	,,	,,
नाज ईंट भट्ठा, ग्राम–बारी, जीवनपुर, नरायनपुर, मिर्जापुर	,,	,,
पूजा ईंट भट्ठा, ग्रा0 व पो0–फतेहपुर, पुरूषोत्तमपुर, मिर्जापुर	,,	,,
,, संतोष ईंट भट्ठा, सहसपुरा, पुरूषोत्तमपुर, चुनार, मिर्जापुर	,,	,,
,, रतन ईंट भट्ठा, ग्रा0–भेपति, पो0–कमालपुर, चुनार, मिर्जापुर	,,	,,
राष्ट्रीय ईंट भट्ठा, मानिकपुर, अगरसण्ड, मिर्जापुर	,,	,,
,, धरती ईंट उद्योग, परसियाँ, रूपौध, चुनार, मिर्जापुर	,,	,,
,, बेनजीर ईंट भट्ठा, कमालपुर, नरायनपुर, मिर्जापुर	,,	,,
, कुमार ईंट उद्योग, दीक्षितपुर, पो0–पचेवरा, चुनार, मिर्जापुर	,,	,,
. प्रकाश ईंट भट्ठा उद्योग, रूपौधा, चुनार, मिर्जापुर	,,	,,
,, सुरेश ईंट भट्ठा, नौगरहां, पचेवरा, मिर्जापुर	,,	,,
,, प्रकाश ईंट भट्ठा, ग्रा0–रूपौधा, पो0–रूपौधा, चुनार, मिर्जापुर	,,	,,
, प्रकाश ईंट भट्ठा, ग्रा0–जमुई, हमुहार, मिर्जापुर	,,	,,
,, शान्ति ईंट भट्ठा, ग्रा0–वेगपुर–कमालपुर, नरायनपुर, मिर्जापुर	,,	,,
,, उमा ईंट भट्ठा, ग्रा0–जमालपुर, नरायनपुर, मिर्जापुर	,,	,,
,, .वेजेता ईंट भट्ठा, ग्राम–भोपति, पो0–कमलापुर, चुनार, मिर्जापुर	,,	,,
,, प्रकाश ईंट भट्टा, जमुई, जमहार, मिर्जापुर	,,	,,
,, संदीप भट्ठा, सहसपुरा, पुरूषोत्तमपुर, मिर्जापुर	,,	,,
,, जे0बी0 मार्का ईंट उद्योग, कुशहां, अदलपुरा, मिर्जापुर	,,	,,
,, ातुल ईंट उद्योग, ग्रा0–सझौली, पो0–भरेहटा, चुनार, मिर्जापुर	,,	,,
,, सरताज ईंट भट्ठा, ग्रा0–भलवा, पो0–रूपौधा, मिर्जापुर	,,	,,
,, सोनी ब्रिक फील्ड, ग्रा0–परिसिया, पो0–रूपौधा, मिर्जापुर	,,	,,
,, कुन्ती ईंट भट्ठा, ग्रा0–सहसपुरा, पो0–पुरूषोत्तमपुर, मिर्जापुर	,,	,,
,, ानन्त राम सिंह, ईंट भट्ठा फत्तेपुर, पुरूषोत्तमपुर, चुनार, मिर्जापुर	,,	,,
मे0 ओ0पी0 ईंट भट्ठा, रूपौधा, नरायनपुर, मिर्जापुर	10.06.08	स्थिर चिमनी
,, अनिल ईंट भट्ठा, भोपति कमलापुर, चुनार, मिर्जापुर	,,	,,
,, ंगा ईंट भट्टा, रामजीपुर, पुरूषोत्तमपुर, मिर्जापुर	,,	,,
,, एन0एस0 ईंट भट्ठा (श्री मणिराम सिंह) जमालपुर, नरायनपुर, मिर्जापुर	,,	,,
,, शिवम ईंट भट्ठा, भोरमार, माफी, नरायनपुर, मिर्जापुर	,,	,,
,, सोनी ब्रिक्स फील्ड, परसिया, रूपौधा, मिर्जापुर	,,	,,
,, ोजेता ईंट भट्ठा, पो0–भोपति, कमालपुर, चुनार, मिर्जापुर	,,	,,
,, कृष्णा ईंट उद्योग, दीक्षितपुर कैलहट, चुनार, मिर्जापुर	,,	,,
,, पो0के0 ईंट उद्योग, प्रतापपुर, पुरूषोत्तमपुर, मिर्जापुर	,,	,,

पुष्पा ईंट भट्ठा, कुण्डाडीह, नरायनपुर, मिर्जापुर	,,	,,
गोल्ड ब्रिक्स फील्ड, ग्रा0–देवलासी, पो0–रूपौधा, मिर्जापुर	कारण बताओ नोटिस जारी दि0 17.12.09	,,
मुकेश ब्रिक फील्ड, केला–बेला, अदलपुरा, मिर्जापुर	,,	,,
धरती ईंट उद्योग, परसियां रूपौधा, चुनार, मिर्जापुर	,,	,,

नोटः– जनपद मिर्जापुर की सूची के कमांक 3 पर अंकित ईंट –भट्ठा 100 कि0मी0 की त्रिज्या से बाहर है। इसके अतिरिक्त जनपद मिर्जापुर के ईंट –भट्ठे थर्मल पावर प्लाण्ट की 100 कि0मी0 त्रिज्या के अन्तर्गत आच्छादित हैं। जनपद मिर्जापुर के अधिकांष ईंट – भट्ठों द्वारा मा0 उच्च न्यायालय इलाहाबाद में रिट याचिकाएं दायर की गयी हैं।

