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GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE  
(CP Division)

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Jor bagh Road  
New Delhi-110003  
Dated: 3<sup>rd</sup> April, 2017

कार्यालय उपाध्यक्ष  
रोडिटर क्रमांक 26  
नज्ज प्रविश का विभाग  
25/04/2017

CTP आगत  
आगरा विकास प्राधिकरण

To  
The Chairman  
TTZ Authority  
Agra Division, Agra  
Uttar Pradesh-282002.

उपाध्यक्ष  
आगरा विकास प्राधिकरण

आगत  
16/4/2017

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गार निदेशक  
32  
4/17  
प्राधिकरण

Subject: Directions on issues related to Taj Trapezium Zone - regarding

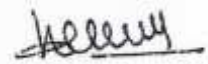
Sir,

This is in reference to the report submitted by the committee constituted by Ministry of Environment, Forest and Climate Change under the Chairmanship of Dr. Mancranjan Hota, MoEF&CC to assess the level of industrial pollution, ambient air quality and impact of pollution on Taj Mahal. The Ministry had examined the report on the basis of the recommendations of the committee and following decisions have been taken:

- i. The Taj Trapezium Zone (TTZ) Authority may develop an Action Plan addressing the issues raised in the abovementioned report (copy enclosed).
- ii. A Source Apportionment Study may be initiated in TTZ area covering Firozabad, Agra and other critical adjoining areas to be completed in one year.

Encl. As above.

Yours faithfully,

  
(Dr. H. Kharkwal)  
Joint Dir. / Sci 'D'

Copy to:

The Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.

Handwritten notes and signatures at the bottom left, including a signature and the text "T.P." and "28/04/17".

**Report of the  
Committee related to Assessment of Industrial  
Pollution and Environmental Issues in  
Taj Trapezium Zone**

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## Executive summary

Ministry of Environment, Forest and Climate Change constituted a Committee to assess the level of industrial pollution, ambient air quality and impact of pollution on Taj Mahal. The Committee had meeting on 13<sup>th</sup> December, 2016 in the Agra Development Authority Office with all relevant stakeholders in the Taj Trapezium Zone (TTZ) viz., Chairman, TTZ; Vice Chairman, Agra Development Authority; Urban Town Planning Department, Transport Department, UP PCB, other Members of TTZ Authority, Industry associations and NGOs. The list of participants is at Annexure-1. The Committee also had discussion with relevant stakeholders in Firozabad on 14<sup>th</sup> December 2016. The Committee visited Taj Mahal, Mathura refinery, foundries in Agra, and Glass industries in Firozabad during 13-14 December 2016. The Committee after taking into account the scientific data available to it has, prima facia, of the view that:

- i. Local or regional sources of pollution such as from vehicles, construction of roads and buildings, biomass & garbage burning, crematorium, etc., seem to be major contributors of pollution in respect of air quality at Taj Mahal, which need to be addressed. This requires further source apportionment studies and detailed emission inventory within 15 km radius of the Taj Mahal.
- ii. The emission from Mathura Refinery and glass industries in Firozabad seem to have less contribution on air quality at Taj Mahal due to their distance. However, they should continue their efforts in keeping their emission within the prescribed limits.
- iii. In order to prevent the impact of insects on Taj Mahal, illumination along the river side should be minimal possible, so as to ensure that insects are not attracted towards marble surface. Stagnation of river water and disposal of solid wastes and untreated waste water into the river causing water pollution should be avoided.
- iv. The existing system of vehicular movement near monuments should be strictly enforced and reviewed for further possible improvement based on source apportionment study.
- v. Source apportionment study of ambient air particulate matter (PM) of Agra, Firozabad and TTZ be carried out for chemical species which may indicate urban pollution. This may include chemical speciation of PM. Analysis of organic molecular markers, elemental and organic carbon, ions, secondary species, etc., may be carried out for source identification.
- vi. Satellite data on air pollution for TTZ area may be analysed at finer spatio-temporal resolution. This may help in determining the contribution of pollutants from upwind direction over time. Pollutants on upwind side from major urban

- centre like Delhi and Haryana may travel up to Agra. This may also help in setting the regional background levels of pollutants.
- vii. A continuous air quality monitor needs to be installed near Taj Mahal. The monitoring station of ASI may be converted to continuous air quality monitoring station.
  - viii. Keeping in view that Taj Mahal is the critical receptor of industrial pollution, a policy decision may be taken for permissible categories of industries as per guidelines of eco-sensitive zones (as being followed in other eco-sensitive zones). Keeping in view the balance between industrial growth and environmental protection, industries in the Green/White categorization seem to be further revisited that are relevant to TTZ.
  - ix. Revised standards for gas based glass industries may be developed and environmental guidelines for small scale glass manufacturing industries may be prepared.
  - x. MoEFCC had filed an affidavit on 9<sup>th</sup> January, 1996 that there will be no permission to new or expansion of industries in the TTZ area. Taking all the facts into consideration, the Hon'ble Supreme Court, in their judgment in 30<sup>th</sup> December, 1996 has directed that the industries are required to change over from coal to natural gas. It seems from the judgment that there is no direction regarding expansion of industries. Hon'ble High Court of Allahabad has held that intention of the Order of the Supreme Court, as it has observed, that a balance between industrial growth and ecology has to be struck, so that along with ecology, prosperity of the nation may not suffer. Therefore, an appropriate policy / direction may be issued on the issue of *ad hoc* moratorium imposed on new as well as expansion of industries in TTZ area.
  - xi. Industries that want to convert to natural gas, as directed by Hon'ble Supreme Court, be permitted to do so by TTZA with requisite environmental safeguards without referring such cases to MoEF&CC. Appropriate policy / direction may be issued with regard to operation of such industrial units that obtain gas connection from GAIL and NOC/consent from SPCB.

### Acknowledgement

The Committee thanks the Chairman, TTZ, Vice-Chairman, Agra Development Authority (ADA) for facilitating the meeting and inputs. The Committee also thanks the officials from Archeological Survey of India (ASI), District Industries Center (DIC) and Centre for the Development of Glass Industry (CDGI) at Firozabad for their inputs and assistance.

## The Report:

Ministry of Environment, Forest and Climate Change constituted a Committee, vide Office Order Q-16015 / 29 / 2016 - CPA dated 8<sup>th</sup> December 2016 (Annexure-1), to assess the level of industrial pollution, ambient air quality and impact of pollution on Taj Mahal. The Composition of the Committee is as follows:

- |   |   |                 |
|---|---|-----------------|
| 1. Dr. Manoranjan Hota, Advisor, MoEF&CC  | : | Chairman        |
| 2. Member Secretary, CPCB, Delhi          | : | Member-convener |
| 3. Member Secretary, UPPCB, Lucknow, U.P. | : | Member          |
| 4. Director, NEERI, Nagpur                | : | Member          |
| 5. DG/Representative, ASI, New Delhi      | : | Member          |

CPCB was represented by Mr. Nazimuddin Sc. E, CPCB (on behalf of Member Secretary-CPCB), NEERI was represented by Dr. K V George Sr. Scientist, NEERI (on behalf of Director-NEERI), ASI was represented by Mr. Janhwi Sharma, Jt. DG, and UP Pollution Control Board was represented by Dr. Ram Karan, R.O., UPPCB, Agra (on behalf of Member Secretary-UPPCB).

### 2. The Terms of References (ToR) of the Committee are as follows:

- i. To assess level of industrial pollution and suggest appropriate course of action based on scientific evidence.
- ii. To assess implementation of decisions taken in the meeting held on 8.9.2016 at MoEF&CC to review the status of environmental issues in Taj Trapezium Zone (TTZ)

3. The Committee had meeting on 13<sup>th</sup> December, 2016 in the Agra Development Authority with all relevant stakeholders in the TTZ viz., Chairman, TTZ; Vice Chairman, Agra Development Authority; Urban Town Planning Department, Transport Department, UP PCB, other Members of TTZ Authority, Industry associations and NGOs. The list of participants is at Annexure-2. The Committee also had discussions with relevant stakeholders in Firozabad on 14<sup>th</sup> December 2016 (Annexure-3).

4. The issues raised by participants during the interaction meeting is at Annexure-4. However, salient issues include the following:

- i. The industries associations submitted that industries are made soft targets for pollution emission. While the white category of industries have been permitted through the revised classification of industrial sectors in February, 2016, the stakeholders had equivocally demanded that green category of industries with appropriate environmental conditions may also be permitted to operate in the TTZ area. These may include hotel industries, footwear industries, cold storage etc..
- ii. According to the new Red/Orange/Green/White (R/O/G/W) categorization of industries by CPCB, Red category industries are not allowed in eco-sensitive areas, therefore imposition of ban on industries other than White category is not proper. Orange and Green categories do not have air pollution potential in TTZ area.

- iii. Agra is a prominent potato growing area and many cold storage are under construction, but cold storage falls under Green category of the new R/O/G/W categorization.
- iv. Leather footwear is a prominent industry of Agra and has a scope of development but it falls under Green category of the new R/O/G/W categorization.
- v. Agra is an important tourist city having three world heritage monuments and many new hotels are proposed but hotel up to 20 rooms fall under Green category, hotels of 20 to 100 rooms fall under Orange category, and hotels discharging more than 100 KLD effluent fall under Red category of the new R/O/G/W categorization. Hotels have negligible potential of increasing  $PM_{10}$ .
- vi. Construction project of more than 20000  $m^2$  fall under Orange category of the new R/O/G/W categorization.
- vii. Various other industries which are not air polluting fall under Orange and Green category of the new R/O/G/W categorization of industries by CPCB.
- viii. Industries which fall even under Red category of the new R/O/G/W categorization should be allowed if such industries do not have air pollution potential, such as airport & commercial strips, hotel of more than 100 KLD effluent discharge, healthcare establishments.
- ix. Industries in TTZ are not allowed to use coal and all industries are operating on natural gas. New coal based industries are not allowed in TTZ.
- x. Air quality data of past year shows that  $PM_{10}$  has not increased near industries.  $PM_{10}$  has increased near Taj Mahal due to construction activities.
- xi. Ban on cold storage, footwear units and hotels will lead to unemployment in Agra.
- xii. There are other sources of emission such as road dust, dust from the national highway construction, vehicular pollution, garbage burning, dumping of municipal solid waste, etc other than contribution of  $NO_2$ ,  $SO_2$ , and Particulate Matter (PM) from industrial sources.
- xiii. Industries have changed their fuel from coal to natural gas and the emissions from their units are within prescribed norms. Therefore, they be permitted to operate with appropriate environmental conditions in order to get natural justice.
- xiv. Hon'ble Supreme Court, in its judgment of 30.12.1996 had directed that the industries are required to change over from coal to natural gas and had not directed against expansion of industries. Hon'ble High Court of Allahabad has also held similar view. It was also submitted that 3 lakh people have become unemployed due to non-permission of 43 industries to operate due to the decision of TTZ on 15<sup>th</sup> November, 2016.
- xv. It was suggested that MoEF&CC should issue clear guidelines for TTZ Authority and ad hoc decisions should be refrained from.



- xvi. While Taj Mahal is the critical receptor of industrial pollution, the industries association also demanded that other source(s) of pollution need to be identified and addressed. The industries associations also mentioned that only the red category of industries are not allowed in Eco-sensitive Zone. Whereas, the TTZ has not even declared as Eco-sensitive Zone but still all categories of industries are banned to operate since January, 2015. Therefore, they suggested that other categories of industries be permitted to operate in the TTZ area.
- xvii. All industries in TTZ are directed under the Supreme Court Order not to use coal/coke and to operate only by natural gas. New gas based industries falling under are permitted categories as per the document of CPCB (1981-82) for TTZ. The TTZA, in its meeting held on 8<sup>th</sup> September 2016, had imposed adhoc moratorium on expansion and setting up of new industry (except white category) to control air pollution. The new Red/Orange/Green/White categorization do not seem to be relevant in TTZ. This decision has impacted growth of traditional industries so also the economic development in Agra such as hotels, cold storage, leather footwear units etc.
- xviii. In view of complaints on expansion in glass industries in Firozabad, TTZ Authority had decided in its meeting held on 7<sup>th</sup> January, 2015 that establishment of new units and capacity expansion in existing units be stopped with immediate effect. 43 industrial units in Firozabad have not been given permission/clearance to operate.
5. The Archaeological Survey of India mentioned that it has taken several steps including mud padding to clean the marble on the monument so as to ensure to comply with the UNESCO guidelines. It has further mentioned that besides air pollution, the impact of insects are major seasonal impact particularly during summer time when there is hardly any water in the Yamuna. The green and black patches appeared on the white marble surface of pedestal wall at northern side, particularly on the edges, corners and floral panels on the arches of northern side of main mausoleum. These are effected by insects in the form of swarms emerge from river side and move towards Taj Mahal. It is observed that in the evening, these insects attracts towards light of any type (bulbs/LED/tube lights or CFL) and even the brightness of marble but remain inactive in day light (sunlight). These insects and their larvae also feed on the content of phosphorus. The presence of phosphorus content in the sample analysis confirms with the test results of excrete (Report received from ASI, Dehradun laboratory). The high development and growth of algae, is results of polluted and stagnated water at both side of river Yamuna. While in the rainy season, when the water level gets high with maximum flow, then the environment does not favour the growth and development of larvae of these insects, therefore, insect activity not observed. Some remedial measures have been tested on trial basis to reduce insect activity on marble surface.
- 6. Site visits:**
- 6.1 The Committee visited Taj Mahal, Mathura refinery, foundries in Agra, and Glass industries in Firozabad during 13-14 December 2016. The Committee was assisted by the Regional Officers of Agra and Firozabad Regional Offices of the UPPCB, Mr. R.K. Pathak from District Industries Center (DIC). The Committee also interacted with Mr R.M. Sharma of Centre for the Development of Glass Industry (CDGI) at Firozabad.

6.2 The main industrial locations in TTZ area that may affect Taj Mahal viz. Mathura Refinery, located at about 42 km aerial distance towards West of Taj Mahal, Glass manufacturing industries in Firozabad, located at about 35 km aerial distance towards East of Taj Mahal, and industries in Agra, mostly foundries, located at about 5 km aerial distance towards North of Taj Mahal.

6.3 The status of industrial units in Agra, Mathura and Firozabad, as provided by UPPCB, is annexed at Annexures-5. Glass industries in Firozabad and foundry industries in Agra have converted the supply of fuel from coal and coke, to gas, mostly natural gas. Few industrial units are using LPG. The information on quantity of natural gas consumption in glass industries in Agra and industries in Firozabad, as provided by GAIL, are annexed at Annexure-6 and Annexure-7.

6.4 **Visit to Mathura refinery:** The emission load from Mathura refinery was estimated by NEERI based on emission sources inventory. The emission load from glass industries in Firozabad was estimated by NEERI earlier based on production (drawing) capacity and emission factors. The current emission monitoring results from stacks of Mathura refinery was provided by Mathura Refinery during the visit, is annexed at Annexure-8. The estimation of SO<sub>2</sub> and NO<sub>x</sub> emission load from Mathura refinery was taken from the EIA Report of NEERI, which is as follows:

**Estimated emission load from Mathura refinery**

Emission flow rate		SO <sub>2</sub> (g/s)		NO <sub>x</sub> (g/s)	
m <sup>3</sup> /s	m <sup>3</sup> /hr	(g/s)	(kg/hr)	(g/s)	(kg/hr)
642.66	23,13,593	125	450	38.5	138.6

6.5 **Visits to Foundries in Agra:** There are 152 industries, mostly foundries, in Agra which are based on natural gas. As natural gas consumption in glass industries in Agra is 1/12<sup>th</sup> of natural gas consumption in industries in Firozabad, the emission load from industries in Agra is lesser in that order as compared to that from Firozabad industries.

**Total natural gas consumption in industries in Agra**

Natural gas consumption in industries in Agra		
m <sup>3</sup> /day	m <sup>3</sup> /hr	m <sup>3</sup> /s
145048	6043.67	1.679

6.6 **Visit to Firozabad:** The Committee visited large, medium and small-scale glass making industries e.g. glass units with tank furnaces producing glass bottles/containers, small units such as Pakai Bhatti using annealing furnace, glass decorating units in Firozabad. The Committee also had discussion with relevant stakeholders.

The representatives from glass industries submitted that no norms have been prescribed such as do's and do not's for glass industries. Due to ad hoc decisions and closure of industries, unemployment has become serious issue in Firozabad. Since all industries in

Firozabad have adopted the use of natural gas as per Supreme Court Order, all industries in the area be permitted to operate. They further stressed that 43 industries which are ready to operate with NOC from the State Pollution Control Board are still awaiting final decision from TTZ Authority. They also mentioned that the NEERI report has brought out that the concentration of NO<sub>x</sub> were below 30 ug/m<sup>3</sup> at the boundary of Firozabad town. The members of the industries also submitted that since they have already adopted the clean fuel, they be permitted to adopt modern technology in order to further reduction in pollution and to maximise their production for competition with other countries.

Glass manufacturing process involved high temperature, energy intensive process. Glass manufacturers employ two type of furnaces i.e. pot furnace and continuous tank furnace. Environmental issues in glass manufacturing primarily include emissions to air, with energy-intensive activity, resulting in the emission of combustion by-products (sulfur dioxide, carbon dioxide, and nitrogen oxides) and the high-temperature oxidation of atmospheric nitrogen. Furnace emission also contain particulate matter (PM<sub>10</sub>) and may contain low levels of metals. Melting furnaces contribute between 80 and 90 percent of the total pollutant emissions to air from a glass production facility.

The Regional Office of U.P. State Pollution Control Board had submitted the status of list of 43 industries which have either given NOC or are awaiting gas connection from GAIL (Annexure-9).

#### Total natural gas consumption in glass industries in Firozabad

Natural gas consumption in glass industries in Firozabad		
m <sup>3</sup> /day	m <sup>3</sup> /hr	m <sup>3</sup> /s
1762645	73443.54	20.401

Note: About 9, 55, 000 Nm<sup>3</sup>/hr emission flow rate is expected from glass industries in Firozabad

#### Estimated emission load from glass industries in Firozabad as per NEERI Report (April 2016)

SO <sub>2</sub> (g/s)		NO <sub>x</sub> (g/s)		PM (g/s)	
(g/s)	(kg/hr)	(g/s)	(kg/hr)	(g/s)	(kg/hr)
57.17	205.82	85.47	307.68	19.25	69.31

As may be seen from the above Table, the emission of SO<sub>2</sub> was estimated to be 205.82 Kg/hr whereas the NO<sub>x</sub> emission was estimated to be 307.68 Kg/hr and the Particulate Matter emission was at 69.31 Kg/hr.

#### 7. Impact of elevated emissions of TTZ on Taj Mahal using Source Dispersion Modeling

7.1 The Committee collected/collated scientific data from various sources and the submissions during the meetings with stakeholders during its visit. The Committee attempted to make a synthesis of the available scientific evidences, which is as follows:

7.2 In order to quantify the impact on Taj Mahal due to emission from elevated stack top by its transport and dispersion towards Agra, Gaussian model based source dispersion model is used. CALPUFF is the latest state-of-the-art Gaussian analytic steady-state source dispersion model. Taj Trapezium Zone (TTZ) places Agra city approximately at centre and is prepared in such a way that it covers sensitive receptors like Taj Mahal and other monuments in Agra and Bird Sanctuary at Bharatpur. It also includes major industrial activity of Mathura Refinery and Glass Industry of Firozabad. Fig. 1 shows the Taj Trapezium Zone along with the coordinates of its corners. For the purpose of simulation of elevated emission from ducted sources, a rectangular area is considered, which include most part of TTZ. Fig. 2 shows the relative location of these centres with approximate distances.

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<sup>1</sup>USEPA has recommended Industrial Source Complex (ISC) model and was recommended by MoEF and CPCB, New Delhi in 1990s. ISC model is a Gaussian dispersion model, which uses uniform wind vector i.e. for the entire study domain, a single meteorological data is used, which governs the advection and dispersion of pollutant. The dispersion of plume is determined by the Pasquill-Gifford-Turner (PGT) classification, which is a step function of stability class. In this model, the atmosphere of a day is categorised in different stability classes (A to F). As soon as the atmospheric stability class changes the dispersion coefficients ( $\sigma_y$ ,  $\sigma_z$ ) changes in steps. By the end of 1999 an upgraded version of Gaussian Dispersion Model named AERMOD (American Meteorological Society Environmental Protection Agency Regulatory MODel) was recommended by USEPA as a substitute of ISC Model. The upgraded model (AERMOD) replaced the estimation of dispersion coefficient from PGT classification to turbulence measure, which is a continuous function. This requires measurement and estimation of several meteorological parameters for turbulence quantification that can be used for estimating dispersion coefficients. The limitation of AERMOD remained uniform wind vector, which does not consider the wind direction variation over large study domain. This was overcome by developing another model named CALPUFF (CALifornia PUFF) Model, which is a Gaussian Puff model. The study domain can be sub-gridded into smaller size cells, each having its own meteorological data. As soon as the plume leaves one cell and enters another cell, it gets relieved from plume and now it acts as an independent puff in the new cell. The meteorological parameters of new cell advects and disperses the puff contained in its cell.

Corner	Latitude	Longitude
NW	27° 45.0'N	77° 15.0'E
NE	27° 30.0'N	78° 30.0'E
SE	27° 0.0'N	78° 30.0'E
SW	26° 45.0'N	77° 15.0'E

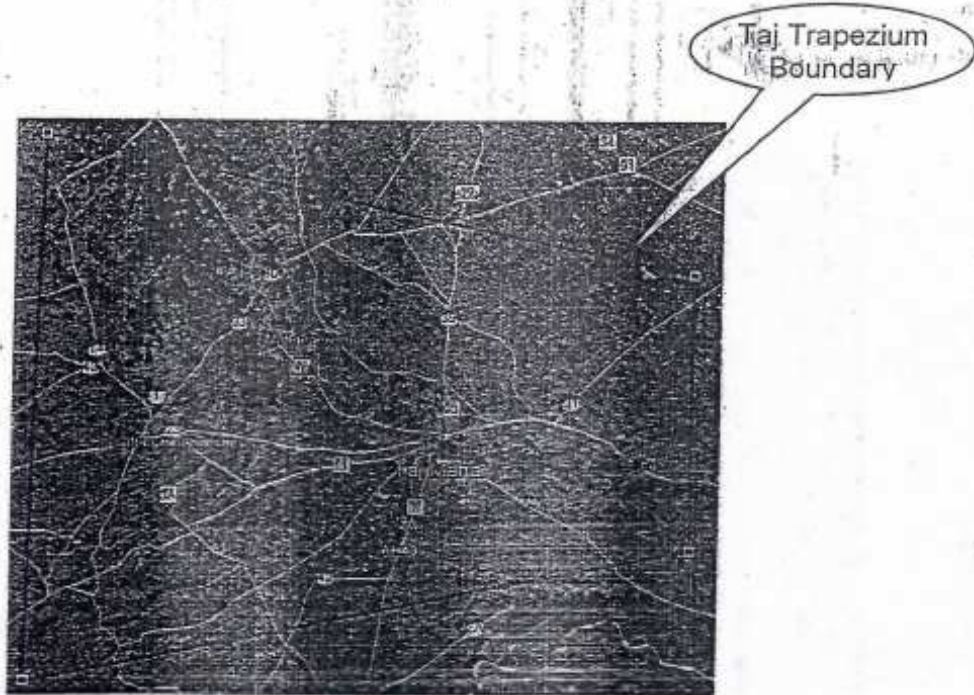


Fig. 1: Taj Trapezium Zone.

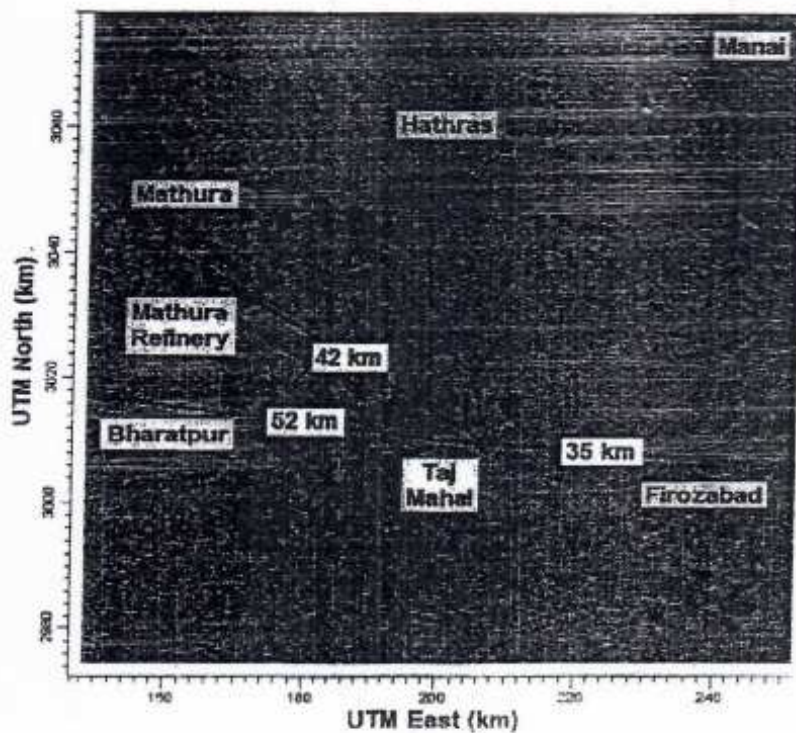


Fig. 2: Major centres and its distance from Taj Mahal in ITZ.