Annexure No V

U.P. Pollution Control Board is also monitoring the River Ganga in Distt. Mirzapur. The analysis report of the river quality is as follows:-

Sl. No.	Month	Sampling Points	Analysed Parameters				
			pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	TDS (mg/L)
1.	April, 09	U/S	8.2	2.1	10.8	47	269
		D/S	8.1	2.6	18	56	281
2.	May, 09	U/S	N.A.	-	-	-	-
		D/S	N.A.	-	-	-	-
3.	June, 09	U/S	7.53	4.6	28.0	59.0	239
		D/S	7.91	2.9	20.4	61.0	292
4.	July, 09	U/S	7.82	5.4	32.0	-	-
		D/S	7.63	4.6	28.8	-	-
5.	Aug., 09	U/S	7.56	5.2	32.0	62.0	332
		D/S	7.81	4.8	24.4	54.0	334
6.	Sept., 09	U/S	7.80	5.1	32.0	68.0	335
		D/S	7.66	4.5	24.0	56.0	320
7.	Oct., 09	U/S	7.86	2.8	18.4	-	258
		D/S	7.95	3.0	19.2	-	246
8.	Nov., 09	U/S	7.87	5.6	20.0	-	282
		D/S	7.92	2.0	8.0	-	270
9.	Dec., 09	U/S	8.26	3.3	19.2	22.0	250
		D/S	8.07	3.6	21.6	26.0	242
10.	Jan., 10	U/S	8.14	5.6	22.4	28.0	290
		D/S	8.18	7.8	40.0	31.0	289
11.	Feb., 10	U/S	7.83	2.4	18.4	21.0	284
		D/S	7.60	2.6	21.6	24.0	298
12.	Mar., 10	U/S	8.28	2.8	20.8	25.0	293
		D/S	8.43	3.2	23.2	29.0	297
13.	April, 10	U/S	8.47	2.0	12.0	42.0	280
		D/S	8.53	3.5	20.4	51.0	295
14.	May, 10	U/S	8.15	2.6	16.4	38.0	294
		D/S	8.19	3.2	20.8	46.0	302
15.	June, 10	U/S	8.36	2.8	15.2	34.0	284
		D/S	8.21	3.6	21.6	42.0	290

Annexure No VI

Bijuruhi village (A1)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	67.1	34.7	4.6	6.2	<1	<1
2	05.02.2008	65.4	35.9	4.9	6.1	<1	<1
3	11.02.2008	68.3	35.3	4.1	7.0	<1	<1
4	12.02.2008	68.1	37.3	4.4	7.2	<1	<1
5	18.02.2008	69.2	33.1	4.7	7.5	<1	<1
6	19.02.2008	70.4	36.2	5.1	7.7	<1	<1
7	25.02.2008	75.3	34.6	5.3	7.9	<1	<1
8	26.02.2008	79.2	35.9	5.7	8.3	<1	<1
9	01.03.2008	77.9	32.7	5.9	8.6	<1	<1
10	02.03.2008	71.6	36.5	6	8.9	<1	<1
11	08.03.2008	73.3	35.8	5.8	9.1	<1	<1
12	09.03.2008	76.4	38.2	5.3	9.4	<1	<1
13	15.03.2008	80.1	40.0	5.1	9.7	<1	<1
14	16.03.2008	80.6	38.8	5	10	<1	<1
15	22.03.2008	82.4	37.7	4.9	9.8	<1	<1
16	23.03.2008	78.5	39.9	4.6	9.5	<1	<1
17	29.03.2008	74.8	34.4	4.4	9.9	<1	<1
18	30.03.2008	76.7	34.8	4.2	9.4	<1	<1
19	06.04.2008	79	30.4	4.1	9	<1	<1
20	07.04.2008	80.5	36.8	5	8.5	<1	<1
21	13.04.2008	83.4	39.8	5.7	8.1	<1	<1
22	14.04.2008	84.6	30.1	5.3	7.8	<1	<1
23	20.04.2008	85	30.5	4.8	7.3	<1	<1
24	21.04.2008	83.6	32.6	4.4	7	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	65.4	30.1	4.1	6.1	<1	<1
Maximum Value	85	40	6	10	<1	<1
Arithmetic Mean	76.308	35.502	4.9708	8.3292	<1	<1
Standard Deviation	5.9475	2.8989	0.5714	1.1686		
10th percentile	68.16	31.13	4.26	7	--	--
30th percentile	73.13	34.58	4.6	7.68	--	--
50th percentile	77.3	35.867	4.95	8.4	--	--
80th percentile	81.32	37.885	5.46	9.44	--	--
98th percentile	84.816	39.977	5.954	9.954	--	--