7.3 For the purpose of mathematical simulation of wind profile in TTZ, an area of 100 km x 100 km is chosen, which includes the sensitive receptors and industrial towns of TTZ. Fig. 3 shows the meteorological grid domain and Taj Trapezium boundary. A sub grid of 4 km x 4 km size is constructed requiring 25 grid cells in each direction to cover 100 km distance. Total 625 meteorological grid cells are formed and for each grid, the meteorological data is generated using prognostic model for further use in CALPUFF model.

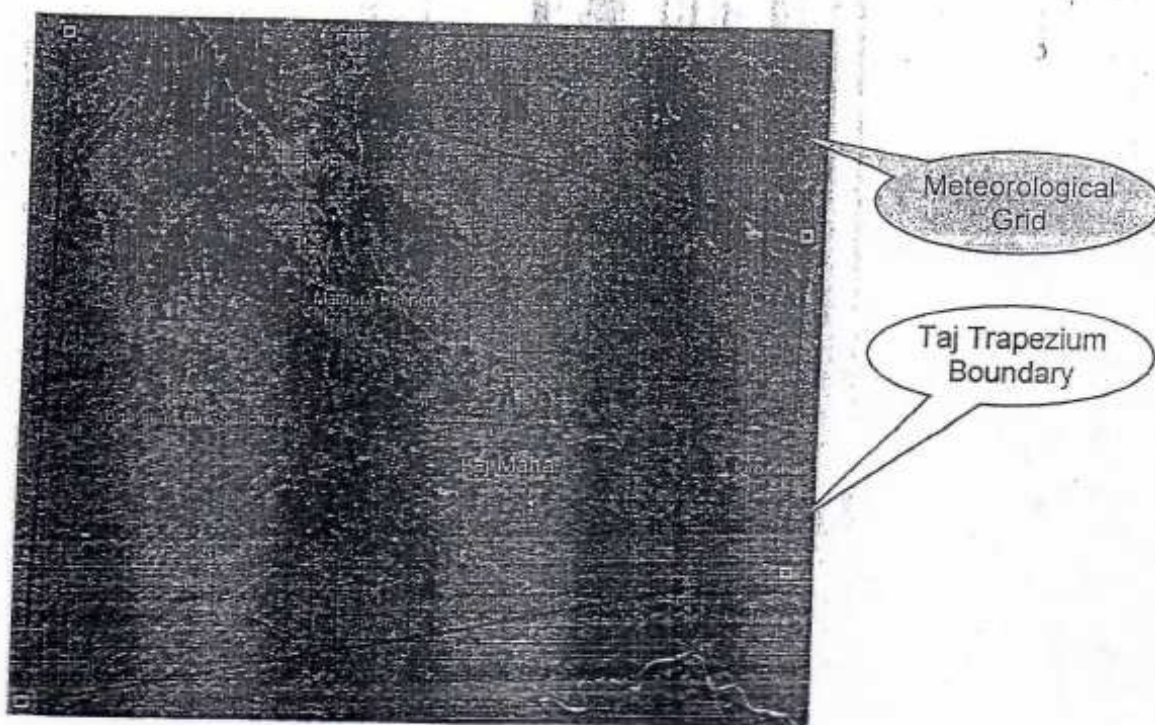


Fig. 3: Taj Trapezium and Meteorological domain.

7.4 Meteorological data was generated for one year duration using Weather Research Forecast (WRF) model<sup>2</sup>. The data was processed in CALMET (meteorological pre-processor) so as to generate wind profile for further use in CALPUFF model. The meteorological pre-processor (CALMET) generates data at hourly interval for all 625 grid cells (4 km x 4 km) for complete one year duration. In this study the data for 2014 is processed. It is assumed that the meteorological data of one year repeats every year more or less in a similar way unless there is an episodic year, when there is significant change in climate. In CALPUFF meteorological domain, the wind direction changes its course from cell to cell, which makes it more realistic compared to previous dispersion models like ISC and AERMOD, where only a single wind vector is used for simulation.

### 7.5 Pollutant Dispersion Simulation

Source apportionment study of Firozabad (NEERI, 2016)<sup>3</sup> included source dispersion modelling to realize the impact of elevated emission from Firozabad Glass industries to Taj Mahal. Major criteria pollutants are Particulate Matter (PM), SO<sub>2</sub> and NO<sub>x</sub>, which are expected to be released from the elevated stacks of glass industry and refinery. In order to

<sup>2</sup> Air Quality Assessment and Source Apportionment Study in Firozabad, April 2016.

<sup>3</sup> Air Quality Assessment and Source Apportionment Study in Firozabad, April 2016.

reduce the computer simulation time, the emission from Mathura Refinery and Firozabad Glass industry are treated separately. The receptors grid was prepared in such a way that in both the cases, Taj Mahal falls within the receptor grid. Major emission from Mathura Refinery is  $\text{SO}_2$  and therefore simulation of  $\text{SO}_2$  from Mathura refinery was carried out. Similarly from Glass industries, Nox is the major emission, the dispersion of which was simulated.

#### 7.6 Emission from Firozabad Glass Industries:

The Glass manufacturing process involves melting of raw material, recycled glass etc. in a furnace followed by moulding of molten glass into different shapes. The exhaust gases of initial raw material melting process is mainly connected through tall stacks of 30 to 40 m height. The off gases of subsequent processes which are not carried out in an enclosed chamber are not vented through tall ducted point. The emission from glass industry cannot be linearly related to the consumption of Natural Gas. Small industries using natural gas for baking or finishing of glass products may not be venting off gases through tall stack and therefore their emission cannot be estimated and used in dispersion model simulation exercise. Glass industries use Natural Gas at different temperature thereby emitting Nox of different concentration. Different glass products like bottles, containers, bangles etc. needs different temperature profile thereby changing the Nox emission rate.

Source apportionment study of Firozabad (NEERI, 2016) included source dispersion modelling to realize the impact of elevated emission from Firozabad Glass industries to Taj Mahal. During the study, NEERI team had located the stacks of Firozabad Glass industries using GPS by standing near the industry boundary wall. In its simulation exercise, the receptor grid size was limited around the periphery of Firozabad city where the  $\text{NO}_2$  concentration drops down to  $30 \text{ ug/m}^3$ , which is the regulatory limit for sensitive area.

In order to quantify the impact of  $\text{NO}_2$  on Taj Mahal, the receptor grid was extended upto Taj Mahal. It was found that the highest concentration of 5 to  $6 \text{ ug/m}^3$  of  $\text{NO}_2$  will occur only once on any 'one day' in a year (daily average) over Taj Mahal. Similarly the simulation was carried out for 'one year' (annual average) 'averaging period'. It is found that average Nox concentration of 0.3 to  $0.5 \text{ ug/m}^3$  would occur over Taj Mahal for one year due to emission from Firozabad Glass industries.

Using the same modelling framework as mentioned in the preceding paragraph, dispersion modelling simulation was carried out considering only Taj Mahal as a receptor. The height of this receptor is taken as 25 m above ground level. This height is considered with a view that the main tomb of Taj Mahal has an approximate height of 25 m above ground level. The highest 50 daily average Nox concentration was determined and plotted (Fig. 4) in decreasing order which infers that the contribution of Nox from Glass industries of Firozabad is below  $6 \text{ ug/m}^3$  for most of the time. These values are not on consecutive days; instead, they were spread over one year in 2014.

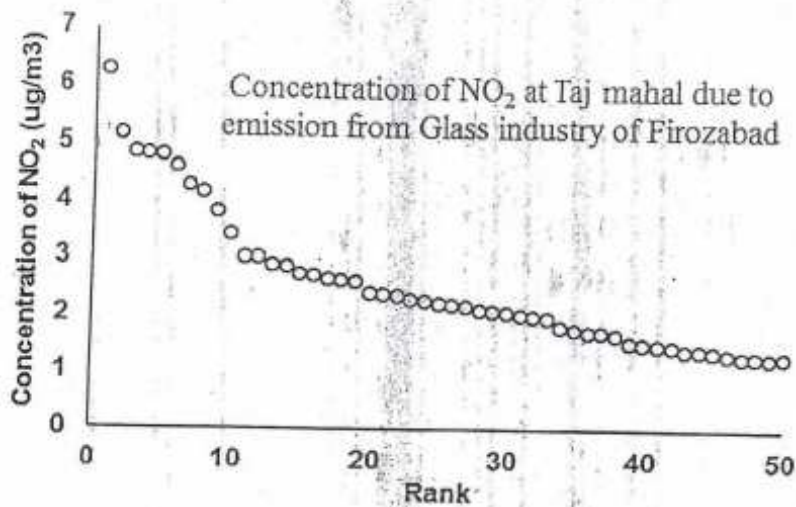


Fig. 4: Highest 50 predicted concentration values of Daily average NO<sub>2</sub> at Taj Mahal due to emission from Firozabad Glass Industries.

#### 7.7 Emission from Mathura Refinery:

There are 27 stacks in Mathura Refinery. Stack emission inventory details of Mathura refinery was obtained from comprehensive EIA report (NEERI, 2002)<sup>4</sup>. Table 1 & 2 show the emission data used in simulation. In order to quantify the impact of SO<sub>2</sub> on Taj Mahal, the receptor grid extending beyond 45 km from Mathura Refinery was prepared and daily average and annual average concentration of SO<sub>2</sub> at Taj Mahal determined. It is found that the highest SO<sub>2</sub> concentration of 2.5 to 5 ug/m<sup>3</sup> will occur only on 'one day' in a year (daily average) over Taj Mahal due to emission from Mathura Refinery. Similarly the simulation was carried out for 'one year (annual average) averaging period'. It is found that average SO<sub>2</sub> concentration of 0.2 to 0.5 ug/m<sup>3</sup> would occur over Taj Mahal for one year due to emission from Mathura Refinery.

<sup>4</sup> Comprehensive Environmental Impact Assessment of Proposed Facilities at Mathura Refinery, March, 2002.



Table 1: Emission from Mathura Refinery<sup>5</sup>

No.	Stack	Stack Ht (m)	Stack Dia. (m)	Gas Velocity (m/s)	Gas Temp. (°C)	Flue Gas Flow (m <sup>3</sup> /h)	SO <sub>2</sub> Emission (Kg/h)	Nox Emission (Kg/h)
1.	CDU	80.0	6.50	2.85	180	339750	51.0	48.0
2.	VDU	60.0	2.50	6.62	180	116984	14.0	13.0
3.	VBU-I	60.0	2.10	2.58	230	32128	7.5	6.0
4.	VBU-II	60.0	2.10	2.58	230	32128	7.5	6.0
5.	FCC-CH	60.0	1.75	7.42	230	64257	8.0	7.0
6.	FCC-COB	80.0	2.00	15.62	285	176598	110.0	14.0
7.	BBU	40.0	2.36	1.30	260	20500	3.0	1.0
8.	CRU-I	67.0	2.15	5.46	215	71290	5.0	2.0
9.	CRU-II	65.8	2.23	3.15	165	44311	3.0	1.0
10.	DHDS	44.0	1.52	3.08	185	20132	10.0	4.0
11.	HGU	60.0	3.30	9.10	170	279918	5.0	0.1
12.	OHCU-I	41.0	1.47	0.87	245	5319	1.5	0.4
13.	OHCU-II	41.1	2.10	1.07	235	13392	3.5	2.0
14.	SRU	62.0	0.80	9.35	270	16907	53.5	-
15.	Block	62.0	0.80	9.35	270	16907	53.5	-
16.	TPS Boilers	116.0	4.00	3.72	110	168352	16.0	19.0
17.	GT-I	60.0	3.50	3.74	120	129560	4.0	0.3
18.	GT-II	60.0	3.50	3.74	120	129560	4.0	0.3
19.	Flare	60.0	4.00	20.00	1000	-	20.0	-
<b>Total</b>							<b>380.0</b>	<b>124.1</b>

**Basis**

1. Crude T'PUT 8 MMTPA
2. Sulphur Content of Fuel Oil = 0.3% Wt.
3. Sulphur Content of Fuel Gas = 500 ppmv
4. Sulphur Content of Natural Gas = 10 ppmv
5. Sulphur Content of Naphtha = 100 ppm
6. Sulphur Recovery Unit (SRU) Efficiency= 99%
7. Calorific Value of Natural Gas Assumed Equal to Fuel Oil
8. Use of 25% Fuel Oil in Furnaces and Boilers for Safety Reasons and Balance Natural Gas.

**Note:** The above emission has been worked considering various contingencies of operations such as interruption/ restriction in natural gas supply, operation of hydrocracker unit etc.

**Abbreviations:**

CDU-Crude Distillation Unit	VDU -	Vaccum Distillation Unit
VBU-Vis-Breaking Unit	FCC -	Fluidised Catalytic Cracking Unit
BBU-Bitumen Blowing Unit	CRU -	Ctalytic Reforming Unit
DHDS-Diesel Hydro-desulphurisation Unit	HGU -	Hydrogen Generation Unit
OHCU-Once-Through Hydrocracking Unit	SRU -	Sulphur Recovery Unit
TPS-Thermal Power Station	GT -	Gas Turbine

**Table 2: Stack Details and SO<sub>2</sub> Emissions at Mathura Refinery after Proposed Facilities**

No.	Stack	Stack Height (m)	Stack Dia. (m)	Gas Velocity (m/s)	Gas Temp (°C)	Flue Gas Flow (m <sup>3</sup> /h)	SO <sub>2</sub> Emission (Kg/h)	Nox Emission (Kg/h)
1.	CDU	80.0	6.50	2.85	180	339750	51.0	48.0
2.	VDU	60.0	2.50	6.62	180	116984	14.0	13.0
3.	VBU-I	60.0	2.10	2.58	230	32128	7.5	6.0
4.	VBU-II	60.0	2.10	2.58	230	32128	7.5	6.0
5.	FCC-CH	60.0	1.75	7.42	230	64257	8.0	7.0
6.	FCC-COB	80.0	2.00	15.62	285	176598	110.0	14.0
7.	BBU	40.0	2.36	1.30	260	20500	3.0	1.0
8.	CRU-I	67.0	2.15	5.46	215	71290	5.0	2.0
9.	CRU-II	65.8	2.23	3.15	165	44311	3.0	1.0
10.	DHDS	44.0	1.52	3.08	185	20132	10.0	4.0
11.	HGU	60.0	3.30	9.10	170	279918	3.0	0.1
12.	OHCU-I	41.0	1.47	0.87	245	5319	1.5	0.4
13.	OHCU-II	41.1	2.10	1.07	235	13392	3.5	1.0
14.	MSQU	60.0	2.23	1.06	235	14886	10.0	4.0
15.	NEW HGU	60.0	3.30	14.63	170	450302	8.0	0.2
16.	DHDT	60.0	1.52	7.32	185	47813	16.0	6.0
17.	SRU	62.0	0.80	4.95	270	8951	41.0	-
18.	Block &	62.0	0.80	4.95	270	8951	41.0	-
19.	TGTU	62.0	0.80	4.95	270	8951	40.0	-
20.	TPS Boilers	116.0	4.00	4.19	110	168352	33.0	24.0
21.	GT-I	60.0	3.50	3.74	120	129560	4.0	0.3
22.	GT-II	60.0	3.50	3.74	120	129560	4.0	0.3
23.	GT-III	60.0	3.50	3.74	120	129560	4.0	0.3
24.	Flare	60.0	4.00	20.00	1000	-	20.0	-
<b>Total</b>							<b>450.0</b>	<b>138.6</b>

**Note :** The above emission has been worked considering various contingencies of operations such as interruption/restriction in natural gas supply, operation of hydrocracker unit, TGTU shutdown etc.

**Abbreviations :**

CDU-Crude Distillation Unit	VDU - Vaccum Distillation Unit
VBU-Vis-Breaking Unit	FCC - Fluidised Catalytic Cracking Unit
BBU-Bitumen Blowing Unit	CRU - Ctalytic Reforming Unit
DHDS-Diesel Hydrodesulphurisation Unit	HGU - Hydrogen Generation Unit
OHCU-Once-Through Hydrocracking Unit	MSQU- MS Quality Upgradation
DHDT-Diesel Hydrotreatment Unit	SRU - Sulphur Recovery Unit
TGTU-Tail Gas Treatment Unit	TPS - Thermal Power Station
GT-Gas Turbine	

Considering Taj Mahal as receptor at 25 m height above ground level, the highest 50 daily average SO<sub>2</sub> concentration is determined and plotted. Fig. 5 shows the highest 50 daily average concentration of SO<sub>2</sub> over Taj Mahal in decreasing order due to emission from Mathura Refinery. These highest values are less than 3 ug/m<sup>3</sup> and are not on consecutive days instead spread over one year in 2015.

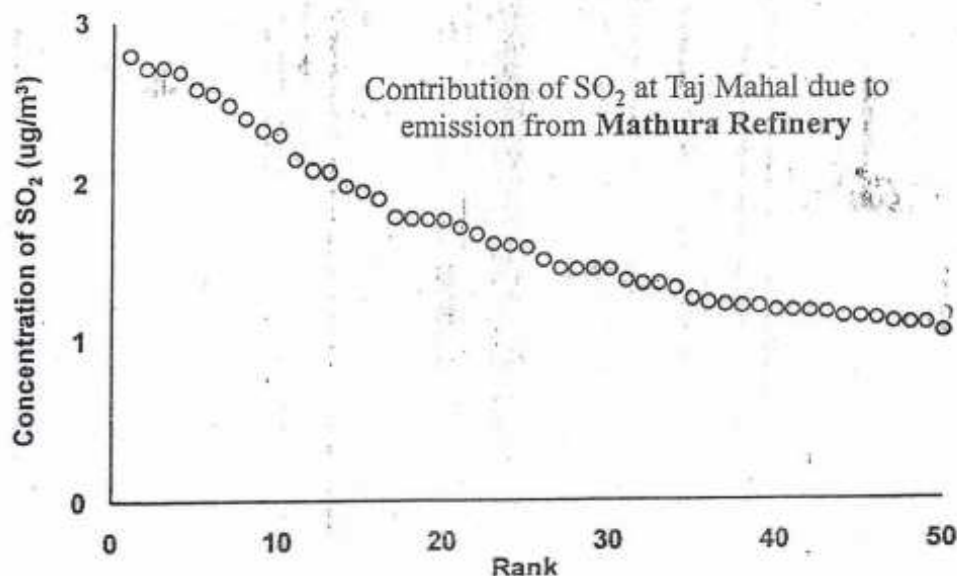


Fig. 5: Highest 50 predicted concentration values of SO<sub>2</sub> at Taj Mahal due to emission from Mathura Refinery.

### 7.8 Comparison of measured air pollutant concentration over Taj Mahal with estimates from Dispersion Modeling results.

Concentration of SO<sub>2</sub> and NO<sub>2</sub> on Taj Mahal were monitored using Differential Optical Absorption Spectrophotometry (DOAS) for January to June 2013 by NEERI, Nagpur (NEERI/ASI, 2015)<sup>6</sup>. DOAS consist of an emitter (placed on the Yamuna river bank) releasing white light and a receiver (placed on Burj No. 4 on North-West side), which receives the attenuated white light due to absorption of respective wave bands by different pollutants. The amount of light absorbed is proportional to the concentration of pollutants. The daily average concentration of SO<sub>2</sub> and NO<sub>2</sub> were compared with the predicted SO<sub>2</sub> and NO<sub>2</sub> concentration due to emission from Mathura Refinery and Firozabad Glass industries respectively.

Fig. 6 shows the NO<sub>2</sub> concentration observed at Taj Mahal for six months duration arranged in descending order and the predicted highest 50 daily NO<sub>2</sub> concentration due to emission from Firozabad Glass industries. It is clearly visible that there is significant contribution of NO<sub>2</sub> from other unknown sources which may be studied using detailed emission inventory for implementing control measure. The likely major source of NO<sub>2</sub> is thermal source around the Taj Mahal like vehicular emission and small scale industries using high temperature

<sup>6</sup>Tourism Impact and carrying capacity studies for environmental protection of world heritage site, Taj Mahal, Agra, sponsored by ASI, 2015

operation arising out of Natural gas combustion. The six monthly average Nox concentrations (DOAS observation) is  $29.6 \mu\text{g}/\text{m}^3$ , which is very close to the annual regulatory limit value of  $30 \mu\text{g}/\text{m}^3$  for sensitive receptors.

Fig. 7 shows the observed  $\text{SO}_2$  concentration at Taj Mahal for six month duration in 2015 arranged in descending order and the predicted highest 50 daily  $\text{SO}_2$  concentrations on different days due to emission from Mathura Refinery, which infers that the major contribution of  $\text{SO}_2$  are from other local (unknown) sources. Comparison of Fig. 6 & 7 indicate that  $\text{NO}_2$  values are relatively high compared to  $\text{SO}_2$  values indicating that restriction on use of coal has resulted in reduction of  $\text{SO}_2$  emission. However, the annual average (six monthly average in this case) value of  $\text{SO}_2$  is  $13.1 \mu\text{g}/\text{m}^3$ , which is less than the regulatory limit value of  $20 \mu\text{g}/\text{m}^3$  for sensitive receptors.

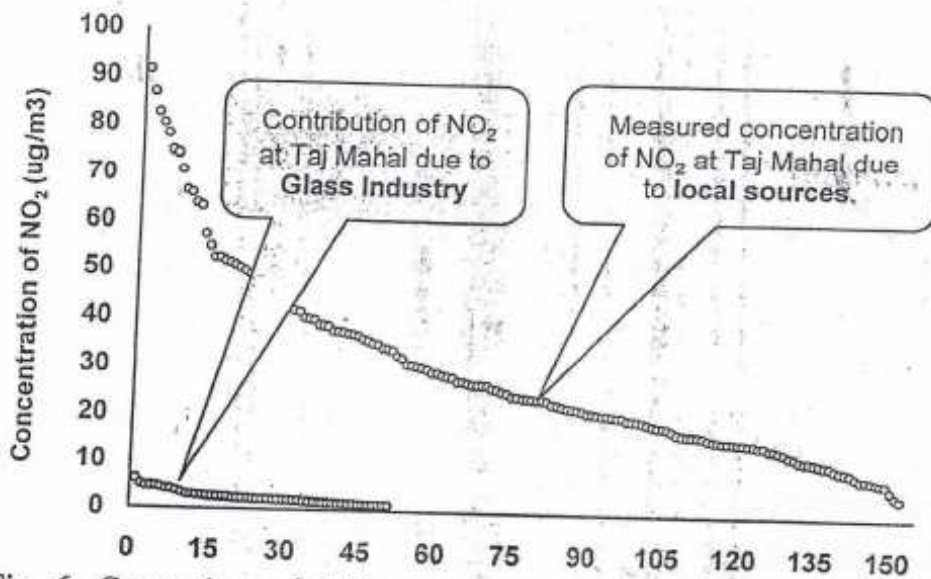


Fig. 6: Comparison of highest measured NO<sub>2</sub> concentration with highest predicted NO<sub>2</sub> values at Taj Mahal due to emission from Glass Industry.

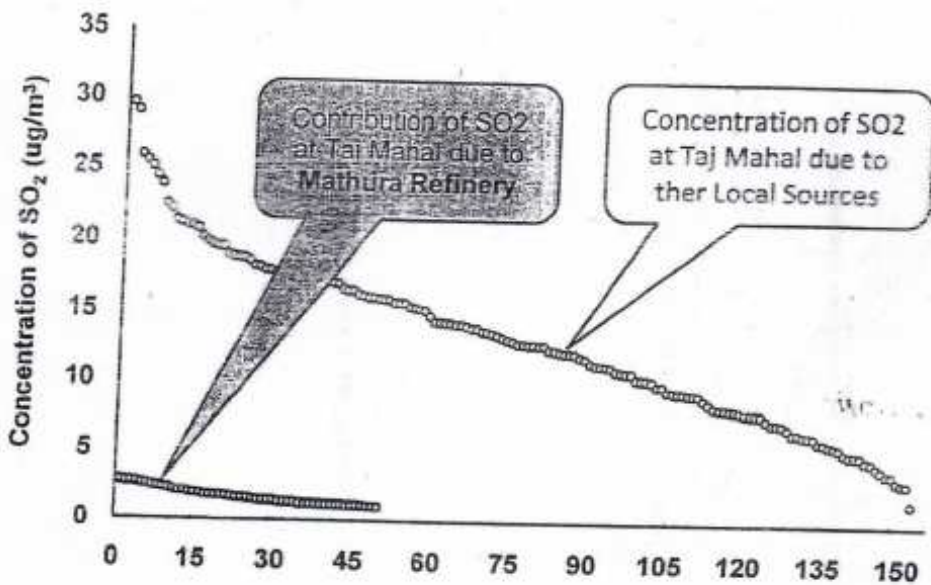


Fig. 7: Comparison of highest measured SO<sub>2</sub> concentration with highest predicted SO<sub>2</sub> values at Taj Mahal due to emission from Mathura Refinery.