Dongrabir village (A3)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	68.6	35.4	5.8	9.9	<1	<1
2	05.02.2008	69.4	36.5	5.3	9.8	<1	<1
3	11.02.2008	70.1	30.1	5.7	9.2	<1	<1
4	12.02.2008	70.8	35.4	5.4	9.1	<1	<1
5	18.02.2008	72.5	38.3	5.5	9.3	<1	<1
6	19.02.2008	73.6	34.1	4.9	9.0	<1	<1
7	25.02.2008	73.4	38.2	4.7	9.5	<1	<1
8	26.02.2008	74.6	36.3	4.5	9.6	<1	<1
9	01.03.2008	75	38.7	4.1	9.2	<1	<1
10	02.03.2008	75.3	36.6	4.9	8.9	<1	<1
11	08.03.2008	76.8	39.8	4.7	8.7	<1	<1
12	09.03.2008	74.4	38.4	4.8	8.3	<1	<1
13	15.03.2008	72.6	38.5	4.4	8.4	<1	<1
14	16.03.2008	71.9	37.2	4.3	8.2	<1	<1
15	22.03.2008	72	39.3	4.5	8.8	<1	<1
16	23.03.2008	72.7	34.2	4.6	8.6	<1	<1
17	29.03.2008	76.1	38.7	4.2	8.1	<1	<1
18	30.03.2008	79.4	36.9	4.0	8	<1	<1
19	06.04.2008	80.2	34.2	4.3	7.6	<1	<1
20	07.04.2008	81.5	35.7	4.5	7.5	<1	<1
21	13.04.2008	83.1	37.2	4.8	7.3	<1	<1
22	14.04.2008	84	38.1	5.0	7.1	<1	<1
23	20.04.2008	84.6	37.3	5.2	7.4	<1	<1
24	21.04.2008	85.3	37.6	5.5	7.2	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	68.6	30.1	4	7.1	<1	<1
Maximum Value	85.3	39.8	5.8	9.9	<1	<1
Arithmetic Mean	75.746	36.779	4.8167	8.5292	<1	<1
Standard Deviation	5.02	2.1492	0.5147	0.8605	--	--
10th percentile	70.31	34.2	4.23	7.33	--	--
30th percentile	72.59	36.24	4.5	8.09	--	--
50th percentile	74.5	37.2	4.75	8.65	--	--
80th percentile	80.72	38.44	5.34	9.24	--	--
98th percentile	84.978	39.57	5.754	9.854	--	--

Gosaipur village (A6)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	70.3	32.4	5.3	8.1	<1	<1
2	05.02.2008	71.2	33.1	5.8	8.3	<1	<1
3	11.02.2008	72.4	33.4	5.0	8.7	<1	<1
4	12.02.2008	75.8	31.9	6.1	8.0	<1	<1
5	18.02.2008	76.7	35.0	5.6	8.6	<1	<1
6	19.02.2008	77.5	35.3	5.1	8.4	<1	<1
7	25.02.2008	79.0	36.3	5.4	8.5	<1	<1
8	26.02.2008	80.1	32.6	5.6	8.8	<1	<1
9	01.03.2008	81.2	33.8	5.2	8.3	<1	<1
10	02.03.2008	81.4	36.8	4.8	9.0	<1	<1
11	08.03.2008	79.5	34.9	4.6	9.2	<1	<1
12	09.03.2008	77.0	39.0	4.1	9.3	<1	<1
13	15.03.2008	78.3	34.7	4.7	9.7	<1	<1
14	16.03.2008	82.4	32.0	4.1	9.1	<1	<1
15	22.03.2008	77.2	38.7	4.5	8.9	<1	<1
16	23.03.2008	76.4	36.4	4.0	8.6	<1	<1
17	29.03.2008	76.1	33.3	4.2	8.4	<1	<1
18	30.03.2008	75.3	37.2	4.1	8.1	<1	<1
19	06.04.2008	75.2	32.4	4.3	8.2	<1	<1
20	07.04.2008	74.9	36.3	4.7	7.6	<1	<1
21	13.04.2008	74.5	37.5	4.8	7.2	<1	<1
22	14.04.2008	74.3	33.8	4.9	7.1	<1	<1
23	20.04.2008	73.9	36.6	4.1	6.9	<1	<1
24	21.04.2008	73.4	34.1	4.3	6.6	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	70.3	31.9	4	6.6	<1	<1
Maximum Value	82.4	39	6.1	9.7	<1	<1
Arithmetic Mean	76.417	34.896	4.8042	8.3167	<1	<1
Standard Deviation	3.1545	2.1109	0.6075	0.7822	--	--
10th percentile	72.7	32.4	4.1	7.13	--	--
30th percentile	74.86	33.39	4.3	8.1	--	--
50th percentile	76.25	34.8	4.75	8.4	--	--
80th percentile	79.2	36.68	5.34	8.94	--	--
98th percentile	81.94	38.862	5.962	9.516	--	--