**7.9 Comparison of Model Predicted values with CPCB measured values on Taj Mahal:**

In compliance to the directions of Hon'ble Supreme Court of India (with reference to the WC 13381/1984, M. C Mehta Vs. Union of India and others), CPCB has established 04 air quality monitoring stations in 2002 at Taj Mahal, Etmad-ud-daulah, Ranubagh & Nunhai, primarily to monitor ambient air quality in Agra city so as to generate reliable data for

preparing Action Plan for prevention and control of pollution in Agra. Monitoring are being continued at Taj Mahal round-the-clock except on Friday & Holidays and at three locations viz., Etmad-ud-daulah, Rambagh & Nunhai as per NAMP norms. The monitoring station of CPCB is near at West Gate, which is a manual monitoring station. The data collected is once per day. On the other hand, continuous monitoring Station of NEERI (using DOAS) was installed on North side of Taj Mahal near Burj No. 4 and was monitoring hourly data from January to June 2013.

The air quality data are regularly uploaded to CPCB web site and Environmental Data Bank (EDB) for dissemination of information to public and other stake holders. The generated AAQM data are regularly provided to local administration towards linking of developmental activities with air quality objectives and also for preparation of action plan for air quality improvement.

The CPCB Monitored annual average value of  $\text{NO}_2$  and  $\text{SO}_2$  were compared with the CALPUFF model predicted annual average value of  $\text{SO}_2$  and  $\text{NO}_2$ . Fig. 8 & 9 reflect the comparison of CPCB monitored and Model predicted annual average value of  $\text{SO}_2$  and  $\text{NO}_2$  which infers that the contribution of Mathura Refinery and industries in Firozabad have less contribution to the Taj Mahal. There are other sources of contributions which may be local or regional. This requires further source apportionment studies and detailed emission inventory within 15 km radius of the Taj Mahal.

SO<sub>2</sub>

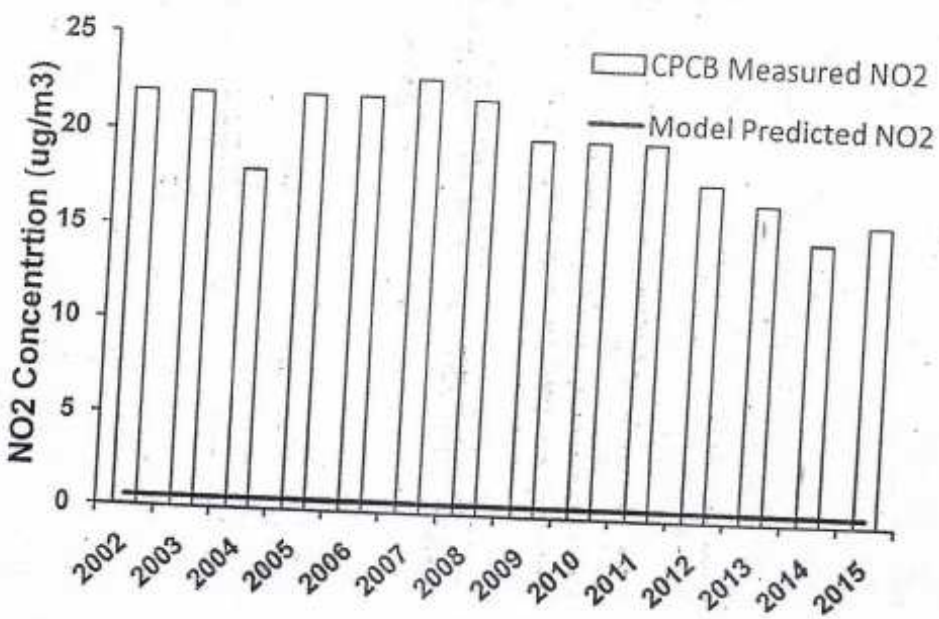


Fig. 8: Comparison of CPCB measured annual average NO<sub>2</sub> concentration with model predicted annual average NO<sub>2</sub> values at Taj Mahal due to emission from Glass Industries.

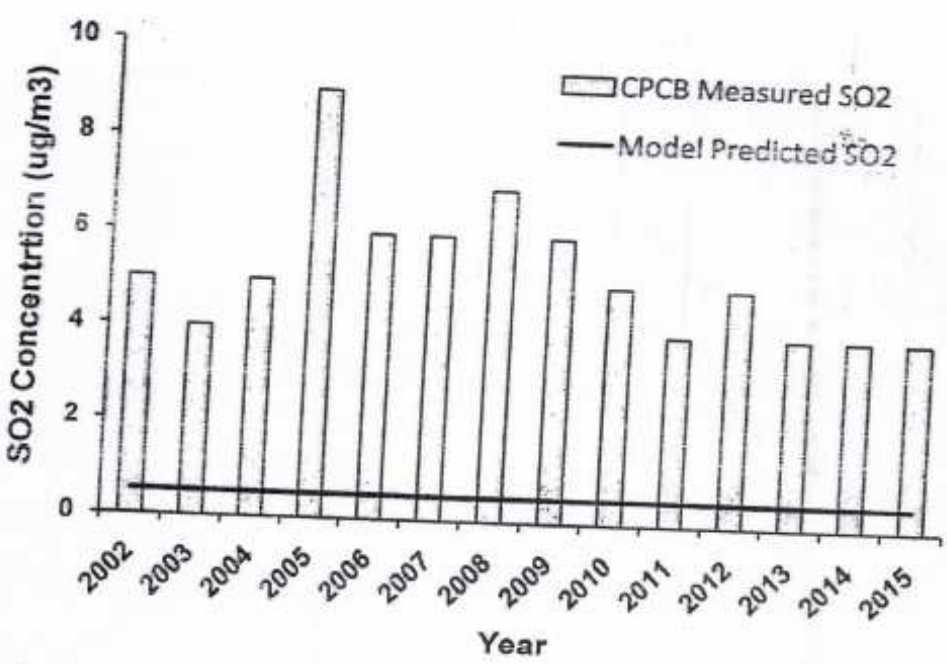


Fig. 9: Comparison of CPCB measured annual average SO<sub>2</sub> concentration with model predicted annual average SO<sub>2</sub> values at Taj Mahal due to emission from Mathura Refinery.

8. **Air quality in TTZ :** The air quality data of Agra, Firozabad and Mathura are annexed at Annexure-10, Annexure-11, and Annexure-12 and the annual average of Agra, Firozabad and Mathura are annexed at Annexure-13.

9. **Contribution of other non-industrial sources of air pollution in Agra:** It appears from the foregoing deliberations that industrial sources of pollution from Mathura Refinery and Glass industries in Firozabad are very minimal in TTZ so also at Taj Mahal. However, there are indications that other sources of pollution such as from vehicles, construction of roads and buildings, biomass & garbage burning, water pollution etc are major contributors of pollution which need to be addressed.

10. **Legal issues:**

10.1 MoEF&CC in its affidavit of January 1996, in response to a Writ Petition no. 13381 of 1984 in the matter of M C Mehta Vs Union of India in the Supreme Court, submitted inter alia, that any industry fails to maintain the prescribed pollution standard of the State Pollution Control Board will be closed down and will not be permitted to operate within the TTZ area; If the closed industry wish to restart, they will be allowed only at the location outside the TTZ; No expansions will be allowed in the operating units in the Taj Trapezium; monitoring of compliance with the environmental standards by the industry; monitoring of progress of conversion of existing single blast cupolas to divided blast cupolas in the foundries in Agra; control of the vehicle pollution etc.

10.2 Hon'ble Supreme Court in its judgment of 30<sup>th</sup> December 1996 had, inter alia, directed that:

- i. ....industries in TTZ shall change over to natural gas as industrial fuel. The industries which are not in a position to obtain gas connections – for any reasons – shall stop functioning with the aid of coke/coal in the TTZ and may relocate themselves.
- ii. ...Industries in TTZ shall approach GAIL for grant of industrial gas connection, etc.

10.3 Hon'ble Allahabad High Court, in its judgment dated July 12, 2013 in a matter of Civil Misc. Writ Petition No. 34863 of 2012 National Chamber of Industries & Commerce U.P. & others Versus GAIL (India) Ltd. and others, had further deliberated the Supreme Court's judgment of 30<sup>th</sup> December, 1996 and was of the view that :

- i. *(Para 24) Initially, the Supreme Court was of the view that all the polluting industries in the TTZ should be shifted out but, on consideration of the reports submitted by the Vardhraj Committee and the NEERI, it came to the conclusion that natural gas is the most economical and appropriate alternate fuel for the running of industries. It thus issued directions in paragraph 29 of the judgment in M.C.Mehta case, which have already been quoted above. After observing that "the relocation of the industries from TTZ is to be resorted to only if the natural gas which has been brought at the doorstep of TTZ is not acceptable/available by/to the industries as a substitute for coke/coal", the Supreme Court was of the view that "the industries operating in TTZ which are given gas connections to run the industries need not relocate. The whole purpose is to stop air pollution by banishing coke/coal from TTZ." (emphasis supplied)*
- ii. *(Para 25) It was not only the protection of Taj that the Supreme Court was concerned about, but also of the damaging effect of the pollution on the people living in the TTZ. In paragraph 27, the Supreme Court found that "the emissions generated by the coke/coal consuming industries are air-pollutants and have damaging effect on the Taj and the people living in the*



TTZ. The atmospheric pollution in TTZ has to be eliminated at any cost. .... It is, rather, proved beyond doubt that the emissions generated by the use of coke/coal by the industries in TTZ are the main polluters of the ambient air."

- iii. (Para 27) ...the main consideration for directing the industries in the TTZ to either convert to natural gas based units or relocate themselves outside the TTZ or shut down, was because of air pollution caused by the running of the industries by use of coke/coal, which was damaging the grandeur of the Taj Mahal, and was also hazardous to public health. It cannot be said that the Supreme Court was wanting to curb the industrial growth of the TTZ, as it itself observed that the old concept that development and ecology cannot go together is no longer acceptable, and that sustainable development is the only answer, as it is essential for the growth of economy of the country, but with the caveat that the environment and the eco-systems have to be protected.
- iv. (Para 28) ...As such, the submission of the learned counsel for the petitioners, that expansion of existing industries or setting up of new industries in the TTZ is not permissible as per the judgment of the Supreme Court, is not acceptable. Further, the contention of the petitioners that allocation of gas to the industries in the TTZ as per the order of the Supreme Court could not be increased, and thus the supply of APM gas to the petitioners was a constant quantity, which could not be varied, is also thus not acceptable.
- v. (Para 29) The other submission of the petitioners that the industries using gas for running their industry also pollute, as pollution is bound to be there where there is combustion, and thus there should be no expansion of existing industries permitted or new industries be prohibited to come up in the area, is a double-edged argument. If that be so, then even the existing units running on APM gas should also be closed down so that pollution is totally controlled. But that cannot be said to be the intention of the order of the Supreme Court, as it has observed that a balance between industrial growth and ecology has to be struck, so that along with ecology, prosperity of the nation may not suffer. Thus, in our view, with this in mind that growth of industrialization should not be stopped and pollution in the area should be controlled as far as possible, the viable solution considered by the Supreme Court was to direct the industries to switch over to gas as a fuel instead of the previous century fuel of coke/coal or oil, which were major pollutants.

## 11. Implementations of decisions taken in the meeting held on 8.9.2016 at MoEF&CC :

The decisions taken in the meeting held on 8.9.2016 at MoEF&CC include the following:

- i. Submission of short-term and long-term plan by TTZA and U.P. Government for ensuring better AQM in TTZ.
- ii. UPPCB/TTZA to conform that no industry is functioning without the approval of UPPCB/TTZA. This is to be confirmed in writing, and
- iii. Ad-hoc moratorium on industries except White category, which needs to be resolved by MoEF&CC.

TTZA and U.P Government are yet to submit the short-term and long-term plans for ensuring better Air Quality Monitoring (AQM) in TTZ, taking into consideration the decision in meeting held on 8.9.2016 at MoEF&CC.

**12. Decisions taken in the 36<sup>th</sup> meeting of TTZ Authority held on 7.12.2016:**

The TTZA in its 36<sup>th</sup> meeting on 7<sup>th</sup> December, 2016 had discussed, inter alia, and decided that the National Chamber of Commerce & Industries, Laghu Udyog Bharati and others may prepare a detailed proposal with regard to consideration for permission of Red, Orange, Green and White categories of industries in the TTZ area which will be sent to the MoEF&CC for further consideration/directions. The TTZA has also decided that a proposal also to be sent to the MoEF&CC for consideration/directions with regard to its earlier decision taken not to permit 43 industries to operate in TTZ area (Annexure-9). The Minutes of Meeting is at Annexure-14.

**13. Conclusion and recommendations:**

The Committee after taking into account the scientific data available to it has, prima facia, of the view that:

- i. Local or regional sources of pollution such as from vehicles, construction of roads and buildings, biomass & garbage burning, crematorium, etc., seem to be major contributors of pollution in respect of air quality at Taj Mahal, which need to be addressed. This requires further source apportionment studies and detailed emission inventory within 15 km radius of the Taj Mahal.
- ii. The emission from Mathura Refinery and glass industries in Firozabad seem to have less contribution on air quality at Taj Mahal due to their distance. However, they should continue their efforts in keeping their emission within the prescribed limits.
- iii. In order to prevent the impact of insects on Taj Mahal, illumination along the river side should be minimal possible, so as to ensure that insects are not attracted towards marble surface. Stagnation of river water and disposal of solid wastes and untreated waste water into the river causing water pollution should be avoided.
- iv. The existing system of vehicular movement near monuments should be strictly enforced and reviewed for further possible improvement based on source apportionment study.
- v. Source apportionment study of ambient air particulate matter (PM) of Agra, Firozabad and TTZ be carried out for chemical species which may indicate urban pollution. This may include chemical speciation of PM. Analysis of organic molecular markers, elemental and organic carbon, ions, secondary species, etc. may be carried out for source identification.

- vi. Satellite data on air pollution for TTZ area may be analysed at finer spatio-temporal resolution. This may help in determining the contribution of pollutants from upwind direction over time. Pollutants on upwind side from major urban centre like Delhi and Haryana may travel up to Agra. This may also help in setting the regional background levels of pollutants.
- vii. A continuous air quality monitor needs to be installed near Taj Mahal. The monitoring station of ASI may be converted to continuous air quality monitoring station.
- viii. Keeping in view that Taj Mahal is the critical receptor of industrial pollution, a policy decision may be taken to permissible categories of industries as per guidelines of eco-sensitive zones (as being followed in other eco-sensitive zones). Keeping in view the balance between industrial growth and environmental protection, industries in the Green/White categorization seem to be further revisited that are relevant to TTZ.
- ix. Revised standards for gas based glass industries may be developed and environmental guidelines for small scale glass manufacturing industries may be prepared.
- x. MoEFCC had filed an affidavit on 9<sup>th</sup> January, 1996 that there will be no permission to new or expansion of industries in the TTZ area. Taking all the facts into consideration, the Hon'ble Supreme Court, in their judgment in 30<sup>th</sup> December, 1996 has directed that the industries are required to change over from coal to natural gas. It seems from the judgment that there is no direction regarding expansion of industries. Hon'ble High Court of Allahabad has held that intention of the Order of the Supreme Court, as it has observed, that a balance between industrial growth and ecology has to be struck, so that along with ecology, prosperity of the nation may not suffer. Therefore, an appropriate policy / direction may be issued on the issue of *ad hoc* moratorium imposed on new as well as expansion of industries in TTZ area.
- xi. Industries that want to convert to natural gas, as directed by Hon'ble Supreme Court, be permitted to do so by TTZA with requisite environmental safeguards without referring such cases to MoEF&CC. Appropriate policy / direction may be issued with regard to operation of such industrial units that obtain gas connection from GAIL and NOC/consent from SPCB.

F. No. Q-15015/29/2016-CPA  
Government of India  
Ministry of Environment, Forest and Climate Change  
(CP Division)  
\*\*\*\*

6<sup>th</sup> Floor, Prithvi Wing  
Indira Paryavaran Bhawan  
Jor Bagh Road, New Delhi-110003  
Dated: 9<sup>th</sup> December, 2016

OFFICE ORDER

Subject: Committee related to Industrial Pollution, Ambient Air Quality and Impact of Pollution on Taj Mahal - regarding.

A Committee is hereby constituted to assess level of Industrial Pollution, Ambient Air Quality and Impact of Pollution on Taj Mahal. The composition of the committee is as under :-

- |  |                   |
|--|-------------------|
| 1. Dr. Manoranjan Hota, Advisor, MoEF&CC | : Chairman        |
| 2. Member Secretary, CPCB, New Delhi     | : Member-convenor |
| 3. Member Secretary, UPCCB, Lucknow, UP  | : Member          |
| 4. Director, NEERI, Nagpur, Maharashtra  | : Member          |
| 5. DG / Representative, ASI, New Delhi   | : Member          |

2. The Terms of Reference (ToR) of the Committee are given below:

- To assess level of industrial pollution and suggest appropriate course of action based on the scientific evidence.
- To assess implementation of decisions taken in the meeting held on 08.09.2016 at MoEF&CC to review the status of Environmental Issues in Taj Trapezium Zone (TTZ).

3. The Committee shall hear all the stakeholders and submit a report by 14<sup>th</sup> of December, 2016.

4. This issues with the approval of the Competent Authority.

  
(N. A. Siddhant)  
Deputy Secretary

To:

- ✓ Dr. Manoranjan Hota, Advisor, MoEF&CC, New Delhi
- Member Secretary, CPCB, New Delhi
- Member Secretary, UPCCB, Lucknow, UP
- Director, NEERI, Nagpur, Maharashtra
- DG / Representative, ASI, New Delhi

Copy To:

- PPS/PS to Hon'ble MoEF&CC, New Delhi
- PPS/PS to Secretary, MoEF&CC
- PS to JS (AKM), MoEF&CC
- The Chairman, TTZ - with the request to kindly make all necessary arrangements regarding visit of Committee to Agra and Firozabad.
- The District Magistrate, Agra, U.P.
- The District Magistrate, Firozabad, U.P.


ATTENDANCE - SHEET

ताज ट्रैपेजियम क्षेत्र के पर्यावरणीय मुद्दों की समीक्षा हेतु पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, सदस्य-सचिव, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, सदस्य-सचिव, उ०प्र० प्रदूषण नियंत्रण बोर्ड, डायरेक्टर, नीरी, नागपुर एवं महानिदेशक/प्रतिनिधि, भारतीय पुरातत्व सर्वेक्षण की कमेटी द्वारा सम्बन्धित विभागों के अधिकारियों के साथ दिनांक 13-12-2018 को पूर्वाह्न 10.00 बजे आगरा विकास प्राधिकरण कार्यालय स्थित बड़े समागार में आहूत बैठक की उपस्थिति।

क्र०	नाम/पदनाम/विभाग	मोबाईल नं०	ई-मेल	हस्ताक्षर
1.	Dr. Manoranjan Halder	09868500086	hals@nic.in	
2.	Ajay Yadav, VC A.S.I., Agre	7055255678		
3.	RAJKUMAR Secretary ADA Agre	8126228119		
4.	NAGENDRA PRATAP Singh C.D.O., Agre			
5.	T.R. SHARMA A.S.I.	9891674050		
6.	Birendra Kumar Dy. Co. Industries Agre/Arre	9457839684	gmdicagre@up- nic.in	
7.	Dinesh Kumar Dy. Director Tourism Agre	9795368960	cgio@up-tourism@ gmail.com	
8.	B.K. Sintel g/in - D.I.C. Mathura	9412321305		
9.	Ashutosh Dwivedi SP Traffic MTA	9454405223		
10.	Dr. Bhuvan Vikrama Superintendent Archaeologist	8392920505		
11.	V.K. SHUKLA Scientist & 1/c Agre	9956009777		
12.	Dr. M.K. Bhatnagar Superintendent Arch Chemist A.S.I. Agre	9411400685		

क्र०	नाम, पदनाम व विभाग	मोबाइल नं०	ई-मेल	हस्ताक्षर
13.	U.K. SHAKYAWAR Chief Manager (HSE) IOCL, Mathura Refinery	9411441449	shakyawaruk @indianoil.in	
14.	SUNIL KAPOOR DSM (HSE) FOCL, Mathura Refinery	9412725728	KapoorS@ indianoil.in	
15.	B.K. SHUKLA D.S.O. Agri Food & Civil Supply	8127820020	shoggrais@gmail. com	
16.	Prakash Kumar ARB, UPPCB, Agra	7839891886	k20UPPCB.com	
17.	Kamal Kumar, Sc-E, CPCB Agra.	9412750211	pragra.upcb@ nic.in	
18 <sup>st</sup>	Khalid Ahmad P.M. U.P.C.W. U.P. Jal Nigam Agra.	9412321244	pmupcaagra @f.s.a.u.t.com	
19.	B.K. GARG P.M. U.P. Jal Nigam Agra	9473942647	bmcuagra@yahoo. com	
20.	V.K. GUPTA EM, Jal Kal, Agra	8192095201	Jal Kal, agra @gmail.com	
21.	Sanjeev Pradhan BX. Enw. Engineer	7300740631	sanjeevpranmit @gmail.com	
22.	Dr. J.P. Singh, A.S.O. U.P.P.C.B., Aligarh	7839891773	redigarti@uppcb. com	
23.	U.K. Gupta, J.E. U.P.P.C.B., Aligarh	7839891713	- to -	
24.	Mohan Lal A.R.M (UPSP) Agra	9412705808	A R M AGR @UPSPIC.com	
25.	Jai Prakash Dy Collector Revenue Mathura	9454417799	JPSultanyana gmail.com	
26.	S.S. Bhatnagar GAIL GAO, Agra	9639001617	SSB@gail.co.in	
27.	RANVEER SINGH GM (MKTG) GAIL GAS, AGRA	8859000830	ranveersingh@ gail.co.in	
28.	Jay R. Rathor EE 2nd, PWD Agra	9411618303	ed1 Pwd Agra @gmail.com	

क्र०	नाम, पदनाम व विभाग	मोबाईल न०	ई-मेल	हस्ताक्षर
29.	Shashi Gupta Smo - Paper Inc	9917372555	-	
30.	P. K. Bharadwaj AO, RSPCB, Bharatpur	9828521472	rotspcb.bharatpur@gmail.com	
31.	R.K. Meena - R.P.S. Distt. Bharatpur (Raj)	941462201		
32.	RAMAN member. M.C. (S.C.)	9837572388	ramanagra2012@gmail.com	
33.	R.V. Singh CAO UPPER	7839891790	r.v.singh@gmail.com	
34.	Krishna Kumar Singh D.F.O. Agra Forest	8174940867	dfogra@gmail.com	
35.	Dr. Ram Kishore representative of M.C. U.P.	9839891041	soagra@rediffmail.com	
36.	S.C. Gaur, G.T.P., A.D.A.	7088802111	gaursc@gmail.com	
37.	JANHWU SHARMA Jt. DA (Conservation/Forest Heritage) AGI, New Delhi	9888541568	jtdeconventionasi@gmail.com	
38.	श. व. जी/डी नरेश, नारायण	9422305272	KV-george@neeri.res.in	
39.	Nazimuddin Addl Director, CPCB	09411232637	nazim.cpcb@ncc.ni	
40.	J.K. Gupta.	09837031441	JKgupta@Sgei.org.	
41.	Sharad K Singh	9415151544	eelelaaagra@gmail.com	
42.	CHANCHAL LOHIYA (MANAGER)	(0562-6549001)	chanchal.lohiya@ggionline.net	
43.	Hem Chandra Gaudam AR-TO Agri	7500394270		
44.	Sudhanshu Mohan Jt. Commissioner	9415134059		

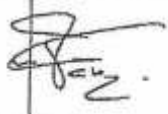
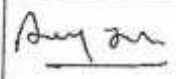

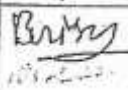
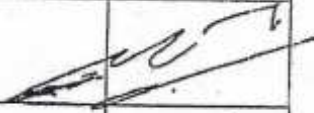
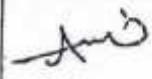
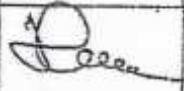
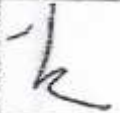




क्र०	नाम, पदनाम व विभाग	मोबाईल नं०	ई-मेल	हस्ताक्षर
45.	Dr. Vishwanath Sharma Lo(IE), UMICB Ferozabad	942534805	roberajsharma@ umicb.com	
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## ATTENDANCE - SHEET

ताज ट्रेपेजियम क्षेत्र के पर्यावरणीय मुद्दों की समीक्षा हेतु पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, सदस्य-सचिव, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, सदस्य-सचिव, उ०प्र० प्रदूषण नियंत्रण बोर्ड, डायरेक्टर, नीरी, नागपुर एवं, महानिदेशक/प्रतिनिधि, भारतीय पुरातत्व सर्वेक्षण की कमेटी द्वारा गैर-सरकारी संस्थाओं (एन०जी०ओ०) के साथ दिनांक 13-12-2016 को पूर्वाह्न 11.00 बजे आगरा विकास प्राधिकरण कार्यालय स्थित बड़े समागार में आहूत बैठक की उपस्थिति।

क्र०	नाम/पदनाम/दिभाग	मोबाईल नं०	ई-मेल	हस्ताक्षर
1.	Ritu Verma (Child line 1098)	8192946263	Ritu.Verma@childline1098.com	
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4.	Umesh Sharma	9760013127	umesh_sharma@hotmail.com	
5.	J.K. Gupta	9837031441	jk Gupta@spg.org	
6.	M.K. Boral (Chairman) (Glass Manufacturers Exporters Association)	9837095756	mkboral@fospresent.com	
7.	Mahesh Sharma UPGMS.			
8.	श. न. उ. गु. म. 221 मी पंचायत समिति देवागरी रायपुर	9457421281		
9.	SURENDRA SHARMA MAUSHI GLASS WORKS	9927533646		
10.	Vinay Kumar Coyal Nannant Vixenbra Kumar Mukta Uluu Adhishat	9837065659	vinayanmit18@yahoo.com	
11.	Virender Gupta President - Transport Club	9412255170		
12.	J.S. Fauzdar Credan Agre	9639541456		

क्र०	नाम, पदनाम व विभाग	मोबाईल नं०	ई-मेल	हस्ताक्षर
13.	Arum Dang of Tourism Sule of ASYA	09917414330		
14.	अनिल दास निदेश लागत ब्यां क-या ग-अपरा	8881430923		
15.	Madhav Kumar Concordia Gurdas P.S.	97600 3337		
16.	Brijesh Aggarwal FIRAZABAD	9837625102		
17.	Pyran DAWAR	9837065740		
18.	Anil Jari	9837034812		
19.	M. Islam Khan	989496112012		
20.	Hannuman Prasad Garg THE Gitan Industries Export	9412268384		
21.	Sanjay Agarwal Senior Secy UGMS PZ	9837035741		
22.	Pradeep Gupta om glax ho	9837082123		
23.	Dr. K. K. Sharma V.P. G. S. P. Z.	98370 9864		
24.	Rekesh Tyagi Jigga Seta, Sandhan	9411962407		
25.	Ashok Kumar Gopal President National Chamber of Ind. & Com.	9837071262		
26.				
27.				
28.				

List of Participants in the interaction meeting with glass industries stakeholders at Firozabad on 14th December 2016

Firozabad 14/Dec/2016

1. Shri Manish Ashji - M.L.A. Firozabad
2. Shri Pradeep Gupta - Om Glass
3. Shri Raj Kumar Mittal - Mittal Glass UFGMS President
4. Shri Jaiyay Agarwal - General Trade -
5. Shri Hanuman Lal Gay - Sarvodaya Glass
6. Shri Mahesh Bansal - Sitaram Glass
7. Shri Anil Jain - Surya Glass
8. Shri Rakesh Agarwal - Prem Glass
9. Shri Vinay Agarwal - Nanomul Winda Ki Mittal & Co
10. Shri Navendu Mittal - Meera Glass
11. Shri Anand Kumar - Adarsh Kanch Industries
12. Shri Umesh Kumar Agarwal - Sant Glass
13. Shri Pradeep Gay - Jyoti Glass
14. Shri Rishi Khosla - Varbhari Glass
15. Shri Soni Jain - Pankaj Glass
16. Shri Dharmendra Gupta - Tiger Glass
17. Shri Santosh Agarwal - Pooja Glass
18. Shri Deepak Gupta - Hi life Glass
19. Shri Manoj Sharma - Pankaj Glass
20. Shri Anuj Bhatnagar - Pankaj Glass

#### Annexure-4

#### Salient points of representations of stakeholders to Committee in Agra and Firozabad

- I. **Agra Development Foundation, Agra – 13.12.2016**
  - i. According to the new R/O/G/W categorization of industries by CPCB, Red category of industries are not allowed in eco-sensitive areas, therefore imposition of ban on industries other than White category is not proper. Orange and Green categories do not have air pollution potential
  - ii. Agra is a prominent potato growing area and many cold storage are under construction, but cold storage falls under Green category of the new R/O/G/W categorization
  - iii. Leather footwear is a prominent industry of Agra and has a scope of development but it falls under Green category of the new R/O/G/W categorization
  - iv. Agra is an important tourist city having three world heritage monuments and many new hotels are proposed but hotel up to 20 rooms fall under Green category, hotels of 20 to 100 rooms fall under Orange category, and hotels discharging more than 100 KLD effluent fall under Red category of the new R/O/G/W categorization. Hotels have negligible potential of increasing PM10
  - v. Construction project of more than 20000 m2 fall under Orange category of the new R/O/G/W categorization
  - vi. Various other industries which are not air polluting fall under Orange and Green category of the new R/O/G/W categorization of industries by CPCB
  - vii. Industries which fall even under Red category of the new R/O/G/W categorization should be allowed if such industries do not have air pollution potential, such as airport & commercial strips, hotel of more than 100 KLD effluent discharge, healthcare establishments
  - viii. Industries in TTZ are not allowed to use coal and all industries are operating on natural gas. New coal based industries are not allowed in TTZ
  - ix. Air quality data of past year shows that PM10 has not increased near industries. PM10 has increased near Taj Mahal due to construction activities
  - x. Industries are not responsible for PM10 exceeding, rather there are other reasons such as:
    - Unpaved land on two sides of roads
    - Ongoing construction of NH-19 (old NH-2) since 2014, in North
    - Ongoing construction of bypass connecting NH-19 (old NH-2) to NH-44 (old NH-3), in South
    - Construction from 2012-13 till November 2016 of 10.8 km Ring Road connecting NH-19 (old NH-2) to Fatehabad Road, in East, which involved 5-8 meter high earth filling work

- Ongoing construction of Agra-Lucknow Expressway since last two years, in East
  - Construction of various link roads by different agencies
  - Construction activities in the Rs. 140 crore Tajganj Project near Taj Mahal, which involved stone/granite work
  - Increase in number of vehicles – there are 9.73 lakh vehicles and vehicles increase by 12-14 % in one year, which are increasing emissions as well as dust
  - Poor conditions of roads, encroachment of road space (RoW) and traffic jams
  - Old crematorium in Tajganj near Taj mahal
  - Improper management of MSW which can be seen spilled at all places in the city
  - Burning of garbage and leaf / agricultural residue
  - Burning of wood and dried cattle dung as domestic fuel by poor people
  - Dry Yamuna
  - Disruptions in electricity supply
- xi. Ban on cold storage, footwear units and hotels will lead to unemployment in Agra
- xii. TTZ Authority, U.P. Government and other agencies are yet to prepare short term and long term action plan
- xiii. Inputs for Short Term and Long Term Action Plan:

#### Short Term

- Efficient traffic management
- Proper maintenance of roads
- Regular program for removing encroachment on roads
- Regular cleaning of road sides
- Regular cleaning of roads
- Tree plantation on sides of roads
- Encouraging people to plant native trees
- Greenery and afforestation through water conservation and rain water harvesting
- Banning plying of old vehicles
- Pavement of road sides by Interlocking tiles allowing water percolation
- Regular checking of emission of vehicles
- Effective ban on garbage and leaf / agriculture residue burning
- Banning use of crackers and fireworks
- Compliance of MSW Rules by Municipal Corporation and Cantonment Board
- Effective enforcement of rain water harvesting regulations
- Mass awareness
- Regular electricity supply
- Promoting use of invertors for back up electricity
- Promoting use of solar energy
- Introducing smaller buses for public transport (52 big morcopolo buses in use)

#### Long Term

- Constructing of barrages on Yamuna in upstream and downstream, rubber dam option be also considered
- Introducing of MetroTrain in Agra

- Constructing bypass connecting NH-19 (old NH-2) to NH-509 (old NH-93), in North, which has been declared by Minister-RTH&S on 10.12.2016 in Agra, so that movement of heavy goods vehicle inside city can be fully stopped
- Increasing domestic gas supply area by laying pipeline
- Making projects like Kakretha Wetland on bank of Yamuna River for effluent drains joining Yamuna
- Developing landfill sites for proper disposal of MSW

2. **Laghu Udyog Bharti, Camp Office Agra – 13.12.2016**

- i. After closure of foundries, brick kilns and other small industries, Agra is now left with other (non polluting) works such as tourism, handicraft, medical, education, footwear, cold storage etc. The monuments have suffered due to negligence of various departments:
  - NHAI: Six laning work of NH-2 is continue for 2.5 years and current pace of work may take another 3 years, which is responsible for PM10 increase near Taj Mahal. NHAI has taken 10 years to complete 16 South bypass, whereas ADA has completed Ring Road in 2.5 years. NHAI should complete the work in time bound manner.
  - ASI: Has not introduced grading system for monuments and 100 monuments in Agra are treated in same manner in respect of restriction of activities near them
  - UPSRTC: Workshops are operational at Agra Fort, Idgah and Foundary Nagar where diesel operated buses are repaired. Workshops should be shifted outside
  - Railways: Diesel engines are used for shunting at Agra Fort and Yamuna Bridge. Agra-Bhartapur line in TTZ has not been electrified yet. Railways be directed regarding shunting
  - Mathura Refinery: Has carried out expansion several times in TTZ since 1983 fro which permission is given every time. There is drinking water scarcity in Agra but water is given to Mathura Refinery. The revenue goes to Mathura which has constructed Gokul barrage
- ii. All except few of Red category, all Orange category and all Green category industries of the new R/O/G/W categorization of industries by CPCB should be allowed based on use of CNG, LPG
- iii. Hotmix plant be allowed for fix period based on work order
- iv. Domestic effluent limit of 100 KLD be increased to 1000 KLD under Orange category of the new R/O/G/W categorization
- v. DG Sets as standby based on ultra diesel (BS IV) be allowed as these are required for hospitals, hotels, lifts in housing society etc.
- vi. Yamuna should be de-silted to increase water percolation
- vii. MSW management should be improved and door to door collection be introduced

- viii. Recommendations given by NEERI in 2013 be implemented
- ix. Toll Plaza be removed from TTZ, as these cause traffic congestion
- x. Road construction activities be carried out in time bound manner
3. **Laghu Udyog Bharti, Camp Office Agra – 23.12.2016**
- i. As per standards set for Eco-sensitive zone, there should not be ban on Orange and Green category units in TTZ area.
- ii. Non-Air Polluting industries of Red category be allowed to be established.
4. **Prof. Ram Shankar Katheria, Ex-MoS for HRD – 24.11.2016**  
Forwarded representation (dt 25.10.2016) of Laghu Udyog Bharti, which requested to lift the ad-hoc moratorium imposed on the expansion and setting up of new industry (except white category):
- Decision to impose ad-hoc moratorium on the expansion and setting up of new industry (except white category) to control air pollution by TTZA has led to great hardship, requiring its re-consideration and immediate lifting for the reasons as under:
    - The concern in the meeting was about PM10 levels but the ad-hoc moratorium has been imposed on the industries which are not pollutant from PM10 point of view.
    - A large number of industries of Green and Orange categories are not pollutants from PM10 levels, therefore, the moratorium for their setting up and expansion is not reasonable.
    - The categorization of industries in Orange or Green categories is not based on the pollution load of PM10 and this significant aspect was not kept in view while imposing the moratorium.
    - Even otherwise, the PM10 levels have not become in Agra so critical to impose ad-hoc moratorium.
    - The increase in PM10 levels is on account of (i) road dust and (ii) lack of greenery.
    - Passing of a large number of vehicles from the city through National Highways, dry Yamuna, open burning of stubble/agricultural residues/MSW for which industry cannot be blamed.
    - That notably all industries are allowable in the eco-sensitive area except the red category industries.
    - The moratorium has affected adversely the setting up/expansion of hotels, footwear industries and cold storages.
    - The moratorium of setting on footwear industry and cold storage would harm the weaker section and farmers.
    - The moratorium is creating unemployment in TTZ area.
5. **CREDAL, Agra Chapter – 13.12.2016**  
(same as that of Laghu Udyog Bharti)

6. **Mr. Raman, Member Monitoring Committee – 13.12.2016**  
The TTZ Authority has no tools for comprehensive, integrated planning, execution and monitoring to comply with the directions of Apex Court. Only an integrated, coordinated, comprehensive scientific approach for planning and execution with a proper monitoring system can deliver the desired results. This has been indicated / recommended by NEERI at Page 144-145 of EMP 2013 report and Parliamentary Committee visit 10/11.04.2015 report. Submission made by me in NGT (PB) case OA 273 of 273 may also be considered.
7. **Glass Manufacturer & Export Association, U.P., Firozabad - 13.12.2016**
  - i. Supreme Court has ordered for conversion from coal to gas by order dated 30.12.1996. When glass units in Firozabad started to change the items produced by them, Hindustan Glass / Somani Group having monopoly in glass bottles/containers started making false complaint using NGOs. High Court in Para 27, 28, 29 of order dated 12.2.2013 has also interpreted that there is no ban on expansion or setting up of new industries in the TTZ
  - ii. Glass industry in Firozabad gives employment to >10 lakh people Industries in TTZ use only gas as fuel. The decision taken by TTZ Authority on 7.1.2015 reviewed.
8. **The U.P. Glass Manufacturers Syndicate, Firozabad - 14.12.2016**
  - i. Supreme Court has intended to ban coal in Para 26 of order dated 30.12.1996. Operating glass industries are using gas further awaiting availability of gas by GAIL. High Court has allowed gas supply of gas in several cases in 2009, 2010 and 2013
  - ii. TTZ Authority in its 32<sup>nd</sup> Meeting held on 7.1.2015, discussed the decision taken in meeting held in MoEF on 15.10.2014 and letter dated 4.4.2014 of MoEF, and TTZ Authority decided to not allow establishment of any new air polluting unit and any expansion in existing unit. Although as per Supreme Court order and MoEF letter dated 4.4.2014 the units existing in 1996 should be allowed operate at the 1996 capacity if gas is made available
  - iii. The decision taken by TTZ Authority on 7.1.2015 and 6.5.2015 and MoEF on 8.9.2016 should be reviewed.
9. **Mr. ...., a social worker, Firozabad – 14.12.2016**
  - i. Wind blows towards West for 10 months in a year.
  - ii. The issue of expansions of glass industries in Firozabad was settled when Chairman, Parliamentary Committee on Environment and Ex MP from Firozabad and MLA from Firozabad showed Supreme Court and High Court orders to Secretary Environment Mr. Ashok Lavasa and Mr. Ashok Lavasa assured to issue necessary orders after coming of NEERI report on Firozabad
  - iii. Some big industrial houses which had monopoly in glass industry became concerned as when glass units in Firozabad started to make bottles in 2012. Production of one units of HNG group which uses highly polluting pet coke as fuel is more than total production of all units in Firozabad. And since 2012 false complaint are being made against glass industries in Firozabad



iv. TTZA said on 7.1.2015 that production has exceeded 1996 level but different affidavit is submitted before NGT

10. **Common representation from 43 Glass units in Firozabad – 14.12.2016**

Many units in Firozabad are ready for production and waiting for gas supply but are suffering since decision dated 7.1.2015 of TTZA. All are included in the 625 list of industries in W.P. 13381.84 and several of these units have contract with GAIL for gas supply. Order may be issued to supply gas.

11. **Nannumal Virendra Kumar Mittal Glass Industries, Firozabad – 13.12.2016/14.12.2016**

Units name is included in list of units ready for gas supply by GAIL. Applied to TTZ Authority but they have forwarded the case to MoEF. Order may be issued to TTZA and GAIL to supply gas.

12. **Choodi Pakai Bhatti Sangharsh Samittee, Firozabad – 12.12.2016 / 14.12.2016**

We were operating since 1956 but coal using units were closed in 2014 although we had communicated our willingness to switchover to gas. Gas has not been permitted to us since 7.1.2015 although gas supply is ready and meter has been installed. Order may be given to TTZA

13. **Pakai Bhatti Hitkari Audyogic Sahkari Samittee, Firozabad – 14.12.2016**

We are suffering for last two years. Unemployment is compelling to starving. TTZA has not given relief. Order may be given to TTZA

14. **Pakai Bhatti Hitkari Audyogic Sahkari Samiti, Firozabad – 26.11.2016**

Request for approval from TTZ Authority for gas supply by GAIL.

15. **National Chamber of Industries & Commerce, UP – 13.12.2016**

- i. Though Supreme Court did not direct to supply subsidized/low priced gas to Agra-Firozabad industries located in TTZ but Ministry of Petroleum & Natural Gas continued the allocation of subsidized/low priced (i.e. APM/indigenous gas) 1.1 MMSCMD to Agra-Firozabad industries located in TTZ.
- ii. After constitution of TTZ vide Gazette of India, Extraordinary, MoEF&CC issued many directions restraining the new establishment of glass industries and expansion of existing glass industries in TTZ area of Firozabad.
- iii. DM, Firozabad/Dy. Commissioner, Industries, Firozabad claimed that the air pollution emitted from Firozabad glass industries could not adversely affect Taj Mahal as it is situated 40 Kms. Away and the wind directions towards Taj remain for only 2 months in a year.
- iv. As per report of the study conducted by NEERI in April 2016, air pollutants of Firozabad air quality did not reach at Taj Mahal due to wind directions and far distance from Taj Mahal.

In view of above, TTZ may be redefined and renotified by deleting Firozabad therefrom in order to resolve all disputes/objections etc regarding capacities expansion of the existing glass industries and new establishment of new glass industries in Firozabad.

16. **Lok Nagrik Kalyan Samiti, Firozabad – 28.12.2016**

- i. Handicrafts industry suffering due to competition with Chinese products
- ii. Production capacity of some big industrial houses e.g. HNG is more than the total production capacity of TTZ units and they use highly pollutant Petrocoke.
- iii. An official of HNG Group, Neemrana (Haryana) & Chairman, NIGMA misguided the Government resulting in suffering by Firozabad industries.
- iv. Copies of High Court orders wherein TTZ Authority is instructed to reinstate the industry within 30 days.
- v. Request to provide relief to the 43 units which have fulfilled necessary requirements of TTZ Authority.

17.

The green and black patches appeared on the white marble surface of pedestal wall at northern side, particularly on the edges, corners & floral panels on the arches of northern side of main mausoleum. These are effected by insects attack in the form of swarms emerge from river side and moves towards Taj Mahal. It is observed that in the evening these insects attracts towards light of any type (bulbs/LED/tube lights or CFL) and even the brightness of marble but remain inactive in day light (sunlight).

These insects and their larvae also feed the content of phosphorus. The presence of phosphorus content in the sample analysis confirms with the test results of excrete (Report received from ASI, Dehradun laboratory). The high development and growth of algae, is results of polluted and stagnated water at both side of river Yamuna. While in the rainy season, when the water level gets high with maximum flow, then the environment does not favour the growth and development of larvae of these insects, therefore, insect activity not observed.

Some remedial measures have been tested on trial basis to reduce insects activity on marble surface. A solution of mixed solvents in appropriate raio has been prepared and put under the light for overnight at Taj Mahal. As a result of it thousands of insects trapped in solution.

**Annexure-5**

**STATUS OF INDUSTRIES**

INDUSTRIES OPERATED WITH COKE/COAL	615
INDUSTRIES OPERATED WITH (OIL/WOOD)	39
PETHA INDUSTRIES OPERATED WITH	117
OTHER INDUSTRIES IN AGRA	781
	292

SL. NO.	DISTRICT	STATUS OF 625 INDUSTRIES OPERATED WITH COKE/COAL				STATUS OF 39 INDUSTRIES OPERATED WITH (OIL/WOOD) OTHER FUEL				OTHER INDUSTRIES EXCEPT 625 INDUSTRIES				TOTAL INDUSTRIES			
		NO. OF IND.	GAS OPERATED IND.	CLOSED	OTHER PROCESS	NO. OF IND.	GAS OPERATED IND.	CLOSED	OTHER PROCESS	NO. OF IND.	OPRTATIONAL	CLOSED OR DISMENTAL	TOTAL INDUSTRIES	OPRTATIONAL	CLOSED OR DISMENTAL		
1	ASRA	77	15	58	4	19	4	3	0	0	0	292	191	101	388	217	171
2	HATHRAS	63	2	58	3	0	0	0	0	0	0	0	0	0	63	5	58
3	MATHURA	41	0	30	11	9	0	0	9	0	0	0	0	0	50	20	30
4	ETAH	34	0	29	5	9	0	0	1	0	0	0	0	0	43	5	38
5	FIROJABAD	410	181	227	2	2	0	0	0	0	0	21	15	6	433	200	233
	TOTAL	625	198	402	25	39	20	13	13	313	206	107	977	448	529		

A- 21 INDUSTRIES ARE OLD NOT LISTED IN 625 INDUSTRIES OR SAYS 410 INDUSTRIES OF FIROJABAD GIVEN PERMISSION FROM UPCCB ETC  
 B- 43 INDUSTRIES ARE OLD LISTED IN 625 INDUSTRIES OR SAYS 410 INDUSTRIES OF FIROJABAD  
 C- OUT OF 625 INDUSTRIES 3 INDUSTRIES RUNNING OUT OF 43 INDUSTRIES 2 INDUSTRIES RUNNING AND IN FIROJABAD TOTAL 3 INDUSTRIES RUNNING REQUIRED PERMISSION FROM TTZ  
 D- 50 INDUSTRIES ARE OLD LISTED IN (410+2+1=413) INDUSTRIES OF FIROJABAD EXPEND THEIR CAPACITY

## Annexure-6

Natural gas consumption in industries in Agra as provided by GAIL.