Ishwanthpur village (A8)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	78.7	36.3	6.2	10.3	<1	<1
2	05.02.2008	78.6	34.5	6.7	10.1	<1	<1
3	11.02.2008	75.8	34.8	6.1	9.8	<1	<1
4	12.02.2008	73.7	35.1	6.5	9.1	<1	<1
5	18.02.2008	74.1	37.8	5.9	9.0	<1	<1
6	19.02.2008	79.7	37.5	5.3	9.2	<1	<1
7	25.02.2008	72.4	36.1	5.9	9.9	<1	<1
8	26.02.2008	72.1	35.3	5.8	9.6	<1	<1
9	01.03.2008	73.8	36.1	5.5	8.9	<1	<1
10	02.03.2008	76.8	34.8	4.9	8.5	<1	<1
11	08.03.2008	73.3	33.9	4.7	8.7	<1	<1
12	09.03.2008	73.7	34.2	4.4	8.4	<1	<1
13	15.03.2008	72.9	36.7	4.3	8.1	<1	<1
14	16.03.2008	71.3	37.2	4.8	7.9	<1	<1
15	22.03.2008	70.4	36.8	4.5	7.7	<1	<1
16	23.03.2008	70.1	39.2	5.6	7.8	<1	<1
17	29.03.2008	69.9	35.2	5.2	7.6	<1	<1
18	30.03.2008	69.7	34.0	5.7	7.3	<1	<1
19	06.04.2008	68.3	33.2	6	8.2	<1	<1
20	07.04.2008	71.4	33.6	6.3	8.8	<1	<1
21	13.04.2008	71.9	36.0	5.6	8.5	<1	<1
22	14.04.2008	77.5	35.5	5.1	9.2	<1	<1
23	20.04.2008	74.7	34.2	6.4	9.6	<1	<1
24	21.04.2008	75.5	38.3	6.1	9.8	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	68.3	33.2	4.3	7.3	<1	<1
Maximum Value	79.7	39.2	6.7	10.3	<1	<1
Arithmetic Mean	73.596	35.679	5.5625	8.8333	<1	<1
Standard Deviation	3.0956	1.5748	0.6965	0.854	--	--
10th percentile	69.96	33.93	4.56	7.73	--	--
30th percentile	71.85	34.77	5.19	8.38	--	--
50th percentile	73.5	35.4	5.65	8.85	--	--
80th percentile	76.2	36.96	6.14	9.68	--	--
98th percentile	79.24	38.786	6.608	10.208	--	--

Pipariya village (A2)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	71.9	38.8	4.2	7.8	<1	<1
2	05.02.2008	74.8	33.1	4.7	7.3	<1	<1
3	11.02.2008	77.6	37.3	5.1	7.6	<1	<1
4	12.02.2008	79.5	34.1	5.7	7.9	<1	<1
5	18.02.2008	77.3	31.0	6.3	8.5	<1	<1
6	19.02.2008	72.7	35.1	6.5	8.7	<1	<1
7	25.02.2008	78.4	36.7	6.4	8.9	<1	<1
8	26.02.2008	75.2	32.3	6.2	8.3	<1	<1
9	01.03.2008	70.7	30.8	6.6	7.7	<1	<1
10	02.03.2008	77.5	38.6	5.9	7.1	<1	<1
11	08.03.2008	79.3	33.5	5.8	7.0	<1	<1
12	09.03.2008	80.4	39.4	5.7	6.8	<1	<1
13	15.03.2008	85.6	36.2	5.3	6.7	<1	<1
14	16.03.2008	84.9	30.9	5.1	7.5	<1	<1
15	22.03.2008	83.2	35.5	5.2	7.8	<1	<1
16	23.03.2008	83.5	37.2	4.9	8.6	<1	<1
17	29.03.2008	81.2	34.4	4.7	9.0	<1	<1
18	30.03.2008	83.8	37.9	4.6	9.4	<1	<1
19	06.04.2008	83.6	35.6	5.4	9.7	<1	<1
20	07.04.2008	84.6	38.3	5.0	10.1	<1	<1
21	13.04.2008	84.9	31.7	5.3	10.4	<1	<1
22	14.04.2008	82.2	33.2	6.1	10.5	<1	<1
23	20.04.2008	81.1	35.3	6.4	9.9	<1	<1
24	21.04.2008	81.6	36.2	6.5	9.4	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	70.7	30.8	4.2	6.7	<1	<1
Maximum Value	85.6	39.4	6.6	10.5	<1	<1
Arithmetic Mean	79.813	35.129	5.5667	8.4417	<1	<1
Standard Deviation	4.3632	2.6471	0.7051	1.1643	--	--
10th percentile	73.33	31.21	4.7	7.03	--	--
30th percentile	77.59	33.47	5.1	7.69	--	--
50th percentile	80.75	35.4	5.55	8.4	--	--
80th percentile	83.68	37.54	6.34	9.52	--	--
98th percentile	85.278	39.124	6.554	10.454	--	--

Shivpur village (A7)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	70.4	30.9	5.7	9.6	<1	<1
2	05.02.2008	72.6	34.8	5.6	10.4	<1	<1
3	11.02.2008	71.3	34.3	5.9	10.6	<1	<1
4	12.02.2008	70.5	32.2	6.3	9.8	<1	<1
5	18.02.2008	70.8	38.6	6.1	10.3	<1	<1
6	19.02.2008	71.5	36.1	6	10	<1	<1
7	25.02.2008	72.8	34.3	5.5	9.4	<1	<1
8	26.02.2008	74.6	37.9	5.1	9.7	<1	<1
9	01.03.2008	75.7	35.1	4.9	9.8	<1	<1
10	02.03.2008	76.2	37.2	4.7	8.6	<1	<1
11	08.03.2008	78.1	30.2	4.5	9.9	<1	<1
12	09.03.2008	78.3	32.1	4.3	9.3	<1	<1
13	15.03.2008	77.8	35.6	4.1	10.2	<1	<1
14	16.03.2008	76.5	32.5	4.4	9.9	<1	<1
15	22.03.2008	74.3	35.6	4.7	9.4	<1	<1
16	23.03.2008	72.2	34.2	4.2	9	<1	<1
17	29.03.2008	72.7	35.7	4.5	8.9	<1	<1
18	30.03.2008	73.5	34.5	4.9	8.5	<1	<1
19	06.04.2008	74.6	32.9	6.2	8.2	<1	<1
20	07.04.2008	70.4	34.1	6.4	8.7	<1	<1
21	13.04.2008	69.1	30.6	6	8.6	<1	<1
22	14.04.2008	69.2	35.5	5.9	8.1	<1	<1
23	20.04.2008	68.8	35.1	5.7	7.9	<1	<1
24	21.04.2008	68.5	39.6	5.3	7.7	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	68.5	30.2	4.1	7.7	<1	<1
Maximum Value	78.3	39.6	6.4	10.6	<1	<1
Arithmetic Mean	72.933	34.567	5.2875	9.2708	<1	<1
Standard Deviation	3.0367	2.4173	0.7409	0.8359	--	--
10th percentile	69.13	31.26	4.33	8.13	--	--
30th percentile	70.77	33.98	4.7	8.69	--	--
50th percentile	72.65	34.65	5.4	9.4	--	--
80th percentile	75.9	35.86	6	9.94	--	--
98th percentile	78.208	39.14	6.354	10.508	--	--

Ballipur village (A5)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	65.5	32.9	4.7	6.7	<1	<1
2	05.02.2008	67.3	34.8	4.2	6.9	<1	<1
3	11.02.2008	66.2	31.0	4.0	7.2	<1	<1
4	12.02.2008	68.2	33.6	4.1	7.0	<1	<1
5	18.02.2008	69.9	36.2	4.6	7.9	<1	<1
6	19.02.2008	68.3	35.3	4.2	8.1	<1	<1
7	25.02.2008	68.8	38.7	4.0	8.5	<1	<1
8	26.02.2008	74.1	37.1	4.5	8.9	<1	<1
9	01.03.2008	74.4	35.4	4.8	8.2	<1	<1
10	02.03.2008	76.5	32.6	5.3	7.8	<1	<1
11	08.03.2008	65.9	34.3	5.5	7.5	<1	<1
12	09.03.2008	70.5	36.5	5.8	7.1	<1	<1
13	15.03.2008	73.1	31.2	5.1	6.8	<1	<1
14	16.03.2008	77.7	38.5	4.7	6.5	<1	<1
15	22.03.2008	80.4	34.7	4.4	7.4	<1	<1
16	23.03.2008	82.0	39.2	4.1	7.7	<1	<1
17	29.03.2008	78.7	33.4	4.8	8.3	<1	<1
18	30.03.2008	74.3	36.1	4.6	8.8	<1	<1
19	06.04.2008	73.6	38.9	4.9	9.2	<1	<1
20	07.04.2008	71.2	31.6	4.3	10.1	<1	<1
21	13.04.2008	78.3	35.2	4.8	9.1	<1	<1
22	14.04.2008	72.1	37.7	5.6	9.9	<1	<1
23	20.04.2008	72.2	34.0	5.4	10.0	<1	<1
24	21.04.2008	76.6	33.2	5.7	9.6	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	65.5	31	4	6.5	<1	<1
Maximum Value	82	39.2	5.8	10.1	<1	<1
Arithmetic Mean	69.55	33.704	4.5167	7.7333	<1	<1
Standard Deviation	4.7694	2.4618	0.5328	1.0911	--	--
10th percentile	66.42	31.8	4.1	6.82	--	--
30th percentile	69.46	33.84	4.36	7.32	--	--
50th percentile	72.2	35.2	4.7	7.9	--	--
80th percentile	77.22	37.46	5.22	9.02	--	--
98th percentile	81.296	39.068	5.712	10.056	--	--

Chormorwa village (A4)

S.No.	Date of Sampling	SPM	RPM	SO2	NOx	HC	CO
		µg/m3	µg/m3	µg/m3	µg/m3	PPM	PPM
1	04.02.2008	65.1	30.9	4.6	9.2	<1	<1
2	05.02.2008	65.4	34.7	4.3	9.4	<1	<1
3	11.02.2008	66.2	32.4	4.5	9.5	<1	<1
4	12.02.2008	69.7	30.5	4.8	9.7	<1	<1
5	18.02.2008	69.9	30.0	4.2	9.8	<1	<1
6	19.02.2008	70.2	34.4	5.0	9.1	<1	<1
7	25.02.2008	72.3	35.8	5.2	9.9	<1	<1
8	26.02.2008	72.5	35.5	5.4	10.2	<1	<1
9	01.03.2008	73.3	37.8	5.1	9.6	<1	<1
10	02.03.2008	72.9	35.4	4.9	9.0	<1	<1
11	08.03.2008	74.6	37.6	4.5	8.6	<1	<1
12	09.03.2008	75.4	34.7	4.2	8.5	<1	<1
13	15.03.2008	75.6	36.6	4.9	8.3	<1	<1
14	16.03.2008	76.8	32.2	5.1	8.0	<1	<1
15	22.03.2008	77.1	36.4	5.4	7.9	<1	<1
16	23.03.2008	78.3	34.0	5.6	7.7	<1	<1
17	29.03.2008	78.1	35.6	5.2	7.5	<1	<1
18	30.03.2008	76.3	35.4	5.4	7.3	<1	<1
19	06.04.2008	75.1	38.6	5.8	7.1	<1	<1
20	07.04.2008	75.4	35.7	5.3	7.0	<1	<1
21	13.04.2008	78.7	31.2	5.0	6.9	<1	<1
22	14.04.2008	77.3	32.9	4.9	6.7	<1	<1
23	20.04.2008	75.8	33.6	4.7	6.5	<1	<1
24	21.04.2008	74.3	34.7	4.4	6.3	<1	<1