	Payer Name	MCQ in SCMD
1	AGRA CHAINS PVT LTD	
2	BALKESHWAR SILICATE WORKS	1500.00
3	GOYAL METAL INDUSTRIES	900.00
4	ANIL METAL INDUSTRIES (FOUNDRY DIVISION)	300.00
5	AGRA LOH UDYOG	1000.00
6	BOMBAY ENGG & MOULDING WORKS	1000.00
7	DEVI SAHAI GOPAL DAS IRON FOUNDRY	450.00
8	R.R. IRON FOUNDRY	2000.00
9	ATUL GENERATORS P LTD	300.00
10	METAL PRODUCTS	6700.00
11	AGARWAL WIRE INDUSTRIES	300.00
12	BRITANNIA ENGINEERING COMPANY	1000.00
13	INDIA STEEL INDUSTRIES	500.00
14	AGRA ROLLER FLOOR MILLS	300.00
15	AJANTA INDUSTRY	1100.00
16	B.P. OIL MILLS LTD.	500.00
17	RAJ PATTERN MAKERS & FOUNDERS (P) LTD.	2000.00
18	BENGAL INDUSTRIES	700.00
19	RATAN INDUSTRIES (P) LTD	300.00
20	SHREE BANKEY BIHARI UDYOG	3300.00
21	SHRI RAM METAL INDUSTRIES	1125.00
22	VULCAN ENGINEERING CORPORATION	1938.00
23	RAVI AGRICULTURAL INDUSTRIES	950.00
24	S.G. INDUSTRIES UNIT-I	300.00
25	FARMER INDUSTRIES	300.00
26	MOTI LAL AGARWAL & CO. (FOUNDRY)	375.00
27	PEE CEE COSMA SOPE LTD	900.00
28	DIWAN CHAND SURAJ PRAKASH JAIN	875.00
29	MITTAL IRON FOUNDERS & ENGINEERS	2600.00
30	MANIK CHAND GARG & CO	375.00
31	INDU ENGINEERING & TEXTILES LTD.	300.00
32	JAGDISH METAL WORKS	2050.00
33	KAJECO INDUSTRIES-UNIT-II	800.00
34	MAHARAJA AGARSEN IRON FOUNDRY	1200.00
35	MEGHDOOT PISTONS PVT.LTD.	300.00
36	KANSAL IRON FOUNDRY	700.00
37	ACCURATE FERRO CASTING	700.00
38	CAPSTAN RUBBER PRODUCTS	300.00
39	INDIA AUTO RINGS	600.00
		300.00

40	LUTHRA ENGG INDUSTRIES	
41	PALIWAL IRON FOUNDRY & METAL WORKS	1000.00
42	SAMTA TRADING CORPORATION	870.00
43	S.G. INDUSTRIES UNIT-2	400.00
44	NARAYAN BROTIERS UNIT-1	300.00
45	PARTH ENGINEERING	300.00
46	PROCESS & PRODUCT DEVELOPMENT CENTRE	1725.00
47	AGRA ISPAT UDYOG	300.00
48	AJANTA DAIRY	1000.00
49	NOVELTY METAL & RUBBER INDUSTRIES	1000.00
50	PAPER & BOARD CONVERTERS	300.00
51	PARAGON INDUSTRIES	400.00
52	SUNDEEP AUTO INDUSTRIES	600.00
53	NOVELTY UDYOG	300.00
54	POWER FIELD ( INDIA )	300.00
55	RAVI FOUNDERS AND ENGINEERS	375.00
56	PRAKASH IRON FOUNDRY	300.00
57	KATYAL INDUSTRIES	5000.00
58	ESBEE STEELS & CASTING	500.00
59	J.J.RUBBER, & PLASTICS	900.00
60	SHANTI VRAT & SONS (P) LTD	300.00
61	SHILA UDYOG	700.00
62	R.K. IRON INDUSTRIES	300.00
63	MITTAL INDUSTRIES	500.00
64	SAHAJ CERCHEM PVT. LTD.	1250.00
65	HINDUSTAN CRUSHERS & FERTILISE CO.	11700.00
66	G.T. IRON INDUSTRIES	300.00
67	SHAKTIMAN INDUSTRIES	500.00
68	SHINING ENGINEERING WORKS	300.00
69	KHANDELWAL INDUSTRIAL ENTERPRISE	700.00
70	GOPAL IRON FOUNDRY	1500.00
71	INDIA CASTING CO UNIT NO-2	450.00
72	KRISHNA ENGINEERING WORKS	2400.00
73	METAFAB ENGINEERING ASSOCIATES	300.00
74	SHAKTI RUBBER CORPORATION	2300.00
75	KAUSHAL INDUSTRIES	500.00
76	MAHAVIR IRON FOUNDRY	550.00
77	GOEL IRON & STEEL WORKS-II	600.00
78	MEERAJ IRON FOUNDRY	1250.00
79	SUHLAM ENGINEERING WORKS	900.00
80	SURESH IRON FOUNDRY & ENGG WORKS	300.00
81	STANDARD PUMPS	440.00
82	SHREE RAM IRON FOUNDRY AND ENGG. WO	2500.00
82	SHREE RAM IRON FOUNDRY AND ENGG. WO	750.00
83	SUNRISE RUBBER INDUSTRIES	300.00

84	ATUL ENGINEERING UDYOG	
85	AMAR ENTERPRISES	2300.00
86	STERLING AUTO INDUSTRIES	700.00
87	UNITED INDUSTRIES	1200.00
88	SHRI BHAGWATI IRON FOUNDRY	500.00
89	ANJANI ENTERPRISES	700.00
90	AUTOMOTIVE PRODUCTS	700.00
91	TECHNO INDUSTRIES	2500.00
92	TRACKO INTERNATIONAL	400.00
93	TAJ IRON FOUNDRY AUDHYOGIC UTPADAN SAHKARI SAMITI LTD.	1600.00
94	ALFA ENGINEERING WORKS	500.00
95	AMAR JYOTI INDUSTRIES	300.00
96	SHRI RAM ENGINEERING WORKS	3000.00
97	ASSOCIATED INDUSTRIAL CORPORATION	600.00
98	B.S.AGRICULTURE INDUSTRIES	2000.00
99	DEVI ENTERPRISES	1200.00
100	BALKESHWAR NATH INDUSTRIES	300.00
101	BAJRANG IRON FOUNDRY	400.00
102	BHARAT IRON & STEEL FOUNDRY	1250.00
103	S.K.IRON FOUNDRY & ENGG.CO-II	1800.00
104	BRIJ IRON INDUSTRIES	600.00
105	ARBARIYA STEELS	650.00
106	CASTWEL FOUNDRY	3000.00
107	THE NATIONAL IRON FOUNDRY	750.00
108	BAJWA RUBBER INDUSTRIES-2	900.00
109	CAPSTAN RUBBER INDIA-2	350.00
110	CAPSTAN RUBBERS (INDIA)	500.00
111	WESTON RUBBER INDUSTRIES	600.00
112	S.K. IRON FOUNDRY & ENGG CO	500.00
113	SINGHAL INDUSTRIES	300.00
114	A.B. AUTO WORKS (P) LTD	1250.00
115	ASHOK METAL WORKS	500.00
116	JAGDISH INDUSTRIAL CORPN.	500.00
117	KAMAL ENGG WORKS	300.00
118	KUMAR STEEL WORKS	400.00
119	NARESH IRON FOUNDRY	300.00
120	RELIABLE INDUSTRIES	300.00
121	SHIVAM INDUSTRIES	600.00
122	VINAY IRON FOUNDRY	900.00
123	SURESH INDUSTRIES	625.00
124	METAL CAST (INDIA)	300.00
125	B.K. CASTING	300.00
126	GOLDEN INDUSTRIAL CORPN.	300.00
127	KAMAL ENGINEERING WORKS-II	300.00

128	MAHARISHI DAYANAND IRON FONDRY	
129	SHANKAR FOUNDRY & ENG. WORKS	600.00
130	R. K. ENGINEERS & FOUNDERS	1500.00
131	WASAN & CO.	600.00
132	A.V. VALVES LIMITED	300.00
133	AGRA OIL & GENERAL INDUSTRIES LIMITED	300.00
134	DONERIA PRIVATE LIMITED	4000.00
135	CHINAR FOUNDRY	400.00
136	RAGHAV ENGINEERING	300.00
137	EXPERT FOUNDERS & ENGINEERS	2000.00
138	GANGA ENGINEERS UNIT-I	300.00
139	PAWAN AUTO INDUSTRIES	375.00
140	KANSAL ICE & COLD STORAGE	500.00
141	NATIONAL CHEMICALS	1000.00
142	STERLING MACHINE TOOLS	1100.00
143	N. K. IRON INDUSTRIES	1500.00
144	S.B. IRON FOUNDRY	2000.00
145	SURAJ FOUNDRY	1500.00
		900.00

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Annexure-7

Natural gas consumption in glass industries in Firozabad as provided by GAIL

S. No.	Payer Name	MCQ in SCMD
1	AKASHDEEP GLASS INDUSTRIES	8000.00
2	ANAND GLASS WORKS	15000.00
3	B.M.GLASS WORKS	3000.00
4	BAJRANG POTTERIES	7500.00
5	CHOICE GLASS INDUSTRIES	6000.00
6	DURGESH BLOCK & CHINA GLASS WORKS LIMITED	40000.00
7	EMPEESIL GLASS WORKS P LTD	10000.00
8	FIROZABAD CERAMICS PVT LTD	26000.00
9	GEETA GLASS WORKS	30000.00
10	GIRDHARI LAL MANOHAR LAL GL WORKS-2	27500.00
11	GYAN CHAND MAHAVIR PRASAD JAIN INDUSTRIES	3500.00
12	HILITE GLASS PVT LTD	14300.00
13	HIND GLASS INDUSTRIES	38000.00
14	INDUSTRIAL & BUILDING GLS.IND.	22000.00
15	MATESHWARI GLASS WORKS	12000.00
16	MITTAL CERAMICS	38000.00
17	NEW JAIN ENTERPRISES	3500.00
18	POOJA GLASS WORKS PVT. LTD.	12000.00
19	PREM GLASS INDUSTRIES	3000.00
20	R. R. GLASS INDUSTRIES	4000.00
21	RACHNA INDUSTRIES	11000.00
22	RENU GLASS WORKS	6000.00
23	SHRI SITARAM GLASS WORKS	38000.00
24	SHYAM GLASS WORKS	9000.00
25	SUN GLASS WORKS PVT LTD	34000.00
26	TECHNICAL GLASS INDUSTRIES	8000.00
27	VISHESH INDUSTRIES	20000.00
28	GOYAL GLASSWARE PRIVATE LIMITED	35000.00
29	KWALITY GLASS WORKS	8500.00
30	GENERAL TRADERS	15000.00
31	ADVANCE GLASS WORKS	8000.00
32	AKASH WANI GLASS WORKS	12000.00
33	OM GLASS WORKS PRIVATE LIMITED	42000.00
34	PANKAJ GLASS WORKS LIMITED	35000.00
35	SHRI SANT GLASS WORKS	5000.00
36	ALANKAR GLASS WORKS	2000.00
37	ALOK GLASS WORKS	18500.00
38	ANUP GENERAL INDUSTRIES	5500.00
39	BABY GLASS WORKS	7650.00
40	BANSAL GLASS WORKS	3000.00



41	CORONATION GLASS WORKS	
42	CROWN GLASS INDUSTRIES	10500.00
43	CRYSTAL GLASS INDUSTRIES	12000.00
44	PIROZABAD GLASS SHELL INDUSTRIES	2500.00
45	GIRNAR GLASS WORKS	32000.00
46	HARI OM GLASS INDUSTRIES	6000.00
47	INDIA ELECTRICAL GLASS WORKS	3500.00
48	INDIA OPTICAL & SCIENT. GLASS WORKS	3200.00
49	JAIN INDUSTRIES	4000.00
50	MANOHAR GLASS WORKS	5000.00
51	MATHUR GLASS INDUSTRIES	3000.00
52	NEW BANSAL GLASS WORKS	4000.00
53	NEW SUPER GLASS INDUSTRIES	5000.00
54	PREM GLASS WORKS	3150.00
55	PURSHOTTAM GLASS WORKS	3000.00
56	RADHA GLASS WORKS	3500.00
57	SHREE RAM GLASS WORKS	5000.00
58	SHRI GANESH BLOCK GLASS WORKS	17000.00
59	SHRI PADMAWATI KANCH UDYOG	3500.00
60	SUHAG KANCH UDYOG	3750.00
61	SUPER GLASS WORKS	10625.00
62	TIGER SONS GLASS IND.(P) LTD.	4000.00
63	UMA GLASS WORKS	44000.00
64	WONDER GLASS WORKS	16000.00
65	BHARAT TRADING CORPORATION	1500.00
66	MODERN GLASS INDUSTRIES	2500.00
67	SHRI DURGA GLASS WORKS	29000.00
68	SHRI JAGDAMBA INDUSTRIES	11000.00
69	ADARSH KANCH UDYOG (P) LTD.	3000.00
70	ADVANCE LAMP COMPONENT & TABLEWARES PVT. LTD.	20000.00
71	A-ONE GLASS WORKS	24800.00
72	GANESH BEADS INDUSTRIES	4300.00
73	GIRDHAR GLASS WORKS	14000.00
74	RUBY NOVELTIES GLASS HOUSE	2500.00
75	SHRI INDRA SCIENTIFIC GLASS WORKS	5000.00
76	SHRI NATHJI GLASS WORKS	15000.00
77	SHRI SHYAMA GLASS WORKS	10500.00
78	SRI SATYANARAIN GLASS WORKS	2800.00
79	YADAV GLASS WORKS	3750.00
80	VINOWA GLASS WORKS	4000.00
81	CHURI PAKAI BHATTI SYNDICATE COOP.SOCIETY	4000.00
82	JANHIT PAKAI BHATTI SEHKARI SEWA SAMITI	3000.00
83	BANKEY BIHARI GLASS INDUSTRIES NO.2	5000.00
84	STAR GLASS WORKS	3000.00
		3200.00

85	SHREE GURU NANAK GLASS WORKS	10000.00
86	MANOJ GLASS WORKS	8700.00
87	G.K. GLASS INDUSTRIES	5000.00
88	LAGHU UDHYOG PAKAI BHATTI CHAMBER SAHAKARI SAMITI	3000.00
89	MODERN KANCH AUDHYOGIK SAHAKARI SAMITI LTD.	3800.00
90	BHAWANI GLASS WORKS	3500.00
91	EASTERN GLASS INDUSTRIES	3500.00
92	JAGDAMBA GLASS WORKS	16000.00
93	PAKAI BHATTI VIKAS SAHAKARI SAMATI LTD.	6500.00
94	PIONEER GLASS INDUSTRIES	6000.00
95	SHRI GOVIND GLASS WORKS	3900.00
96	SWASTIK GLASS ENTERPRISES	3000.00
97	VAISH GLASS WORKS	3500.00
98	AKASHDEEP POTTERY	4000.00
99	ALANKAR INDUSTRIES NO 2	3000.00
100	ANSAR GLASS WORKS	4000.00
101	ANUP GLASS INDUSTRIES	10500.00
102	DAMMAMAL NANNUMAL GLASS INDUSTRIES	15000.00
103	DAYALJI INDUSTRIES	5000.00
104	HODERIA BLOCK GLASS WORKS	5000.00
105	INDIAN GLASS WORKS	3000.00
106	INTERNATIONAL GLASS WORKS	4500.00
107	IRFAN GLASS WORKS	7000.00
108	J.P. GLASS INDUSTRIES	3000.00
109	LABOUR GLASS INDUSTRIES	4000.00
110	LALJI BOARD INDUSTRIES PRIVATE LIMITED	10000.00
111	NOVELTY GLASS WORKS	5000.00
112	OKAY GLASS INDUSTRIES	15000.00
113	PRAGATI INDUSTRIES	3500.00
114	SANTOSH GLASS WORKS	1000.00
115	SARASWATI BEADS INDUSTRIES	7000.00
116	SAROJINI NAIDU GLASS WORKS	4000.00
117	SHIVA INDUSTRIES	5000.00
118	SHRI RAGHAV GLASS WORKS	10000.00
119	SUNRISE GLASS WORKS	3000.00
120	THE NARAYAN GLASS WORKS	3500.00
121	UTTAM GLASS WORKS	4000.00
122	VENUS CHEMICAL INDUSTRIES	3000.00
123	VAIBHAV GLASS INDUSTRIES	10000.00
124	THE AMRIT GLASS WORKS	4000.00
125	MAHESH GLASS WORKS	12000.00
126	PITAMBER GLASS WORKS	16000.00
127	KAY CEE GLASS WORKS	18750.00
128	MODERN INDUSTRIES (FZB)	3500.00

129	A.M. PATEL GLASS INDUSTRIES	
130	BHAGWATI GLASS ENTERPRISES	4000.00
131	CAPRIHAN CHEMICAL GLASS WORKS	3750.00
132	ELECTRONIC GLASS INDUSTRIES	4000.00
133	ORIENTAL GLASS WORKS	15000.00
134	SHRI VARDHMAN PROJECTS (INDIA)	9000.00
135	THE GOLDEN GLASS WORKS (FZB)	3500.00
136	GIRDHARI LAL MANOHAR LAL GLASS WORKS	2500.00
137	N.U. GLASS WORKS	3000.00
138	QADRI GLASS WORKS	3000.00
139	CHANDRA GLASS BEADS INDUSTRIES	3000.00
140	NADAR BUX & CO GLASS WORKS	3000.00
141	G. NATH GLASS WORKS	4000.00
142	R.S. GLASS INDUSTRIES	4000.00
143	ARKEY GLASS WORKS	7000.00
144	BAPU INDUSTRIES	3000.00
145	FINE GLASS BEADS MANUFACTURER	4000.00
146	PLS AUTO SHELLS	9000.00
147	S. RAJEEV GLASS WORKS (P) LTD.	4000.00
148	AJAY GLASS WORKS	15000.00
149	MUKESH GLASS INDUSTRIES	2500.00
150	MEERA GLASS INDUSTRIES	3000.00
151	EXPRESS GLASS WORKS	35000.00
152	JAGDISH GLASS WORKS PVT. LTD.	3500.00
153	MILLENIUM GLASS INDUSTRIES	8000.00
154	SANJAY GLASS WORKS	14500.00
155	SARVODAYA GLASS INDUSTRIES	3000.00
156	NEELAM GLASS INDUSTRIES	3500.00
157	S.GOPAL INDUSTRIES	3700.00
158	JAYNA GLASS UDYOG	10000.00
159	NAVJIVAN GLASS INDUSTRIES	9000.00
160	SHIV CHARAN LAL AMBIKA PRASAD GLASS WORKS	3800.00
161	THE BANSAL ELECTRICAL IND.	4000.00
162	THE LIBERTY INDUSTRIES	3000.00
163	SHREE KRISHNA GLASS WORKS	6000.00
164	S.R.GLASS INDUSTRIES	1070.00
165	ADARSH GLASS WORKS	22000.00
166	FARUKHI GLASS INDUSTRIES	5000.00
167	FIROZABAD BLOCK GLASS ENTERPRISES	25000.00
168	NANNUMAL GLASS WORKS	15000.00
169	PARAS GLASSWARE PVT LTD	18000.00
170	VED GLASS INDUSTRIES	40000.00
171	GAURI SHANKER RAM GOPAL GLASS WORKS	3000.00
171	GAURI SHANKER RAM GOPAL GLASS WORKS	5000.00
172	JAIN BLOCK GLASS WORKS	5250.00

173	NATIONAL GLASS WORKS	3500.00
174	NEW BRIGHT GLASS WORKS (INDIA) PVT. LTD.	14500.00
175	S.B. GLASS WORKS	3000.00
176	CHANDRABHAN ANIL KUMAR GLASS WORKS	12000.00
177	DELUX GLASS INDUSTRIES	4000.00
178	AJANTA GLASS WORKS	6000.00
179	SUHAG NAGRI PAKAI BHATTI SEHKARI SAMITI	2000.00
180	CENTRE FOR THE DEVELOPMENT OF GLASS INDUSTRY	300.00
181	UNITED CHEMICAL INDUSTRIES	1000.00
182	KOHINOOR BANGLE INDUSTRIES	13000.00
183	SARASWATI GLASS INDUSTRIES	5500.00
184	MAHAVEER GLASS WORKS	6000.00
185	SAUBHAGYA GLASS INDUSTRIES	6000.00
186	K.S.MIRZA KHERATI BSD GLASS WORKS	3000.00
187	DINESH GLASS INDUSTRIES	4000.00
188	BHOORE KHAN SHAHBUDDIN KHAN GLASS B	4100.00
189	ELLORA GLASS INDUSTRIES	4000.00
190	NATIONAL GLASS INDUSTRIES	4000.00
191	SUBHASH NOVELTIES MEDICAL GOODS GLASS WORKS	3000.00

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### Stack emission details of Mathura Refinery (Oct'16)

Sr. No.	Stack Name	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )	PM (mg/Nm <sup>3</sup> )
1.	CDU	168.0	37.4	52.3
2.	VDU	426.0	221.0	36.3
3.	TPS- Boiler	48.5	65.9	25.1
4.	VBUI,II	625.0	231.0	30.2
5.	FCC- CH	514.0	159.0	44.5
6.	FCC-CO Boiler	878.0	378.0	58.9
8.	GT-I	7.1	69.0	8.9
9.	GT-II	6.9	66.4	9.2
10.	GT-III	6.3	71.0	8.2
11.	HGU-II	48	88.0	7.9
12.	SRU-A	2298.0	73.3	63.3
13.	SRU-B	2385.0	43.3	58.7
14.	SRU-C	2620.0	40.7	55.8
15.	SRU-D	2318.0	42.0	54.3
16.	OHCU-F1	16.2	59.0	9.2
17.	OHCU-F2	17.2	73.8	9.2
18.	NHT	5.9	35.0	8.8
19.	CCRU-I	28.5	68	7.8
20.	CCRU-II	23.2	69.0	9.4
21.	DHDS	41	126	9.5
22.	Prime G	4.3	51.3	3.5
23.	HGU-PDS	1.9	5.47	3.2
24.	BBU	4.71	17.8	3.0
25.	TGTU	10.9	8.4	6.8
26.	DHDT			
27.	HGU-I			

**Note :**

1. The above readings are spot readings. These are reported by CPCB approved agency M/s Ecomen Laboratories Pvt. Ltd.
2. All 27 stack emission measuring analyzers of SO<sub>2</sub>, NO<sub>x</sub>, CO and PM are up-linked to CPCB server.
3. Out of 4 SRUs, one is kept Standby & is put under operation as and when required.
4. DHDT & HGU -1 Furnaces not in operation



क्षेत्रीय कार्यालय, उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड  
Regional Office, Uttar Pradesh Pollution Control Board  
मकान सं०-3/5 वी, सेंक्टर-3, सुहाग नगर, फिरोजाबाद।

संदर्भ संख्या: 1305/सा०-44/16

दिनांक 16/12/16

सेवा में,

डा० मनोरंजन होता,  
सलाहकार,  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार,  
इन्दिरा पर्यावरण भवन,  
नई दिल्ली।

विषय- दिनांक 13.12.16 एवं 14.12.16 को आगरा/फिरोजाबाद के दौरान आप द्वारा दिये निर्देशों के क्रम में प्राकृतिक गैस कनेक्शन हेतु प्रतीक्षारत उद्योगों के स्टेटस के सम्बन्ध में।

महोदय,

कृपया दिनांक 13.12.16 एवं 14.12.16 को आगरा/फिरोजाबाद भ्रमण के दौरान आप द्वारा दिये गये निर्देशों के क्रम में ताज ट्रेपेजियम क्षेत्र के अन्तर्गत गैस आपूर्ति हेतु प्रतीक्षारत 43 उद्योगों का स्टेटस एवं अन्य ऐसे उद्योग, जो कि मा० उच्चतम न्यायालय की 825 की सूची व अन्य उद्योगों की सूची में अंकित हैं, का विवरण पत्र के साथ संलग्न कर प्रेषित किया जा रहा है।

उपरोक्त स्टेटस के सम्बन्ध में आपको यह भी अवगत कराना है कि 43 प्रतीक्षारत उद्योगों की सूची में 02 उद्योग क्रमशः नै० सन्त ग्लास वर्क्स एवं नै० लघु उद्योग पकाई भट्टी समिति गैस लि० द्वारा सद्य पर गैस आपूर्ति की सूचना न देने के कारण नुटिवश 43 की सूची में अंकित हो गये हैं। जबकि उक्त उद्योगों को टी०टी०जेड० अथॉरिटी की दिनांक 07.01.15 की सम्पन्न बैठक में लिये गये निर्णय से पूर्व ही गैस आपूर्ति की जा रही थी। इस प्रकार उक्त 02 उद्योगों का नाम प्रतीक्षारत सूची से हटाया जाना उचित होगा।

इस प्रकार उपरोक्त 43 उद्योगों में से अवशेष 41 प्रतीक्षारत उद्योगों के स्टेटस के अनुसार इनके उत्पादन की पुरानी क्षमता एवं आवंटित कोयले के सापेक्ष प्राकृतिक गैस की क्षमता के अनुरूप ही प्राकृतिक गैस की मांग की जा रही है, चूंकि उक्त उद्योगों द्वारा न तो उत्पादन क्षमता तथा न ही प्राकृतिक गैस की क्षमता का विस्तार किया जा रहा है। अतः महोदय से अनुरोध है कि मा० उच्चतम न्यायालय में दायर रिट याचिका संख्या 13381/84 में लिये गये निर्णय एवं मंशानुसार उक्त प्रतीक्षारत उद्योगों को प्राकृतिक गैस की आपूर्ति किया जाना उचित होगा।

इसके अतिरिक्त पत्र के साथ संलग्न 02 उद्योगों का स्टेटस संलग्न किया है। उसमें से नै० फिरोजाबाद मनोहर लाल ग्लास वर्क्स को टी०टी०जेड० की बैठक दिनांक 07.01.15 से पूर्व ही गैस लि० द्वारा गैस आपूर्ति दी जा रही थी। उक्त बैठक में लिये गये निर्णय के कारण इकाई की सहमति जारी नहीं की जा रही है। चूंकि उद्योगों को टी०टी०जेड० की उक्त बैठक से पूर्व गैस आपूर्ति की जा रही है। अतः उक्त उद्योगों की जल एवं वायु सहमति दिया जाना उचित होगा।

इसके साथ ही दूसरा उद्योग नै० शिव चायना ग्लास वर्क्स को माननीय उच्चतम न्यायालय में दायर एस०एल०पी० न० 2844/2010 के क्रम में माननीय न्यायालय द्वारा गैस आपूर्ति किये जाने के निर्देश दिये गये थे परन्तु टी०टी०जेड० की उक्त बैठक में लगे प्रतिबंध के कारण उक्त उद्योग को गैस आपूर्ति प्राप्त नहीं हो सकी है। जिससे मा० उच्चतम न्यायालय के आदेशों को अनुपालन नहीं हो सका है। कृपया इस सम्बन्ध में भी निर्णय लेने का कष्ट करें।

क्रमशः .....2.....