	SPM	RPM	SO2	NOx	HC	CO
Minimum Value	65.1	30	4.2	6.3	<1	<1
Maximum Value	78.7	38.6	5.8	10.2	<1	<1
Arithmetic Mean	73.596	34.442	4.9333	8.3208	<1	<1
Standard Deviation	4.0058	2.3383	0.443	1.2144	--	--
10th percentile	67.25	30.99	4.33	6.76	--	--
30th percentile	72.48	33.53	4.69	7.48	--	--
50th percentile	74.85	34.7	4.95	8.4	--	--
80th percentile	76.92	36.04	5.34	9.54	--	--
98th percentile	78.516	38.232	5.708	10.062	--	--

क्षेत्रीय कार्यालयः उ0प्र0 प्रदूषण नियंत्रण बोर्ड, सोनभद्र

Annexure No. VI

उ0प्र0 में स्थापित घरेलू बहिश्राव शुद्धिकरण संयंत्रों (एस0टी0पी0) का स्टेट्स

क्र0 सं0	शहर	एस0टी0पी0 का नाम	जल निगम द्वारा पूर्व में उपलब्ध कराई गई सूचना के अनुसार कुल सीवेज उत्पादन (एम0एल0डी0)	एस0टी0पी0 क्षमता (एम0एल0डी0)	स्थापित यूनिट के नाम तथा साइज	संचालित है या नहीं	शोधित उत्प्रवाह गुणता दिनांक बी0ओ0डी0 / सी0ओ0डी0 / एस0एस0 / टोटल कोलीफार्म / फोकल कोलीफार्म (मिग्रा0 / ली0) मानक– बी0ओ0डी0–30 मिग्रा0 / ली0 सी0ओ0डी0–250 मिग्रा0 / ली0 एस0एस0–100 मिग्रा0 / ली0	नदी जिसमें अन्तिम रूप से उत्प्रवाह जाता है / सिचाई हेतु	सुधार की आवश्यकता है या नहीं यदि हाँ तो क्यों।	नदी जिसमें अन्तिम रूप से उत्प्रवाह जाता है / सिंचाई हेतु	सुधार की आवश्यकता है या नहीं यदि हाँ तो क्यों
1	2	3	4	5	6	7	8	9	10	11	12
1.	**मीरजापुर**	ऊर्ध्व प्रवाह वातनिरपेक्षी अवमल आवरण प्रकार अवमल शोधन संयंत्र, पक्का पोखरा, मीरजापुर	**15.6** एम0एल0डी0	14 एम0एल0डी0	1. अन्तर्गम कक्ष 2. छलनी कक्ष 3. बजरी कक्ष 4. निर्गम कक्ष 5. विभाजन मंजूषा 6. वितरण मंजूषा 7. प्रतिकर्मी 8. अवमल शोषित सतहें (17.00x15.00)मी 9. आक्सीकरण कुण्ड (175.80x68x1.25)मी 10. गैस होल्डर 11. जनरेटर कक्ष 12. गैस बर्नर 13. अवमल सम्प पम्प	संचालित है	निरीक्षण एवं नमूना एकत्रण **दिनांक– 2710..2010** दिनांकः **25–08–2010** पी0एच0 – **7.19** बी0ओ0डी0– **34.00** सी0ओ0डी0– **128.00** टी0एस0एस0– **112.00** टी0डी0एस0– **364.0**	बहिश्राव नाले से होकर गंगा नदी में	विद्युत कटौती औसतन 10 घंटे प्रतिदिन हो रही है। वर्तमान में मिर्जापुर शहर से जनित घरेलू उत्प्रवाह की अनुमानित मात्रा लगभग **28 MLD** है जिसके लिए 14 एम0एल0 डी0 क्षमता के एक और अवमल शोधन संयंत्र के निर्माण की आवश्यकता है।	बहिश्राव नाले से होकर गंगा नदी में है	बहिश्राव नाले को वायु प्रदूषण से मुक्त करने हेतु इसे ढकने की आवश्यकता है। अस्तु भूमिगत नलिका बिछाने / नाले को ढकने की आवश्यकता है।

क्रमशः 2 / पर.....

1	2	3	4	5	6	7	8	9	10	11	12
2.	**विन्ध्याचल** (मीरजापुर)	अवमल स्थिरीकरण कुण्ड प्रकार अवमल उपचार संयंत्र विन्ध्याचल (मीरजापुर)	**1.6** एम0एल0डी0	4 एम0एल0डी0	1. अन्तर्गम कक्ष 2. छलनी कक्ष 3. बजरी कक्ष 4. वातनिरपेक्षी कुण्ड 5. विकल्पी कुण्ड 6. परिपक्वता कुण्ड क्रमांक–1 7. परिपक्वता कुण्ड क्रमांक–2 8. अवमल शोषित सतहें	संचालित है	निरीक्षण एवं नमूना एकत्रण **दिनांक– 27.10..2010** **दिनांक: 25–08–2010** पी0एच0 – **7.34** बी0ओ0डी0– **24.00** सी0ओ0डी0– **88.00** टी0एस0एस0– **58.00** टी0डी0एस0 – **340.00**	बहिश्राव नाले से होकर गंगा नदी में	परिपक्वता कुण्ड के उपरान्त मत्स्य कुण्ड के निर्माण की आवश्यकता है जिससे विभाग को आर्थिक लाभ के साथ–साथ उपचार संयंत्र की कार्य प्रणाली/ गुणवत्ता में सुधार आयेगा। इसके अतिरिक्त समस्त कुण्डों को सुचारू अनुरक्षण के दृष्टिकोण से बाई पास नव निर्माण/ संयोजन की आवश्यकता है।	बहिश्राव नाले से होकर गंगा नदी में है	बहिश्राव नाले को वायु प्रदूषण से मुक्त करने हेतु इसे ढकने की आवश्यकता है। अस्तु भूमिगत नलिका बिछाने/ नाले को ढकने की आवश्यकता है।