(2)

अतः महोदय से अनुरोध है कि पत्र में वर्णित स्टेटस/तथ्यों को दृष्टिगत रखते हुए तदनुसार उद्योगों के सम्बन्ध में निर्णय लेने का कष्ट करें।

संलग्नक-उपरोक्तानुसार।

भवदीय



(डा० विश्वनाथ रामजी)  
क्षेत्रीय अधिकारी(प्रभारी)

प्रतिलिपि- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1. आयुक्त, आगरा मण्डल, आगरा/अध्यक्ष, टी०टी०जेड० अथॉरिटी, आगरा।
2. उपाध्यक्ष, आगरा विकास प्राधिकरण, आगरा/सदस्य संयोजक, टी०टी०जेड० अथॉरिटी, आगरा।
3. सदस्य सचिव, उ०प्र० प्रदूषण नियन्त्रण बोर्ड, लखनऊ।
4. जिलाधिकारी, फिरोजाबाद।
5. संयुक्त आयुक्त उद्योग, आगरा मण्डल, आगरा।
6. मुख्य पर्यावरण अधिकारी, वृत्त-4, उ०प्र० प्रदूषण नियन्त्रण बोर्ड, लखनऊ।
7. उपायुक्त उद्योग, जिला उद्यम एवं प्रोत्साहन केन्द्र, फिरोजाबाद।
8. क्षेत्रीय अधिकारी/नोडल, उ०प्र० प्रदूषण नियन्त्रण बोर्ड, आगरा।



क्षेत्रीय अधिकारी(प्रभारी)

dc

LIST OF 43 INDUSTRIES ALONG WITH THEIR HOLDING CAPACITY awaited for Gas supply not permitted in TTZA meeting dated 07.01.15. IN TTZ AREA OF DISTT. FIROZABAD.

S.No.	Name & Address of Industries	District	Change in Name	Shifted to	Date of production	Op. Status	SIZE OF COAL FIRED FURNACE & COAL FIRED FURNACE DETAIL	SIZE OF GAS FIRED FURNACE INSTALLED/PROPOSED FURNACE DETAIL	HOLDING CAPACITY OF COAL FIRED FURNACE (T/DAY)	HOLDING CAPACITY OF GAS FIRED FURNACE (T/DAY)	Security Deposited in GAIL for Meter Skid (Yes/No)	UP/PCB Issued /Letter regarding connection STATUS	REMARK
1	Ambica Pottery & Refractories, Agra Road	Firozabad	Ambica Refractories & Allied		1977	CL	8 800 Min (Dia 24)	10 Pottery ware furnace	9 3.5	11	13	13	14 Gas Meter Skid not installed
2	Anuradha Industries Nai Bassi	Firozabad		Deedanai, Bantia Rd	1972	CL	10.2 Pot (13Pot 15Mun) Pot (17Pot 15Mun)	7.2 Pot 1 (9 Pot 20 Mun)		No	No	NOC G	Gas Meter Skid not installed
3	Ransal Chemical Industries, Dholpura, Agra Road	Firozabad			1978	CL	2.3 Pot (6 Pot)	2.5 Zinc Oxide Furnace		Yes	Yes	NOC G	Gas Meter Skid not installed
4	Chandra Glass works, Dholpura, Agra Road	Firozabad	Chandra Glass Industries	Moza Dholpura	1970	CL	32.69 Tank (15x12.5x3ft) Pot (11Pot 14Mun)	32 Tank 1 (15x10x3 ft)		No	No	NOC G	Gas Meter Skid not installed
5	Deepak Chemical Industry Jalesar Road	Firozabad	Deepak Chemicals	Murli Nagar	1978/03	CL	3 Iron Oxide Furnace	3 Zinc Oxide Furnace		Yes	Yes	NOC G	Gas Meter Skid not installed
6	Empire Glass Industries, Mainpur Gate	Firozabad		B12, UPSID C, Jalesar Road	1994	CL	97.16 Tank (15x13.5x3ft) Tank (15x13.5x3ft) Pot (14Pot 14Mun)	19.1 Tank 1 (15x6x3ft)		No	No	NOC G	Gas Meter Skid not installed
7	Ganga Glass Industries, Makhdumpur	Firozabad		372 dholpura	1992/14	CL	103.14 Tank (15x15x3ft) Tank (15x17x3ft)	53.96 Tank 1 (20x8x3ft)		Yes	Yes	NOC G	Gas Meter Skid not installed

(V.K. Duttay)  
 11.01.15  
 (A. Vishwanath Sharma)  
 (R.P.C.)  
 (R.P.C.)

List of ind cover in 13341 for upasa - 07.01.15



Sl. No.	Industry Name	Location	Address	Year	CL	Tank / Pot	Capacity	Per 1	2-5	No	NOC G	Gas Meter Skid
8	Himé Chemical Industry Navinda Makhanpur	Firozabad	-	1979	CL	Tank (18x5x3ft) Tank (8x5x3ft)	25.36				NOC G	Gas Meter Skid not installed
9	Indra Beeds Industries (Sirmagan)	Firozabad	-	1971	CL	Pot (6 Pot 12 Man)	2.88			Yes	GAS LETTER	Gas Meter Skid not installed
10	Jindal Refractories Bypass Road	Firozabad	-	1972	CL	Pot (12 Pot 18 Man)	7.2	Tank 1 (8x5x2.5 ft)	7.07	Yes	GAS LETTER	Gas Meter skid installed but supply not start.
11	Kara Chhal PK. BHT. Corl. works Co. St. Ltd. Sadar Bazar	Firozabad	K.No. 95/1, Afsabad	1960	CL	Pakai Bhatti - 18	-			Yes	NOC G	Pakai Bhatti Shifted / Converted as per ITZ Authority Order. Gas meter skid not installed.
12	K.B. Glass Works. Mainpuri Gate,	Firozabad	-	-	CL	Pot 1 (5 Pot 13 Man)	4.32	Tank 1 (8x5x2ft)	2.0	No	NOC G	Furnace, closed
13	Laxmi Glass Works Station Road	Firozabad	-	1975	CL	Pot 1 (12 Pot 25 Man) Pot 1 (4 Pot 25 Man)	16	Tank 1 (10x7x3ft)	14.09	Yes	NOC G	Gas Meter Skid not installed
14	Laghu Udyog PK. Bht. Chamber CHK Gate Sheetal Khan	Firozabad	D-4, 5, UDSIDC, Jale shar rd	-	OP	Pakai Bhatti - 24	-			Yes	NOC G	Pakai Bhatti Shifted / Converted as per ITZ Authority Order. Gas supply started before 07.01.2015. (Pakai Bhatti Unit)
15	Narainmal Virendra kumar Mittal Glass Industries, Nai Basti	Firozabad	N.V. Glass Industry	1978	CL	Pot 1 (9 Pot 16 Man)	5.76	Pot 1 (12 Pot 12 Man)	5.76	Yes	NOC G	Gas Meter Skid not installed
16	Neari Glass Works Hazipura	Firozabad	-	1964	CL	Pot 1 (10 Pot 14 Man)	5.6	Pot 1 (10 Pot 12 Man)	4.8	Yes	NOC G	Gas Meter Skid not installed
17	Northern Glass Works Makhanpur	Firozabad	Dholpura Agra Road	1985	CL	Tank 1 (18x20x3.5ft) Pot 1 (10 Pot 18 Man)	96.34	Pot 1 (12 Pot 12 Man)	5.76	No	NOC G	Gas Meter Skid not installed

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No.	Popular Glass Works, BHRID (Firozabad S.T. John's School)	1972	CL	Tank (12x18x30) Pot (12 Pot 7Min)	5.76	Yes	GAS LETTER	Gas Meter Skid not installed
19	Rajdhani Glass Works Station Road	1969	CL	Pot (12 Pot 12Min)	5.76	No	NOC G	Gas Meter Skid not installed
20	Supreme Glass Works Purshotam Nagar	1973	CL	Pot (12 Pot 12Min)	5.76	Yes	GAS LETTER	Gas Meter Skid not installed
21	Sushila Glass Works, Makhanpur	1994/09	OP	3 Tank (18x13x3 ft) Pot (10 Pot 14 Min)	27	Yes	GAS LETTER	Gas Meter Skid not installed
22	Shakti Glass Industries B.R. Ambedkar Road	1967	CL	Pot (14 Pot 25Min)	14	No	NOC G	Gas Meter Skid not installed
23	Sunny Potteries, Mainpuri Gazi	1972	CL	Pot (14 Pot 25Min)	14	No	NOC G	Gas Meter Skid not installed
24	Soni Glass Industry, Nai Basti, Jalesar	1981	CL				NOC G	Gas Meter Skid not installed
25	Shri Saty Glass Works Lalau Agra Road	1966	OP	Pot (12 Pot 12 Min) Pot (6 Pot 12 Min)	8.64	No	NOC G	Gas Meter skid not installed
26	Taj Glass Industries Sheetal Khan	1966	CL	Pot (6 Pot 1)	1.2	Yes	NOC G	Gas supply started before 07.01.2015. (Glass & Glassware installed)
27	The Central Sabiri Gl. Works S.N. Road	1945	CL	Tank (4x4x2ft) Pot (12 Pot 12Min)	8.02	Yes	NOC G	Gas Meter Skid not installed
28	Pakal Bhatti Hijaani Sahkari Samiti, in front of P.S. Raoolpur,	1995	CL	Pakal Bhatti 37		Yes	GAS LETTER	Gas Meter Skid not installed

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(R.K. Thakur) w.e 210.7 with  
 A.M. (V.K. Dubey) (Dr. Vishwanath Sharma)  
 S.K.P. A.E.E. Rd (H.C.)  
UPPCB

LIST OF 43 INDUSTRIES ALONG WITH THEIR HOLDING CAPACITY awaited for Gas supply, not Permitted in TTZA meeting dated 07.01.15. IN TTZ AREA OF DISTT. FIROZABAD.

No.	Name & Address of Industries	District	Change in Name	Shifted to	Date of production	Op. Status	SIZE OF COAL FIRED FURNACE & COAL FIRED FURNACE DETAIL		SIZE OF GAS FIRED FURNACE INSTALLED/PROPOSED FURNACE DETAIL	HOLDING CAPACITY OF GAS FIRED FURNACE (T/DAY)	Security Deposited in GAIL for Meter Skid (Yes/No)	UPPCB NOC Issued /Letter regarding GAS connection STATUS	REMARK
							COAL FIRED FURNACE CAPACITY (T/DAY)	COAL FIRED FURNACE DETAIL					
1													
28	Abwab Glass Works Hazipura	Firozabad		Daedamni	1949	CL	4 Post (12 Post 12Mun)	9 5.76	10	11	12	13	14
30	Balveer Glass Works, Dajamni, Asfabad Road	Firozabad			1974	CL							
31	Hind Glass Works Masroor	Firozabad			1981	CL							
32	Hindustan Glass Works	Firozabad			1983	CL							
33	Byepass Road, Laxmi Glass Industries, Makkhanpur	Firozabad		AL. A2, UPSIDC, JALESAR ROAD, FIROZABAD	1985	CL	Tank (18x15x3.5 feet) Post (5 Post 10 Mini)	62.5					
34	Malleshwari Modi Udyog Karhala	Firozabad		FIROZABAD Z. Dhopura, Bandiarwali Pulia	1971	CL	Post (6 Post)						
35	Nairi Glass Works Bypass Road	Firozabad			1979	CL	Post (9 Post 12 Mini)	4.32					
36	Rakeshwar Dayal Glass Works Coal Siding	Firozabad		Milk Khanjapur	1961	CL	Post (12 Post 12 Mini)	5.76					
37	Rusam Glass Works Islam	Firozabad			1958	CL	Post (12 Post 12 Mini)	5.28					
38	(Ganj) S.M. Refractories, Deedamni	Firozabad			1974	CL	Tank (12x16x1.25 feet) Tank (12x16x1.25 feet)	59.43					

W.A. (10/1/15)  
1:30 P.M.

W.A. (10/1/15)  
1:30 P.M.

W.A. (10/1/15)  
1:30 P.M.

List sheets cover in 1335 for update - 07.01.15

Sl. No.	Sandeep Industries, C.I.S Ind Estate	Firozabad	Sandeep Industries.	C-16, Industrial State	1979	CL	01/11/81 (11/11/81)			GAS LETTER	Gas Meter Skid not installed
40	Sheela Potteries, Mouda, Afsabad	Firozabad		Dholpura Agra Road	1976	CL	D.D. Kish 16 dia			NOC/HO Sent	Gas Meter Skid not installed
41	Shri Shiv Glass Works Chandwar Gate	Firozabad		UPSIDC Jalesar road	1958	CL	1/11/81 (1/11/81)	4.8		NOC RETURN	Furnace not installed
42	Himalay Kutir Udyog Assn. S.N. Road	Firozabad	Himalay Kutir Udyog Sahakari Samiti Ltd.	Deedarnai, Bamba Rd.		CL	1/11/81 Bhandi - 31		No	NOC RETURN	NOC applied for shifting
43	Kara Bangle Assn. FZB, Vakulpura Sabzi Mian	Firozabad		Deedarnai, Afsabad	1981	CL	1/11/81 Bhandi		No	NOC RETURN	NOC applied for shifting

with  
Rohit  
UPPLS

WMS-E  
ABE  
U.P. P.C.B.

147.85

(CR. C. H. P. D.)  
(CR. C. H. P. D.)

INDUSTRY IN THE LIST OF 625 INDUSTRIES ALONG WITH ITS HOLDING CAPACITY TO WHOM HON'BLE SUPREME COURT PASSED ORDER TO SUPPLY GAS IN TTZ AREA OF DISTT. FIROZABAD.

S.No.	Name & Address of Industries	District	Change in Name	Shifted to	Date of production	SIZE OF COAL FIRED FURNACE & COAL FIRED FURNACE HOLDING CAPACITY OF COAL FIRED FURNACE (T/DAY)	SIZE OF GAS FIRED FURNACE INSTALLED/PROPOSED FURNACE DETAIL	HOLDING CAPACITY OF GAS FIRED FURNACE (T/DAY)	Security Deposited in GALL for Meter Skid (Yes/No)	UPPCB NO. Issued /Letter regarding GAS connection STATUS	REMARK
1	Shiv Chima, Coal Siding Road,	Firozabad		D-27, UPSIDC, Jalesar road	1975	8 Tank 1 (10x10x3.5ft) Pot 1 (12 Pot 3 Min)	10 Tank 1 (10x10x3.5ft)	24.76	No	12 Refused due to order dated 07.01.15 of TTZA	13 Gas Meter Skid not installed/ Hable Superin Court order for Gas supply to the Industries

W.E.  
C.V. K. Dubey  
AEE  
U.P.P.C.B.

22/11  
H. Vichavats Sharma  
Ro (I/C)  
UPPCB

*[Signature]*  
C.R. K. Pathak  
A.M.  
D.I.C, F2D

GLASS BANGLES DECORATION UNIT IN THE LIST OF 628 INDUSTRIES ALONG WITH ITS HOLDING CAPACITY, GAS SUPPLY STARTED BEFORE TITZ meeting dated 07.01.15. IN TITZ AREA OF DISTT. FIROZABAD.

S.No.	Name & Address of Industries	District	Change in Name	Shifted to	Date of production	Op. Status	SIZE OF COAL FIRED FURNACE & COAL FIRED FURNACE HOLDING		SIZE OF GAS FIRED FURNACE INSTALLED/PROPOSED FURNACE DETAIL	HOLDING CAPACITY OF GAS FIRED FURNACE (T/DAY)	Security Deposited in GAIL for Meter Skid (Yes/No)	UPPER NOC Issued / Letter regarding GAS connection STATUS	REMARK
							DETAIL	DETAIL					
1	Girdhari Lal Manohar Lal Glass Works, Raja Ka Tal	3 Firozabad	4	5 C-12, Ind. Estate, Firozabad	6 1959/07	7 OP	8 Tank (14.5x12.5x3.5ft) Pot (110Pet 12Min)	9 49.68	10 Baking Furnace - 3 (each 48)	11	12 Yes	13 NOC	14 Gas supply started before 07.01.2015. (Glass bangle Decoration Unit)

CR. K. Pathak  
 A.M.  
 DTC/ASD  
  
 WAE  
 AEE  
 U.P.C.B.  
  
 V.S.  
 Dr. Vikram Singh Sharma  
 R.O.H.S.  
 U.P.C.B.

Station wise annual average AAQM Data of pollutants at 04 GPCB Monitoring Stations in AGRA								
Monitoring Stations→	Tajmahal				Etmad-ud-daulah			
Parameters→ Years↓	SO <sub>2</sub>	NO <sub>2</sub>	PM10	SPM	SO <sub>2</sub>	NO <sub>2</sub>	PM10	SPM
2002	5	22	147	376	5	25	174	483
2003	4	22	145	352	5	27	192	457
2004	5	18	133	309	6	26	179	519
2005	9	22	147	306	10	25	186	417
2006	6	22	133	316	7	24	214	401
2007	6	23	167	296	5	27	203	377
2008	7	22	167	304	7	29	213	381
2009	6	20	157	334	5	25	186	428
2010	5	20	167	333	4	23	183	419
2011	4	20	149	290	4	24	166	413
2012	5	18	178	332	4	22	183	422
2013	4	17	153	275	4	23	174	352
2014	4	15	152	277	4	21	190	340
2015	4	16	166	298	4	25	186	348
Monitoring Stations→	Rambagh				Nunhai			
Parameters→ Years↓	SO <sub>2</sub>	NO <sub>2</sub>	PM10	SPM	SO <sub>2</sub>	NO <sub>2</sub>	PM10	SPM
2002	5	27	175	467	5	33	234	675
2003	4	22	184	468	4	34	267	614
2004	6	23	198	541	6	34	279	675
2005	8	25	185	390	11	34	268	607
2006	7	25	278	431	7	34	306	637
2007	5	25	203	439	5	37	274	584
2008	5	25	173	407	6	38	216	514
2009	5	25	160	427	5	36	255	662
2010	4	25	157	398	5	34	246	530
2011	4	25	160	374	5	34	205	501
2012	4	25	180	416	5	34	238	554
2013	4	25	181	338	5	35	227	472
2014	5	24	175	341	5	33	212	441
2015	4	26	167	339	4	34	212	434

Note: all values are in  $\mu\text{g}/\text{m}^3$   
Annual Average Standard: SO<sub>2</sub>: 20  $\mu\text{g}/\text{m}^3$ , NO<sub>2</sub>: 30  $\mu\text{g}/\text{m}^3$ , RSPM (PM10): 60  $\mu\text{g}/\text{m}^3$

**CPCB-AAQM Monthly Data-2016**

Monitoring Stations→	Tajmahal					Itmad-ud-daulah					
	SO <sub>2</sub>	NO <sub>2</sub>	PM2.5	PM10	SPM	SO <sub>2</sub>	NO <sub>2</sub>	PM2.5	PM10	SPM	
2016	Jan	5	25	185	292	450	5	30	366	557	
	Feb	5	21	125	194	333	6	38	228	427	
	Mar	5	18	71	157	313	5	26	189	381	
	Apr	5	19	67	229	468	5	27	88	213	461
	May	4	16	67	186	424	4	21	88	202	555
	Jun	4	10	59	107	269	4	17	56	122	314
	Jul	4	13	11	38	91	4	16	26	52	131
	Aug	4	10	21	29	69	4	12	24	41	106
	Sept	4	11	27	55	138	4	17	36	62	163
	Oct	4	18	96	188	370	4	29	95	257	412
Nov	5	28	192	282	463	5	36	216	374	581	
Monitoring Stations→	Rambagh					Nunhai					
Parameters→ Months↓	SO <sub>2</sub>	NO <sub>2</sub>	PM2.5	PM10	SPM	SO <sub>2</sub>	NO <sub>2</sub>	PM2.5	PM10	SPM	
2016	Jan	5	37	197	266	456	6	50	251	357	574
	Feb	5	29	123	194	374	6	45	124	277	515
	Mar	5	27	65	213	388	6	37	80	189	475
	Apr	6	32	76	224	559	4	38	93	393	644
	May	4	24	74	185	431	4	30	69	227	454
	Jun	4	21	50	105	316	5	28	71	162	494
	Jul	4	25	25	51	138	4	33	44	78	153
	Aug	4	17	14	36	105	4	20	38	66	155
	Sept	--	--	--	--	--	4	24	39	90	138
	Oct	--	--	--	--	--	4	40	97	307	586
Nov	--	--	--	--	--	5	45	187	415	649	

Note: all above monthly average values are in  $\mu\text{g}/\text{m}^3$ , -- Rambagh monitoring station could not operate due to electricity problem.

**Annual Average Standard:**  
 SO<sub>2</sub>: 20  $\mu\text{g}/\text{m}^3$   
 NO<sub>2</sub>: 30  $\mu\text{g}/\text{m}^3$   
 PM10: 60  $\mu\text{g}/\text{m}^3$   
 PM2.5: 40  $\mu\text{g}/\text{m}^3$

**24hrly Average Standard:**  
 SO<sub>2</sub>: 80  $\mu\text{g}/\text{m}^3$   
 NO<sub>2</sub>: 80  $\mu\text{g}/\text{m}^3$   
 PM10: 100  $\mu\text{g}/\text{m}^3$   
 PM2.5: 60  $\mu\text{g}/\text{m}^3$



## Annual average mean of Ambient Air Quality Data at CDGI Station Road, Firozabad

Period	Month	Station	Year	ANNUAL AVERAGE Value (ug/m <sup>3</sup> )			
				SO <sub>2</sub>	NO <sub>x</sub>	RSPM	SPM
Jan. 95 - Dec. 95	4	CDGI	1995	32.85	37.00	-	466.00
Jan. 96 - Dec. 96	11	CDGI	1996	16.77	30.46	-	471.20
Jan. 97 - Dec. 97	11	CDGI	1997	16.00	30.67	-	485.27
Jan. 98 - Dec. 98	12	CDGI	1998	22.67	34.83	-	465.00
Jan. 99 - March 99	3	CDGI	1999	21.67	38.33	-	609.33
Jan. 00 - Dec. 00	3	CDGI	2000	21.67	39.33	-	484.67
Jan. 01 - May 01	5	CDGI	2001	22.00	41.00	-	556.40
Jan. 04 - Dec. 04	4	CDGI	2004	25.25	33.00	-	472.00
Jan. 05 - Dec. 05	12	CDGI	2005	22.00	31.17	-	411.50
Jan. 06 - Dec. 06	12	CDGI	2006	22.08	34.83	-	454.17
Jan. 07 - Dec. 07	12	CDGI	2007	22.00	34.50	198.90	463.08
Jan. 08 - Dec. 08	12	CDGI	2008	24.58	35.08	229.58	492.75
Jan. 09 - Dec. 09	12	CDGI	2009	23.42	33.50	204.33	410.17
Jan. 10 - Dec. 10	11	CDGI	2010	18.36	35.00	218.27	431.45
Jan. 11 - Dec. 11	12	CDGI	2011	13.33	39.92	225.92	426.37
Jan. 12 - Dec. 12	12	CDGI	2012	13.75	32.25	219.92	356.25
Jan. 13 - Dec. 13	12	CDGI	2013	12.75	32.58	266.42	405.83
Jan. 14 - Dec. 14	12	CDGI	2014	12.66	34.08	320.00	451.58
Jan. 15 - Dec. 15	12	CDGI	2015	8.90	29.75	196.50	317.5

STANDARD: Arithmetic mean for Ecologically Sensitive Area (notified by Central Government)  
(As per National Ambient Air Quality Standard dated - 18th Nov. 2009)

	Annual Average	24 Hrs Average
SO <sub>2</sub>	20 $\mu$ g/m <sup>3</sup>	80 $\mu$ g/m <sup>3</sup>
NO <sub>x</sub>	30 $\mu$ g/m <sup>3</sup>	80 $\mu$ g/m <sup>3</sup>
RSPM	60 $\mu$ g/m <sup>3</sup>	100 $\mu$ g/m <sup>3</sup>

Annual average mean of Ambient Air Quality Data at Tilak Nagar, Firozabad

Period	Month	Station	Year	ANNUAL AVERAGE Value ( $\mu\text{g}/\text{m}^3$ )			
				SO <sub>2</sub>	NO <sub>x</sub>	RSPM	SPM
Sep. 95 - Dec. 95	4	TILAK NAGAR	1995	29.09	35.50	-	449.75
Jan. 96 - Dec. 96	11	TILAK NAGAR	1996	14.37	31.49	-	484.18
Jan. 97 - Dec. 97	11	TILAK NAGAR	1997	13.73	34.36	-	411.27
	12	TILAK NAGAR	1998	22.00	37.83	-	394.00
Jan. 99 - March 5	3	TILAK NAGAR	1999	21.00	45.67	-	483.87
Oct. 00 - Dec. 00	3	TILAK NAGAR	2000	21.33	38.33	-	430.00
Jan. 01 - May 01	5	TILAK NAGAR	2001	22.50	43.40	-	485.80
Sep. 04 - Dec. 04	4	TILAK NAGAR	2004	19.25	26.75	-	419.50
Jan. 05 - Dec. 05	12	TILAK NAGAR	2005	20.42	28.33	-	377.00
Jan. 06 - Dec. 06	12	TILAK NAGAR	2006	17.75	27.75	-	363.92
Jan. 07 - Dec. 07	12	TILAK NAGAR	2007	18.08	27.75	174.70	380.17
Jan. 08 - Dec. 08	12	TILAK NAGAR	2008	19.92	28.67	193.92	411.25
Jan. 09 - Dec. 09	12	TILAK NAGAR	2009	19.57	30.50	188.83	362.00
Jan. 10 - Dec. 10	11	TILAK NAGAR	2010	15.18	33.09	204.64	409.00
Jan. 11 - Dec. 11	12	TILAK NAGAR	2011	11.08	35.00	207.92	388.58
Jan. 12 - Dec. 12	12	TILAK NAGAR	2012	12.25	29.83	205.75	342.50
Jan. 13 - Dec. 13	12	TILAK NAGAR	2013	11.92	30.67	241.75	379.25
Jan. 14 - Dec. 14	12	TILAK NAGAR	2014	11.58	32.33	285.42	403.00
Jan. 15 - Dec. 15	12	TILAK NAGAR	2015	9.1	31.3	212.20	312.75

STANDARD: Arithmetic mean for Ecologically Sensitive Area (notified by Central Government)  
(As per National Ambient Air Quality Standard dated - 18th Nov. 2006)

		Annual Average	24 Hrs Average
1	SO <sub>2</sub>	20 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
2	NO <sub>x</sub>	30 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
3	RSPM	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$

Annual average mean of Ambient Air Quality Data at Raja Ka Tal, Firozabad

Period	Month	Station	Year	ANNUAL AVERAGE Value (ug/m <sup>3</sup> )			
				SO <sub>2</sub>	NO <sub>x</sub>	RSPM	SPM
Sep. 95 - Dec. 95	4	RAJA KA TAL	1995	15.65	22.38	-	341.75
Jan. 96 - Dec. 96	11	RAJA KA TAL	1996	11.17	26.46	-	310.27
Jan. 97 - Dec. 97	11	RAJA KA TAL	1997	14.18	36.82	-	339.55
Jan. 98 - Dec. 98	12	RAJA KA TAL	1998	22.92	34.75	-	314.17
Jan. 99 - March 99	3	RAJA KA TAL	1999	23.00	40.00	-	466.67
Oct. 00 - Dec. 00	3	RAJA KA TAL	2000	22.00	39.67	-	415.33
Jan. 01 - May 01	5	RAJA KA TAL	2001	22.20	42.40	-	433.00
Sep. 04 - Dec. 04	4	RAJA KA TAL	2004	20.50	34.25	-	331.75
Jan. 05 - Dec. 05	12	RAJA KA TAL	2005	19.25	28.25	-	367.17
Jan. 06 - Dec. 06	12	RAJA KA TAL	2006	18.33	30.00	-	399.75
Jan 07 - Dec. 07	12	RAJA KA TAL	2007	19.42	29.50	163.90	378.08
Jan, 08 - Dec. 08	12	RAJA KA TAL	2008	22.08	31.75	216.33	461.67
Jan. 09 - Dec. 09	12	RAJA KA TAL	2009	21.92	32.75	196.17	388.92
Jan. 10 - Dec. 10	11	RAJA KA TAL	2010	14.91	31.36	195.00	390.90
Jan. 11 - Dec. 11	12	RAJA KA TAL	2011	12.08	35.92	203.08	368.08
Jan. 12 - Dec. 12	12	RAJA KA TAL	2012	12.92	31.16	201.25	335.92
Jan. 13 - Dec. 13	12	RAJA KA TAL	2013	12.17	31.00	235.00	355.83
Jan. 14 - Dec. 14	12	RAJA KA TAL	2014	12.25	33.00	300.66	416.75
Jan. 15 - Dec. 15	12	RAJA KA TAL	2015	9.00	29.50	201	308.25

**STANDARD:** Arithmetic mean for Ecologically Sensitive Area (notified by Central Government)  
(As per National Ambient Air Quality Standard dated - 18th Nov. 2009)

		Annual Average	24 Hrs Average
1	SO <sub>2</sub>	20µg/m <sup>3</sup>	80µg/m <sup>3</sup>
2	NO <sub>x</sub>	30µg/m <sup>3</sup>	80µg/m <sup>3</sup>
3	RSPM	60µg/m <sup>3</sup>	100µg/m <sup>3</sup>

REGIONAL OFFICE  
U.P. POLLUTION CONTROL BOARD  
FIROZABAD  
YEAR 2015

MONTHLY ARITHMETIC MEAN VALUES  
AT AMBIENT AIR QUALITY MONITORING STATION

AT C.D.G.I. (CENTRE FOR DEVELOPMENT OF GLASS INDUSTRIES), FIROZABAD

MONTH	SULPHUR DIOXIDE (SO <sub>2</sub> )	OXIDES OF NITROGEN (NO <sub>x</sub> )	RESPIRABLE SUSPENDED PARTICULATE MATTER (R.S.P.M.)	SUSPENDED PARTICULATE MATTER (S.P.M.)
Jan. 15	10	38	300	448
Feb. 15	9	38	310	464
Mar. 15	9	37	251	381
April 15	8	37	270	487
May 15	9	35	234	354
June 15	8	36	205	308
July 15	8	25	112	173
Aug 15	6	23	91	138
Sept 15	7	25	111	168
Oct 15	10	33	226	338

NOTE : 1- All Values are in  $\mu\text{g}/\text{m}^3$   
2- Ambient Air Quality Data Monitored By- CDGI, Firozabad

STANDARD: Arithmetic mean for Ecologically Sensitive Area (notified by Central Government)  
(As per National Ambient Air Quality Standard Notification No. 217 dated - 18th Nov, 2009)

		Annual Average	24 Hrs Average
1	SO <sub>2</sub>	20 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
2	NO <sub>x</sub>	30 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
3	RSPM	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$

REGIONAL OFFICE  
U.P. POLLUTION CONTROL BOARD  
FIROZABAD  
YEAR 2016

MONTHLY ARITHMETIC MEAN VALUES  
AT AMBIENT AIR QUALITY MONITORING STATION

AT TILAK NAGAR, FIROZABAD

MONTH	SULPHUR DIOXIDE (SO <sub>2</sub> )	OXIDES OF NITROGEN (NO <sub>x</sub> )	RESPIRABLE SUSPENDED PARTICULATE MATTER (R.S.P.M.)	SUSPENDED PARTICULATE MATTER (S.P.M.)
Jan. 16	9	37	303	455
Feb. 16	9	39	297	446
Mar. 16	9	36	243	369
April 16	9	36	264	398
May 16	8	34	232	348
June 16	9	35	196	293
July 16	7	25	107	164
Aug 16	6	25	89	142
Sept 16	7	25	109	165
Oct 16	9	30	236	354

NOTE :

- 1- All Values are in  $\mu\text{g}/\text{m}^3$
- 2- Ambient Air Quality Data Monitored By- CDGI, Firozabad

STANDARD:

Arithmetic mean for Ecologically Sensitive Area (notified by Central Government)  
(As per National Ambient Air Quality Standard Notification No. 217  
dated - 18th Nov. 2009)

		Annual Average	24 Hrs Average
1	SO <sub>2</sub>	20 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
2	NO <sub>x</sub>	30 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
3	RSPM	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$

REGIONAL OFFICE  
U.P. POLLUTION CONTROL BOARD  
FIROZABAD  
YEAR 2016

MONTHLY ARITHMATIC MEAN VALUES  
AT AMBIENT AIR QUALITY MONITORING STATION

AT RAJA KA TAL, FIROZABAD

MONTH	SULPHUR DIOXIDE (SO <sub>2</sub> )	OXIDES OF NITROGEN (NO <sub>x</sub> )	RESPIRABLE SUSPENDED PARTICULATE MATTER (R.S.P.M.)	SUSPENDED PARTICULATE MATTER (S.P.M.)
Jan. 16	9	39	298	445
Feb. 16	10	39	302	450
Mar. 16	9	38	275	423
April 16	9	37	261	395
May 16	8	36	241	365
June 16	9	37	203	305
July 16	7	24	109	165
Aug 16	5	22	90	135
Sept 16	6	24	108	154
Oct 16	9	31	220	330

**NOTE :**

- 1- All Values are in  $\mu\text{g}/\text{m}^3$
- 2- Ambient Air Quality Data Monitored By- CDGL Firozabad

**STANDARD:**

Arithmetic mean for Ecologically Sensitive Area (notified by Central Government)  
(As per National Ambient Air Quality Standard Notification No. 217  
dated - 18th Nov. 2009)

		Annual Average	24 Hrs Average
1	SO <sub>2</sub>	20 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
2	NO <sub>x</sub>	30 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
3	RSPM	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$

## Ambient Air Quality Monitoring Report (Oct'15 –Sept'16)

Sampling &amp; Analysis by CPCB approved agency M/s Mantec Consultants

Inside Refinery (Average concentration in  $\mu\text{g}/\text{m}^3$ )

## A. Oct'15 –Dec'15

Parameters	Limit	Oct'15	Nov'15	Dec'15
PM10	100	91.9	89.8	90.2
PM (<2.5mm),	60	35.3	26.0	37.0
SO2	80	15.2	16.1	16.8
NOX	80	24.1	24.0	25.1
AMMONIA	400	42.1	42.1	46.6
OZONE	100*	35.3	28.3	32.3
CO (mg/m3)	2000*	813.3	822.1	824.6
BENZENE	5**	ND	ND	ND
BENZO(a)PYRENE (as BaP), Particulate Phase, (ng/m3)	1**	ND	ND	ND
LEAD	1.0	ND	ND	ND
ARSENIC (ng/m3)	6**	ND	ND	ND
NICKEL (ng/m3)	20**	ND	ND	ND

\* 8 hrs basis

\*\* Annual basis

## B. Jan'16 –Mar'16

Parameters	Limit	Jan'2016	Feb'2016	Mar'2016
PM10	100	86.4	91.4	93.3
PM (<2.5mm),	60	39.0	40.7	43.3
SO2	80	13.1	22.5	17.7
NOX	80	20.4	27.7	25.8
AMMONIA	400	41.4	43.1	45.8
OZONE	100*	34.7	33.3	36.0
CO (mg/m3)	2000*	847.5	868.3	874.2
BENZENE	5**	ND	ND	ND
BENZO(a)PYRENE (as BaP), Particulate Phase, (ng/m3)	1**	ND	ND	ND
LEAD	1.0	ND	ND	ND
ARSENIC (ng/m3)	6**	ND	ND	ND
NICKEL (ng/m3)	20**	ND	ND	ND

\* 8 hrs basis

\*\* Annual basis

C. April'16–Jun'16

Parameters	Limit	Apr'2016	May'2016	Jun'2016
PM10	100	86.4	91.4	93.3
PM (<2.5mm),	60	39.0	40.7	43.3
SO2	80	13.1	22.5	17.7
NOX	80	20.4	27.7	25.8
AMMONIA	400	41.4	43.1	45.8
OZONE	100*	34.7	33.3	36.0
CO (mg/m3)	2000*	847.5	868.3	874.2
BENZENE	5**	ND	ND	ND
BENZO(a)PYRENE (as BaP), Particulate Phase, (ng/m3)	1**	ND	ND	ND
LEAD	1.0	ND	ND	ND
ARSENIC (ng/m3)	6**	ND	ND	ND
NICKEL (ng/m3)	20**	ND	ND	ND

\* 8 hrs basis

\*\* Annual basis

D. July'16–Sep'16

Parameters	Limit	July'2016	Aug'2016	Sept'2016
PM10	100	91	89	93
PM (<2.5mm),	60	42	39	41
SO2	80	13	12	12
NOX	80	21	19	17
AMMONIA	400	45	42	43
OZONE	100*	35	33	35
CO (mg/m3)	2000*	860	862	882
BENZENE	5**	ND	ND	ND
BENZO(a)PYRENE (as BaP), Particulate Phase, (ng/m3)	1**	ND	ND	ND
LEAD	1.0	ND	ND	ND
ARSENIC (ng/m3)	6**	ND	ND	ND
NICKEL (ng/m3)	20**	ND	ND	ND

\* 8 hrs basis

\*\* Annual basis



Annexure-13

**ANNUAL AVERAGE OF AGRA, FIROZABAD & MATHURA ( $\mu\text{g}/\text{m}^3$ )**

State	Cities	2011			2012			2013			2014			2015		
		SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>
Uttar Pradesh	Agra (6)	5	22	165*	5	23	196*	5	21	184*	5	19	178*	4	22	186*
Uttar Pradesh	Firozabad (3)	12	39	271*	12	31	212*	12	31	246*	12	26	146*	9	30	194*
Uttar Pradesh	Mathura (2)	20	24	206*	23	29	208*	-	-	-	-	-	-	-	-	-

Note: '-' Data not available, concentration calculated as per data available till 31.03.2016, in parenthesis shows number of Locations/Stations.

\*Concentration exceeding NAAQS of 50  $\mu\text{g}/\text{m}^3$  for SO<sub>2</sub>, 40  $\mu\text{g}/\text{m}^3$  for NO<sub>2</sub>, and 60  $\mu\text{g}/\text{m}^3$  for PM<sub>10</sub> for Residential/Industrial/other area.

दिनांक 07.12.2016 को आयुक्त, आगरा मण्डल/अध्यक्ष, टी0टी0जैड0 प्राधिकरण, आगरा की अध्यक्षता में आयुक्त कार्यालय स्थित समागार में "ताज ट्रेपेजियम जॉन प्रदूषण (निवारण तथा नियंत्रण) प्राधिकरण" की 36वीं सम्पन्न बैठक का कार्यवृत्त।

बैठक का संचालन सचिव, आगरा विकास प्राधिकरण द्वारा किया गया। बैठक में उपस्थित मा0सदस्यों/अधिकारियों की सूची संलग्नक-1 पर संलग्न है।

### एजेण्डा बिन्दु-02

'प्राधिकरण' की गत बैठक दिनांक 19.09.2016 की अनुपालन आख्या-

'प्राधिकरण' की गत बैठक दिनांक 19.09.2016 के निर्णयों की अनुपालन आख्या सम्बन्धित विभागों से प्राप्त करके संकलित अनुपालन आख्या बैठक में प्रस्तुत की गई, जिसकी बिन्दुवार समीक्षा की गयी। बैठक में निम्नानुसार निर्णय लिये गये-

### अन्य बिन्दु-

- (1) नगर आयुक्त द्वारा अवगत कराया गया कि लैण्डफिल साईट पर अन-प्रोसेस कूड़ा काफी मात्रा में एकत्रित हो चुका है, जिस पर किसी भी प्रकार की ग्रीनरी में परिवर्तित करना वर्तमान परिस्थिति में सम्भव नहीं है। नगर के सोलिड वेस्ट के वैज्ञानिक निस्तारण हेतु नगर निगम द्वारा किये जा रहे प्रयासों के अतिरिक्त अन्य आवश्यक व्यवस्थाओं हेतु स्वच्छ भारत मिशन योजना से वी.जी.एफ. के तहत विस्तृत कार्य-योजना तैयार कराने हेतु शासन द्वारा स्वच्छ भारत मिशन के कार्यों हेतु नामित रिसोर्स एजेन्सी रीजनल सेन्टर फॉर अरबन एण्ड इन्वायरनमेन्टल स्टडीज (RCUES) के माध्यम से कार्यवाही प्रारम्भ कर दी गई है। वर्तमान लैण्डफिल साईट के क्लोजर के उपरान्त ही उसका ग्रीनरी का प्रस्ताव किया जायेगा, तदनुसार डी.पी.आर. हेतु कार्यवाही की जा रही है। निर्देशित किया गया कि नगर निगम द्वारा डी0पी0आर0 बनवाकर प्रकरण में अद्यतन कार्यवाही से टी0टी0जैड0 प्राधिकरण को आगामी बैठक में अवगत कराया जाये।

(कार्यवाही-नगरायुक्त, नगर निगम, आगरा)

- (2) पेठा इकाइयों के स्थानान्तरण के सम्बन्ध में बैठक में अवगत कराया गया कि अपर नगर मजिस्ट्रेट(पंचम), आगरा से प्राप्त सूचनानुसार 26 पेठा इकाइयों के स्वामियों के विरुद्ध धारा-133 द0प्र0सं0 की कार्यवाही करायी गयी है। क्षेत्रीय अधिकारी, उ0प्र0प्र0नि0बो0, आगरा द्वारा अवगत कराया गया कि 26 पेठा इकाइयों के विरुद्ध प्रचलित धारा-133(1) द0प्र0सं0 वादों की कार्यवाही के परिप्रेक्ष्य में पेठा इकाइयों का औचक निरीक्षण दिनांक 25.10.2016 एवं दिनांक 27.10.2016 किया गया है। निरीक्षण के दौरान 08 इकाई कोल/कोक से संचालित पाई गर्वी, जिनके विरुद्ध बन्दी/दण्डात्मक कार्यवाही किये जाने हेतु अपर जिलाधिकारी (नगर), आगरा से अनुरोध किया गया है। निर्देशित किया गया कि चूंकि टी0टी0जैड0 क्षेत्र में कोल/कोक का प्रयोग प्रतिबंधित है, अतः जिला प्रशासन द्वारा पेठा इकाइयों के औचक निरीक्षण को अनवरत जारी रखा जाये तथा यह सुनिश्चित किया जाये कि कोई भी पेठा इकाई कोल/कोक से संचालित न हो। गत बैठक के निर्णयानुसार टी0टी0जैड0 प्राधिकरण को मासिक रूप से अवगत कराया जाये।

(कार्यवाही-एडीएम(सिटी), आगरा)

- (3) क्षेत्रीय अधिकारी(प्र0), उ0प्र0प्र0नि0बो0, मथुरा द्वारा अवगत कराया गया है कि मथुरा रिफाईनरी के निकट हाट मिक्स प्लान्ट को पूर्व में बन्द कराया जा चुका है। भविष्य में यदि कोई हाट मिक्स प्लान्ट टी0टी0जैड0 एरिया में स्थापित व संचालित पाया गया तो दोषी इकाई के विरुद्ध नियमानुसार दण्डात्मक कार्यवाही की जायेगी। निर्देशित किया गया कि गत बैठक के निर्णयानुसार आवश्यक कार्यवाही सुनिश्चित की जाये तथा कृत कार्यवाही से टी0टी0जैड0 प्राधिकरण को मासिक रूप से अवगत कराया जाये।

(कार्यवाही-जिलाधिकारी, मथुरा / क्षेत्रीय अधिकारी, उ0प्र0प्र0नि0बो0, मथुरा)

- (4) यमुना नदी के दोनों किनारों पर सघन वृक्षारोपण कराये जाने के सम्बन्ध में बैठक में उपस्थित अधिशाषी अभियंता, तृतीय मण्डल सिंचाई कार्य, आगरा द्वारा अवगत कराया गया कि यमुना नदी के दोनों किनारों पर वृक्षारोपण हेतु सिंचाई विभाग की कोई भूमि उपलब्ध नहीं है।
- (5) बैठक में पुलिस प्रशासन के प्रतिनिधि द्वारा अवगत कराया गया कि ताजमहल के परिध्रमी गेट के पास अवैध अतिक्रमणों को पूर्व में ही हटाया जा चुका है तथा पुनः अवैध अतिक्रमण न हो, के लिए पुलिस द्वारा लगातार स्थलीय निरीक्षण किया जा रहा है। निर्देश दिये गये कि यह सुनिश्चित किया जाये ताजमहल के आसपास अवैध अतिक्रमण किसी भी दशा में न हो। पुलिस अधीक्षक (नगर) तथा क्षेत्राधिकारी, सदर स्वयं समय-समय पर स्थलीय निरीक्षण सुनिश्चित करें तथा अवैध अतिक्रमण को हटाये जाने हेतु प्रभावी कार्यवाही सुनिश्चित करें। कृत कार्यवाही की सूचना मासिक रूप से टी0टी0जैड0 प्राधिकरण को अनिवार्य रूप से उपलब्ध करायी जाये।  
(कार्यवाही-एस.पी.(सिटी)/सीओ,सदर/नगर निगम,आगरा)
- (6) क्षेत्रीय अधिकारी(प्र0), उ0प्र0प्रदूषण नियंत्रण बोर्ड, मथुरा द्वारा अवगत कराया गया कि जनपद मथुरा में संचालित साड़ी छपाई की इकाइयों वर्ष 1996 के पूर्व से संचालित हैं। इन इकाइयों में ईंधन के रूप में बायो/एग्रो फ्यूल (तूरी ब्रिकेट) का प्रयोग किया जा रहा है। इन इकाइयों में वायु प्रदूषण नियंत्रण की उचित व्यवस्था स्थापित है। अतः साड़ी छपाई इकाइयों के संचालन से ना0उच्चतम न्यायालय के आदेश की अवमानना की स्थिति उत्पन्न नहीं हो रही है। क्षेत्रीय अधिकारी, उ0प्र0प्र0नि0बो0, मथुरा यह सुनिश्चित किया जाये कि ताज ट्रैपेजियम क्षेत्रान्तर्गत जनपद मथुरा में किसी भी प्रकार की प्रदूषणकारी गतिविधियाँ संचालित न हों। जो साड़ी इकाइयों संचालित हैं, में वायु प्रदूषण नियंत्रण हेतु जो व्यवस्था स्थापित की गयी है, का समय-समय पर निरीक्षण भी किया जाये। कृत कार्यवाही से टी0टी0जैड0 प्राधिकरण को मासिक रूप से अवगत कराया जाये।  
(कार्यवाही-क्षेत्रीय अधिकारी, उ0प्र0प्र0नि0बो0, मथुरा)

#### एजेण्डा बिन्दु-11 (07.01.2015)

शासन द्वारा प्रख्यापित इण्टीग्रेटेड टाउनशिप नीति के अन्तर्गत विकासकर्ता मै0अंसल ए0पी0आई0 द्वारा विकसित की जा रही इण्टीग्रेटेड टाउनशिप योजना को विकसित किये जाने हेतु टी0टी0जैड0 प्राधिकरण की अनुमति/क्विलयरेन्स प्रदान किये जाने के सम्बन्ध में- ए0डी0ए0 प्रतिनिधि द्वारा अवगत कराया गया कि गत बैठक के निर्णयानुक्रम में विकासकर्ता को 'सुशान्त ताज सिटी' इण्टीग्रेटेड टाउनशिप योजना में जनित सोलिड वेस्ट के उपयुक्त निस्तारण तथा भूमि अर्जन/क्रय के सम्बन्ध में समानुपातिक व्यय-वहन के सम्बन्ध में प्रस्ताव प्रस्तुत किये जाने हेतु कहा गया किन्तु विकासकर्ता द्वारा अभी तक उक्तानुसार प्रस्ताव प्रस्तुत नहीं किया गया है। गत बैठक के निर्णयानुसार विकासकर्ता को पुनः विस्तृत प्रस्ताव प्राप्त करने हेतु पत्र जारी किया जाये। विकासकर्ता कम्पनी से प्राप्त प्रस्ताव सहित प्रकरण टी0टी0जैड0 प्राधिकरण की अगली बैठक में प्रस्तुत किया जाये।

(कार्यवाही-मै0अंसल ए.पी.आई./टी0टी0जैड0 प्राधिकरण)

#### अध्यक्ष महोदय की अनुमति से-

- (1) ताजमहल के आसपास गोबर से बने उपलों (कण्डों) का प्रयोग एवं उनके प्रयोग पर प्रतिबंध के सम्बन्ध में नगर आयुक्त द्वारा अवगत कराया गया कि नगर निगम द्वारा कण्डा/उपला बनाने वालों के विरुद्ध चालान की निरन्तर कार्यवाही की जा रही है। इस सम्बन्ध में समस्त सफाई निरीक्षकों को सख्त कार्यवाही एवं निरन्तर चालान करने हेतु कोठी मीना बाजार के आसपास एवं ताजगंज क्षेत्र में प्रभावी कार्यवाही हेतु निर्देशित किया गया है। गत बैठक के निर्णयानुसार आगरा नगर निगम द्वारा आवश्यक अनुपालनीय कार्यवाही सुनिश्चित की जाये तथा

कृत कार्यवाही से टी0टी0जैड0 प्राधिकरण को मासिक रूप से प्रत्येक माह की 7 तारीख तक अवगत कराया जाये।

(कार्यवाही-नगरायुक्त,नगर निगम,आगरा)

- (2) राजस्थान राज्य के भरतपुर जिला में संचालित स्टोन क्रशर इकाइयों के संचालन के सम्बन्ध में चर्चा की गयी। अवगत कराया गया कि गत बैठक के निर्णयानुक्रम में राजस्थान राज्य प्रदूषण नियंत्रण मण्डल, भरतपुर द्वारा कोई सूचना उपलब्ध नहीं करायी गयी है। टी0टी0जैड0 प्राधिकरण की गत बैठक के निर्णयानुसार क्षेत्रीय अधिकारी, राजस्थान राज्य प्रदूषण नियंत्रण मंडल, भरतपुर द्वारा प्रकरण में प्रस्तावित कार्यवाही की अद्यतन सूचना एक सप्ताह के अन्दर टी0टी0जैड0 प्राधिकरण को उपलब्ध करायी जाये। साथ ही प्रत्येक माह की 7 तारीख तक टी0टी0जैड0 प्राधिकरण को सूचनायें उपलब्ध कराया जाना सुनिश्चित किया जाये।

(कार्यवाही-क्षेत्रीय अधिकारी,रा0रा0प्र0नि0मंडल,भरतपुर)