ANNEXURE NO.VII

SOIL QUALITY OF THE STUDY AREA

Sl. No.	Parameter	Unit	Results							
			S1	S2	S3	S4	S5	S6	S7	S8
1	pH (1:2 Soil Water Extract)	-	6.51	6.64	7.25	5.78	7.02	6.07	7.26	5.91
2	Electrical Conductivity	µS/cm	225	261	223	221	104	269	174	165
3	Total Soluble Salts	mg/kg	266	245	216	280	121	340	242	230
4	Nitrate as N	mg/l	14	10	9	11	6	31	27	8
5	Phosphorous as P_2O_5	mg/kg	17	15	12	18	7	35	22	12
6	Potash as K_2O	mg/kg	76	112	140	134	51	125	196	82
7	Sodium as Na_2O	mg/kg	170	249	184	166	310	480	276	320
8	Calcium as Ca	mg/kg	694	717	790	675	992	1780	2272	1060
9	Magnesium as Mg	mg/kg	130	112	141	107	120	313	450	422
10	Chloride as Cl	mg/kg	59	62	34	55	22	69	52	31
11	Organic carbon	%	0.91	0.87	0.79	0.94	0.38	1.07	1.01	0.45
12	Texture	-	SL	SL	SL	SL	SL	SL	SL	SL
13	Sand	%	20	12	18	13	15	16	18	22
14	Silt	%	28	32	36	34	38	35	27	30
15	Clay	%	47	50	52	54	46	49	51	48
16	Iron as Fe	mg/kg	17	20	21	18	16	22	29	25
17	Boron as B	mg/kg	0.11	0.13	0.19	0.15	0.12	0.15	0.23	0.17

The soil testing results pertains to village Bijurhi,Pipariya,Dongrabir,Chormorwar,Ballipur,Gosainpur,Shivpur and Yashwantpur of Tehsil Chunar,Distt.Mirzapur.

Annexure-VII

GROUND Water Quality Monitoring Stations

S.No	Code	Name of Sampling Station	Source of Water
1	GW1	Bijurahi village	Borewell
2	GW2	Pipariya village	Borewell
3	GW3	Dongrabir village	Borewell
4	GW4	Chormorwa village	Borewell
5	GW5	Ballipur village	Borewell
6	GW6	Gosaipur village	Borewell
7	GW7	Shivpur village	Borewell
8	GW8	Ishwanthpur village	Borewell

Ground water Quality Of The Study Area

No.	No.	Parameter	Units	Result			
				GW5	GW6	GW7	GW8
I	I	***Essential Characteristics***					
1	1	Colour	Hazen	<5	<5	<5	<5
2	2	Odour	-	UO	UO	UO	UO
3	3	Total suspended solids	-	8	10	11	5
4	4	Turbidity	NTU	3	2	4	2
5	5	pH	-	7.63	7.60	7.41	7.35
6	6	Total Hardness as $CaCO_3$	mg/l	162	395	141	172
7	7	Iron as Fe	mg/l	0.14	0.12	0.16	0.24
8	8	Chlorides as Cl	mg/l	26	83	15	47
9	9	Conductivity	mg/l	582	1021	168	315
II	II	***Desirable Characteristics***					
10	10	Dissolved Solids	mg/l	374	427	193	245
11	11	Calcium as Ca	mg/l	41	32	50	62
12	12	Magnesium as Mg	mg/l	14	16	17	21
13	13	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
14	14	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
15	15	Sulphate as SO_4	mg/l	23	44	31	36
16	16	Nitrate as NO_3	mg/l	13	30	28	32
17	17	Fluoride as F	mg/l	0.9	0.6	0.3	0.7
18	18	Phenolic Compounds as C_6H_5OH	mg/l	BDL	BDL	BDL	BDL
19	19	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL
20	20	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL
21	21	Selenium as Se	mg/l	BDL	BDL	BDL	BDL
22	22	Arsenic as As	mg/l	BDL	BDL	BDL	BDL
23	23	Cyanide as Cn	mg/l	BDL	BDL	BDL	BDL
24	24	Lead as Pb	mg/l	BDL	BDL	BDL	BDL
25	25	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL
26	26	Sulphide (as S)	mg/l	BDL	BDL	BDL	BDL
27	27	Chromium as Cr^{6+}	mg/l	BDL	BDL	BDL	BDL
28	28	Oil and Grease	mg/l	<1	<1	<1	<1
29	29	Alkalinity	mg/l	145	167	120	118
30	30	Barium	mg/l	BDL	BDL	BDL	BDL
31	31	Boron as B	mg/l	0.07	0.10	0.06	0.08
32	33	Sodium as Na	mg/l	63	60	13	17
33	34	Percent sodium	mg/l	35.38	25.37	34.11	15.13
34	35	Nitrate as NO_2,	mg/l	BDL	BDL	BDL	BDL
35	36	Nickel (as Ni)	mg/l	BDL	BDL	BDL	BDL
36	37	Silver (as Aq)	mg/l	BDL	BDL	BDL	BDL
37	38	Dissolved Oxygen	mg/l	4.64	4.81	4.40	4.76
38	39	Ammonical Nitrogen	mg/l	BDL	BDL	BDL	BDL
39	40	Kjeldhal Nitrogen	mg/l	BDL	BDL	BDL	BDL
40	41	Free Ammonia	mg/l	BDL	BDL	BDL	BDL
41	42	Residual Na2CO3	mg/l	Nil	Nil	Nil	Nil
42	43	Dissolved phosphate	mg/l	BDL	BDL	BDL	BDL
43	44	Chemical Oxygen Demand	mg/l	7	5	6	5

Ground water Quality Of The Study Area

No.	Sl. No.	Parameter	Units	Result			
				GW1	GW2	GW3	GW4
I	I	***Essential Characteristics***					
1	1	Colour	Hazen	<5	<5	<5	<5
2	2	Odour	-	UO	UO	UO	UO
3	3	Total suspended solids	Mg/l	6	8	7	9
4	4	Turbidity	NTU	5	2	5	4
5	5	pH	-	7.13	7.82	7.31	7.22
6	6	Total Hardness as $CaCO_3$	mg/l	180	376	159	221
7	7	Iron as Fe	mg/l	0.13	0.11	0.23	0.21
8	8	Chlorides as Cl	mg/l	24	59	31	98
9	9	Conductivity	(µmhos/cm	279	850	411	770
II	II	***Desirable Characteristics***					
10	10	Dissolved Solids	mg/l	162	461	252	290
11	11	Calcium as Ca	mg/l	31	70	47	53
12	12	Magnesium as Mg	mg/l	8	23	13	18
13	13	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
14	14	Manganese as Mn	mg/l	BDL	BDL	0.01	0.07
15	15	Sulphate as SO_4	mg/l	24	40	18	32
16	16	Nitrate as NO_3	mg/l	15	26	17	35
17	17	Fluoride as F	mg/l	0.7	0.5	0.8	0.9
18	18	Phenolic Compounds as C_6H_5OH	mg/l	BDL	BDL	BDL	BDL
19	19	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL
20	20	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL
21	21	Selenium as Se	mg/l	BDL	BDL	BDL	BDL
22	22	Arsenic as As	mg/l	BDL	BDL	BDL	BDL
23	23	Cyanide as Cn	mg/l	BDL	BDL	BDL	BDL
24	24	Lead as Pb	mg/l	BDL	BDL	BDL	BDL
25	25	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL
26	26	Sulphide (as S)	mg/l	BDL	BDL	BDL	BDL
27	27	Chromium as Cr^{6+}	mg/l	<1	<1	<1	<1
28	28	Oil and Grease	mg/l	88	180	154	142
29	29	Alkalinity	mg/l	BDL	BDL	BDL	BDL
30	30	Barium	mg/l	0.05	0.13	0.11	0.09
31	31	Boron as B	mg/l	11	24	19	71
32	33	Sodium as Na	mg/l	18.70	13.94	23.12	39.91
33	34	Percent sodium	mg/l	BDL	BDL	BDL	BDL
34	35	Nitrate as NO_2,	mg/l	BDL	BDL	BDL	BDL
35	36	Nickel (as Ni)	mg/l	BDL	BDL	BDL	BDL
36	37	Silver (as Aq)	mg/l	4.15	4.46	4.00	4.38
37	38	Dissolved Oxygen	mg/l	BDL	BDL	BDL	BDL
38	39	Ammonical Nitrogen	mg/l	BDL	BDL	BDL	BDL
39	40	Kjeldhal Nitrogen	mg/l	BDL	BDL	BDL	BDL
40	41	Free Ammonia	mg/l	Nil	Nil	Nil	Nil
41	42	Residual Na2CO3	mg/l	BDL	BDL	BDL	BDL
42	43	Dissolved phosphate	mg/l	5	4	9	10
43	44	Chemical Oxygen Demand					

ANNEXURE NO. XI

Summary of proposed action point - Short term action point

Sl.No.	Action Points	Compliance Status
1.	Mirzapur is famous for brassware industries.About 50 non-ferrous metal utensils manufacturing tiny tot units are operating in the dense populated residential areas and as such they are causing air/noise pollution in the vicinity. The shifing is reqired of these units from residential area to Industrial Estate/suitable site.	The General Manager,District Industries Centre,Mirzapur has been asked to submit Time bound Action Plan for shifting of the units from residential/commercial area to Industrial Estate/suitable site upto Dec.,2011.

ANNEXURE NO. XII

Summary of proposed action point - Long term action point

Issues regarding the State Government of U.P. and Central Government

1. Construction of Varanasi-Via Chunar Mirzapur Highway and other link roads.
2. Development of Municipal solid Wastes sites to be done by local bodies .
3. Supply of LPG Gas to resident of Villages to avoid the Deforestation.
4. To ban the use of recycled plastic bags.
5. Safe Drinking Water Supply should be provided in the affected the villages of Teshil Chunar.
6. The electric supply is in very poor condition in chunar . The steps are required to strengthen the electric supply to the residence of Chunar area.
7. To install S.T.P. in Chunar & Ahraura City,.
8. Shifting of non-ferrous metal utensils manufacturing units from residential/commercial area to industrial state/suitable site to be performed by General Manager, District Industry Center within 5 years of time.

Issues regarding U.P. Pollution Control Board

1. Regular monitoring of surface water sources and Ground water.
2. To install automatic ambient air Quality monitoring stations at sensitive places.
3. Regular monitoring of Industrial E.T.P's. and APCS.