एजेण्डा बिन्दु-03 (26.08.2015)

ताज ट्रेपेजियम क्षेत्रान्तर्गत संचालित परियोजनाओं की नौतिक एवं वित्तीय प्रगति की अद्यावधिक स्थिति-अवगत कराया गया कि जल निगम द्वारा स्टार्म वाटर ड्रेनेज परियोजनान्तर्गत बकाया धनराशि रू0 84.38 लाख अभी तक वापस नहीं की गयी है। बैठक में अवगत कराया गया कि परियोजना प्रबन्धक, वि0बै0इ0(प्रथम), उ0प्र0जल निगम के नवीनतम पत्र दिनांक 05.12.2018 द्वारा यह सूचित किया गया है कि लगभग 15-18 वर्ष पुराना प्रकरण होने के कारण अभिलेखों की उपलब्धता में हो रही कठिनाई के दृष्टिगत कार्यालय के सहायक अभियंता एवं लेखाकक्ष के प्रतिनिधि को मुख्यालय (लखनऊ) भेजकर आवश्यक कार्यवाही करायी जा रही है ताकि यह प्रकरण निस्तारित हो सके। निर्देशित किया गया कि उ0प्र0 जल निगम 15 दिन के अन्दर बकाया धनराशि वापस करने हेतु प्रभावी कार्यवाही सुनिश्चित करें अन्यथा गत बैठक के निर्णयानुसार उ0प्र0 जल निगम के विरुद्ध धनराशि गबन के सम्बन्ध में एफ0आई0आर0 दर्ज कराने की कार्यवाही पर विचार किया जायेगा।

(कार्यवाही-टी0टी0जैड0प्राधि0/उ0प्र0जल निगम,आगरा)

एजेण्डा बिन्दु-04 (26.08.2015)

वायु प्रदूषण के नियंत्रण एवं रोकथाम के लिए पर्याप्त मात्रा में ताज ट्रेपेजियम क्षेत्र हेतु सी0एन0जी0 की आपूर्ति सुनिश्चित किये जाने के सम्बन्ध में-ग्रीन गैस लि0 के प्रतिनिधि द्वारा बैठक में अवगत कराया गया कि कालिन्दी विहार में सी0एन0जी0 स्टेशन स्थापित करने के लिए गैस पाइप लाइन डालने का कार्य किया जाना है, जिसके लिए वन विभाग से अनुमति लेने की प्रक्रिया चल रही है, जिसके उपरांत ही गैस पाइप लाइन तथा सी0एन0जी0 स्टेशन स्थापित करने का कार्य किया जा सकेगा। इसके अलावा एक ऑन लाइन सी0एन0जी0 स्टेशन (बीपीसीएल) सिक्न्दरा स्थित एवं दो बूस्टर स्टेशन, फतेहाबाद रोड तथा एत्मादपुर रोड पर स्थापित करने का कार्य दिसम्बर, 2018 के अंत तक पूर्ण होना प्रस्तावित है। नूरी दरवाजा क्षेत्र में गैस पाइप लाइन बिछाने का कार्य लगभग पूर्ण कर लिया गया है। एक स्थान पर रेलवे टनल के ऊपर पाइप लाइन डालने का कार्य शेष है, जिसको 1-2 माह के अन्तराल में पूर्ण कर लिया जायेगा। अवगत कराया गया कि आगरा शहर में पर्याप्त मात्रा में सी0एन0जी0 उपलब्ध है। निर्देश दिये गये कि ग्रीन गैस लि0 द्वारा कृत कार्यवाही की अद्यतन आख्या प्रत्येक माह की 7 तारीख तक टी0टी0जैड0 प्राधिकरण को अनिवार्य रूप से उपलब्ध करायी जाये।

(कार्यवाही-ग्रीन गैस लि0)

एजेण्डा बिन्दु-08 (26.08.2015)

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली की विज्ञान, तकनीकी, पर्यावरण एवं वन से सम्बन्धित संसद की स्टेण्डिंग कमेटी द्वारा ताजमहल पर प्रदूषण के प्रभाव के सम्बन्ध में राज्य समा में प्रस्तुत रिपोर्ट पर विचार-विमर्श-अवगत कराया गया कि प्रश्नगत रिपोर्ट की अद्यतन एक्शन टेकन रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली को माह अगस्त, 2016 तक की प्रेषित की जा चुकी है तथा अगले छः माह अर्थात् माह फरवरी, 2017 में रिपोर्ट भारत सरकार को प्रेषित की जायेगी। गत बैठक के निर्णयानुसार समी सम्बन्धित विभाग प्रत्येक छः माह के अन्तराल पर अद्यावधिक एक्शन टेकन रिपोर्ट उपलब्ध कराये ताकि रिपोर्ट संकलित कर पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली को निर्धारित समय पर प्रेषित की जा सके।

(कार्यवाही-समस्त संबंधित विभाग/टी0टी0जैड0ए0)

एजेण्डा बिन्दु-11 (26.08.2015)

फतेहपुर सीकरी में कॉमर्सियल कॉम्प्लैक्स-कम-इन्टरप्रिटेशन सेंटर स्थापित किये जाने हेतु मा0सर्वोच्च न्यायालय द्वारा रिट याचिका सं0 653/1994 में पारित आदेश दिनांक 10.06.2005 के अनुपालन के सम्बन्ध में-उपनिदेशक, पर्यटन, आगरा द्वारा अवगत कराया गया कि कार्यपालक अभियंता, केन्द्रीय लोक निर्माण विभाग द्वारा यह सूचित किया गया है कि मा0सर्वोच्च न्यायालय द्वारा रिट याचिका सं0 653/1994 में पारित आदेश दिनांक 10.6.2005 के अनुपालन में 500 से अधिक पेड़ों का रोपण वर्ष 2006-07 में किया गया तथा यह पौधे फतेहपुर सीकरी में शॉपिंग कम इन्टरप्रिटेशन सेंटर के निर्माण के दौरान कार्यस्थल पर उपलब्ध भू-भाग पर रोपित किये गये हैं। प्रकरण में अब कोई कार्यवाही वांछनीय नहीं है।

एजेण्डा बिन्दु-12 (26.08.2015)

मै0अशोक हाउसिंग, 2/27, सेठ गली, आगरा द्वारा प्लॉट सं0 जीएच-4, सेक्टर-बी2, ताजमहल नरी, फेज-2 आगरा में बनायी गयी समूह आवास योजना हेतु टी0टी0जैड0 प्राधिकरण की अनुमति/विलयरेन्स प्रदान किए जाने के सम्बन्ध में-अवगत कराया गया कि गत बैठक के निर्णयानुक्रम में योजना की पर्यावरणीय स्वीकृति उपलब्ध कराये जाने हेतु प्राधिकरण द्वारा पत्र सं0 571, दिनांक 09.11.2016 विकासकर्ता को प्रेषित किया जा चुका है। निर्देश दिये गये कि पर्यावरणीय स्वीकृति प्राप्त होने पर ही प्रकरण टी0टी0जैड0 प्राधिकरण की बैठक में प्रस्तुत किया जाये।

(कार्यवाही-टी0टी0जैड0ए0/मै0अशोक हाउसिंग)

एजेण्डा बिन्दु-4 (19.09.2016)

आयुध उपस्कर निर्माणी, हजरतपुर, टूण्डला, फिरोजाबाद में 900 के.वी.ए. के मैस आधारित जेनसेट को स्थापित किये जाने हेतु टी0टी0जैड0 प्राधिकरण की अनुमति प्रदान किये जाने विचार-अवगत कराया गया कि गत बैठक के निर्णयानुक्रम में प्राधिकरण के पत्र सं0 570, दिनांक 09.11.16 द्वारा महाप्रबन्धक, आयुध उपस्कर निर्माणी, हजरतपुर, फिरोजाबाद को टी0टी0जैड0 प्राधिकरण द्वारा प्रदान की गयी अनापत्ति/विलयरेन्स के सम्बन्ध में सूचित कर दिया गया है। अतः प्रकरण में अब कोई कार्यवाही अपेक्षित नहीं है।

एजेण्डा बिन्दु-5 (19.09.2016)

सेतु निगम द्वारा जनपद आगरा में कतिपय चार स्थलों पर प्रस्तावित चार उपरिगामी सेतुओं के निर्माण हेतु सेतु निगम लि0 को टी0टी0जैड0 प्राधिकरण की अनुमति प्रदान किये जाने के सम्बन्ध में-बैठक में अवगत कराया गया कि गत बैठक के निर्णयानुक्रम में उप-परियोजना प्रबन्धक,

उ०प्र०राज्य सेतु निगम लि०, आगरा को प्राधिकरण द्वारा पत्र सं० 569 दिनांक 09.11.2016 प्रेषित किया गया है किन्तु सेतु निगम लि० द्वारा कोई आख्या/प्रस्ताव अभी तक प्राधिकरण को उपलब्ध नहीं कराया गया है। निर्देश दिये गये कि गत बैठक में दिये गये निर्देशानुरूप सेतु निगम लि० द्वारा आवश्यक कार्यवाही सुनिश्चित की जाये। उसके उपरांत ही प्रकरण टी०टी०जैड० प्राधिकरण की बैठक में प्रस्तुत किया जाये।

(कार्यवाही-सेतु निगम लि०/डी०एफ०ओ०,सा०वा०प्र०,आगरा/भा०पु०स०,आगरा)

एजेण्डा बिन्दु सं० 6 (19.09.2016)

ताज ट्रेपेजियम क्षेत्र जनपद फिरोजाबाद में स्थापित/संचालित कॉच इकाइयों में उपयुक्त वायु प्रदूषण नियंत्रण व्यवस्था (फिल्टर स्कवर्स) स्थापित किये जाने के सम्बन्ध में-क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, फिरोजाबाद द्वारा अवगत कराया गया कि गत बैठक के निर्णयानुक्रम में उपयुक्त वायु प्रदूषण नियंत्रण व्यवस्था एवं NOx उत्सर्जन को नियंत्रित किये जाने हेतु सिस्टम स्थापित किये जाने के सम्बन्ध में समयबद्ध प्रस्ताव प्रस्तुत किये जाने के सम्बन्ध में उद्योगों को निर्देशित कर दिया गया है। निर्देश दिए गए कि गत बैठक के निर्णयानुसार आवश्यक कार्यवाही सुनिश्चित की जाये। कृत कार्यवाही से टी०टी०जैड० प्राधिकरण को मासिक रूप से अवगत भी कराया जाये।

(कार्यवाही-उ०प्र०प्रदूषण नियंत्रण बोर्ड/जिला उद्योग केन्द्र,फिरोजाबाद)

एजेण्डा बिन्दु सं० 8 (19.09.2016)

ताज ट्रेपेजियम क्षेत्र में संचालित 15 वर्ष पुराने वाहनों का पुनः रजिस्ट्रेशन नहीं किये जाने के सम्बन्ध में-अवगत कराया गया कि आर०टी०ओ०, आगरा यह सूचित किया है कि आगरा सम्भाग में टी०टी०जैड० क्षेत्र के अन्तर्गत पड़ने वाले भाग में 15 वर्ष पुरानी निजी वाहनों का री-रजिस्ट्रेशन पूर्णतः प्रतिबंधित कर दिया गया है। नये दो पहिया व चार पहिया वाहनों के पंजीयन से पूर्व वाहन स्वामी से वाहन के पार्किंग के लिए पर्याप्त पार्किंग स्थल होने का शपथ-पत्र लिया जा रहा है एवं पार्किंग स्थलों का मौखिक निरीक्षण भी किया जा रहा है। निर्देश दिये गये कि आर०टी०ओ० द्वारा यह व्यवस्था कड़ाई से लागू की जाये तथा इसमें किसी भी प्रकार की शिथिलता न बरती जाये। कृत कार्यवाही से मासिक रूप से टी०टी०जैड० प्राधिकरण को अवगत कराया जाये।

(कार्यवाही-आर०टी०ओ०,आगरा)

एजेण्डा बिन्दु सं० 11 (19.09.2016)

मै०भारत पेट्रोलियम कॉर्पो०लि०, मथुरा पीओएल डिपो में 06 अतिरिक्त टैंक (2 भूतल टैंक क्षमता 7100 कि०ली० एवं 4 अण्डरग्राउण्ड टैंक क्षमता 800 कि०ली०) के एक्सपेंशन हेतु टी०टी०जैड० प्राधिकरण की अनुमति प्रदान किये जाने पर विचार-मै०भारत पेट्रोलियम कॉर्पो०लि० के प्लॉट नं० 01, यूपीएसआईडीसी एरिया, साईट-बी, मथुरा में 6 अतिरिक्त टैंक (2 भूतल टैंक क्षमता 7100 कि०ली० एवं 4 अण्डरग्राउण्ड टैंक क्षमता 800 कि०ली०) स्थापित किये जाने के सम्बन्ध में क्षेत्रीय अधिकारी(प्र०), उ०प्र०प्र०नि०बो०, मथुरा द्वारा अवगत कराया गया कि मै०भारत पेट्रोलियम कॉर्पो०लि० द्वारा प्रश्नगत एक्सपेंशन के सम्बन्ध में वांछित विवरण उपलब्ध नहीं कराया गया है। उनके द्वारा अवगत कराया गया कि उद्योग में प्रस्तावित टैंकी की स्थापना उपरांत संचालन से किसी प्रकार का प्रदूषण जनित होना परिलक्षित नहीं होता है। अतः उद्योग को उक्त टैंकों के स्थापनार्थ अनापत्ति प्रदान किया जाना उचित प्रतीत होता है। निर्देशित किया गया कि मै०भारत पेट्रोलियम कॉर्पो०लि० द्वारा प्रस्तावित एक्सपेंशन से सम्बन्धित योजना का विस्तृत विवरण क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, मथुरा को शीघ्र उपलब्ध कराया जाये। क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, मथुरा द्वारा योजना का विस्तृत अध्ययन कर अपने अभिमत/संस्तुति सहित प्रकरण टी०टी०जैड० प्राधिकरण की आगामी बैठक में प्रस्तुत किया जाये।

(कार्यवाही-क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०,मथुरा/मै०भारत-पेट्रोलियम कॉर्पो०लि०)

मुख्य एजेण्डा बिन्दु (07.12.2016)

एजेण्डा बिन्दु सं० 3

मै०इंडियन ऑयल कॉर्पो०लि०, मथुरा रिफाईनरी, मथुरा के एक्सपेंशन हेतु टी०टी०जैड० प्राधिकरण की अनुमति/क्लियरेंस प्रदान किये जाने से सम्बन्धित संशोधित प्रस्ताव पर विचार-गत बैठक में पर्यावरण एवं वन मंत्रालय, भारत सरकार द्वारा मा०सर्वोच्च न्यायालय में दाखिल शपथ-पत्र एवं विविध पत्रों का संज्ञान लेते हुये बैठक में सर्वसम्मति से यह निर्णय लिया गया था कि मै०इंडियन ऑयल कॉर्पो०लि० द्वारा एक विस्तृत प्रस्तुतीकरण अगले सप्ताह किया जाये। प्रकरण पुनः टी०टी०जैड० अथॉरिटी की आगामी बैठक में प्रस्तुत किया जाये। श्री सुनील कपूर, डीजीएम (एचएसई), मथुरा रिफाईनरी द्वारा अवगत कराया गया कि उक्त निर्णयानुक्रम में उनके द्वारा मथुरा रिफाईनरी के प्रस्तावित विस्तारीकरण के सम्बन्ध में दिनांक 02.11.16 को अपराह्न 12.00 बजे आयुक्त कार्यालय स्थित लघु सभागार में आयुक्त महोदय एवं अन्य अधिकारियों के समक्ष पॉवर पॉइंट के माध्यम से प्रस्तुतीकरण किया जा चुका है। अवगत कराया गया कि प्रस्तुतीकरण बैठक में यह मत स्थिर हुआ है कि निम्न शर्तों के अधीन मथुरा रिफाईनरी के विस्तारीकरण की अनुमति प्रदान किये जाने पर विचार किया जाना उचित होगा-

- 1- पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की एक्सपर्ट अप्रेजल कमेटी (इण्डस्ट्री-2) की दिनांक 20-21 जुलाई, 2015 को सम्पन्न बैठक के कार्यवृत्त में उल्लिखित समस्त शर्तों/प्रतिबन्धों का अक्षरशः पालन सुनिश्चित करना होगा।
- 2- उ०प्र० प्रदूषण नियंत्रण बोर्ड, मथुरा के पत्र दिनांक 16.9.2016 द्वारा दिये गये अभिमत के कम में यह सुनिश्चित किया जाये कि मथुरा रिफाईनरी में विस्तारीकरण से जनित होने वाले प्रदूषण से ताजमहल पर किसी भी प्रकार का प्रतिकूल प्रभाव नहीं होगा तथा उनके अभिमतानुसार इस हेतु किसी उच्च तकनीकी संस्था नीरी/आई०आई०टी० अथवा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय जिसे उचित समझे, से परीक्षण करके रिपोर्ट प्राप्त की जाये।
- 3- मथुरा रिफाईनरी के विस्तार हेतु किये जाने वाले सभी कार्यों के सम्बन्ध में पर्यावरण व सम्बन्धित विभागों से वांछित अनुमति/अनापत्ति आवश्यक रूप से प्राप्त की जाये।
- 4- भविष्य में मथुरा रिफाईनरी के विस्तार के फलस्वरूप किसी भी प्रकार के प्रदूषण के फलस्वरूप प्रतिकूल प्रभाव परिलक्षित होता है तो मथुरा रिफाईनरी को इस हेतु सुधारात्मक उपाय सुनिश्चित करने होंगे।

उक्त प्रस्तुतीकरण बैठक के कम में मथुरा रिफाईनरी में प्रस्तावित एक्सपेंशन का विस्तृत प्रस्ताव टी०टी०जैड० प्राधिकरण की आगामी बैठक में अनापत्ति/क्लियरेंस हेतु प्रस्तुत किया गया है।

श्री सुनील कपूर, डीजीएम (एचएसई) द्वारा अवगत कराया गया कि मथुरा रिफाईनरी द्वारा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की एक्सपर्ट अप्रेजल कमेटी (इण्डस्ट्री-2) की दिनांक 20-21 जुलाई, 2015 को सम्पन्न बैठक के कार्यवृत्त में उल्लिखित समस्त शर्तों/प्रतिबन्धों का अक्षरशः पालन सुनिश्चित किया जायेगा। अवगत कराया गया कि प्रस्तावित योजना की स्टडी वर्ष 2015 में उनके द्वारा आई०एम०डी० संस्था से करायी जा चुकी है, जो कि नीरी के समकक्ष है। उनके द्वारा यह भी अवगत कराया गया कि संयुक्त सचिव, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली के अर्द्धशासकीय पत्र दिनांक 04.11.2016 द्वारा मथुरा रिफाईनरी के विस्तारीकरण के सम्बन्ध में टी०टी०जैड० प्राधिकरण के कमेण्ड्स अतिशीघ्र उपलब्ध कराये जाने के निर्देश दिये गये हैं ताकि पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार द्वारा प्रश्नगत परियोजना की पर्यावरणीय स्वीकृति हेतु उनके स्तर से त्वरित कार्यवाही की जा सके। बैठक में विचारविमर्श किया कि चूंकि क्षेत्रीय अधिकारी, उ०प्र० प्रदूषण नियंत्रण बोर्ड, मथुरा के पत्र सं० 811 दिनांक 16.9.2016 द्वारा दिये गये अभिमत के अनुसार वर्तमान क्षमता विस्तारीकरण से प्रदूषण भार में

वृद्धि नहीं होगी जो कि तकनीकी/सैद्धान्तिक रूप से उचित प्रतीत होते हैं। जहाँ तक उद्योग के उक्त तकनीकी योजना की स्टडी दक्ष संस्था जैसे कि नीरी/आई0आई0टी0 से प्राप्त किये जाने का प्रश्न है, के सम्बन्ध में उल्लेखनीय है कि मथुरा रिफाईनरी द्वारा योजना की स्टडी वर्ष 2015 में आई0एम0डी0 संस्था से करायी जा चुकी है। विस्तृत चर्चा उपरान्त यह निर्णय लिया गया कि क्षेत्रीय अधिकारी, उ0प्र0प्रदूषण नियंत्रण बोर्ड, मथुरा द्वारा योजना की वर्ष 2015 में आई0एम0डी0 संस्था द्वारा की गयी स्टडी रिपोर्ट का गहन अध्ययन किया जायेगा। यदि स्टडी रिपोर्ट के अनुसार उनके द्वारा यह पाया जाता है कि प्रस्तावित विस्तारीकरण से प्रदूषण भार में वृद्धि नहीं होती है तो ऐसी दशा में प्रकरण पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार को कार्यवाही हेतु संदर्भित कर दिया जाये एवं सम्पूर्ण स्थित प्राधिकरण बैठक में प्रस्तुत की जायेगी।

(कार्यवाही-क्षेत्रीय अधिकारी, उ0प्र0प्र0नि0बो0, मथुरा/मथुरा रिफाईनरी, मथुरा)

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श्री अशोक गोयल, प्रेसीडेन्ट, नेशनल चैम्बर ऑफ कॉमर्स एण्ड इण्डस्ट्रीज एवं श्री राकेश गर्ग, प्रेसीडेन्ट, लघु उद्योग भारती व अन्य द्वारा दिनांक 08.09.16 को सचिव, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की अध्यक्षता में आहूत बैठक में उद्योगों पर लगाए गए प्रतिबंध (श्वेत श्रेणी के उद्योगों को छोड़कर) से सम्बन्धित लिये गये निर्णय के क्रम में प्रस्तुत प्रत्यावेदन पर विचार-सचिव, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली की अध्यक्षता में दिनांक 08.09.2016 के कार्यवृत्त क बिन्दु क्रमांक-(xi) के अन्तर्गत पारित निर्णय "Ad-hoc moratorium on the expansion and setting up of new industry (except white category) to control air pollution by TZA." पर टी0टी0जैड0 अर्थोडिटी के स्तर पर विचार किये जाने के लिए श्री अशोक गोयल, प्रेसीडेन्ट, नेशनल चैम्बर ऑफ कॉमर्स एण्ड इण्डस्ट्रीज व श्री राकेश गर्ग, प्रेसीडेन्ट, लघु उद्योग भारती एवं अन्य द्वारा जिलाधिकारी, आगरा को प्रस्तुत प्रत्यावेदन दिनांक 08.11.2016 पर विचार-विमर्श किया गया। श्री अशोक गोयल द्वारा अवगत कराया गया कि भारत सरकार द्वारा श्वेत कैटेगरी के उद्योगों को छोड़कर लगभग सभी उद्योगों पर प्रतिबंध लगा दिया गया है, उनमें से कई उद्योग होटल, फुटवियर इण्डस्ट्रीज, कोल्ड स्टोरेज, आदि हैं। पीएम-10 में इस प्रकार के उद्योगों का प्रदूषण में कोई कन्ट्रीब्यूशन नहीं होता है। पीएम-10 रेत, धूल, आदि से बढ़ता है। उनके द्वारा बताया गया कि मा0उच्चतम न्यायालय द्वारा वर्ष 1996 में जारी आदेश में भी केवल प्रदूषणकारी उद्योगों को प्रतिबंधित करते हुये, उनको ग्रीन फ्यूल से संचालित करने हेतु कहा गया है। उनके द्वारा अवगत कराया गया कि यदि फुटवियर, कोल्ड स्टोरेज, होटल, विभिन्न प्रकार की 20000 वर्गमी0 क्षेत्रफल से ऊपर की आवासीय योजनाओं, आदि को भी प्रतिबंधित कर दिया गया तो ऐसी स्थिति में आगरा एवं ताज ट्रैपेजियम क्षेत्र में जनसामान्य एवं स्थानीय उद्यमियों पर प्रतिकूल प्रभाव पड़ेगा। विस्तृत विचार-विमर्श उपरान्त यह निर्देश दिये गये कि नेशनल चैम्बर ऑफ कॉमर्स एण्ड इण्डस्ट्रीज, लघु उद्योग भारती एवं अन्य द्वारा इस सम्बन्ध में एक विस्तृत स्वतः स्पष्ट प्रस्ताव तैयार कर क्षेत्रीय अधिकारी, उ0प्र0प्रदूषण नियंत्रण बोर्ड, आगरा को उपलब्ध कराया जाये, जिसमें रेड, ऑरेंज एवं ग्रीन कैटेगरी के उद्योगों तथा इन उद्योगों से जनित प्रदूषण का भी उल्लेख हो। नेशनल चैम्बर ऑफ कॉमर्स एण्ड इण्डस्ट्रीज, लघु उद्योग भारती एवं अन्य द्वारा तैयार किये गये प्रस्ताव के आधार पर क्षेत्रीय अधिकारी, उ0प्र0प्रदूषण नियंत्रण बोर्ड, आगरा द्वारा अपने अभिमत सहित इस सम्बन्ध में एक विस्तृत प्रस्ताव तैयार किया जाये, जिसे टी0टी0जैड0 प्राधिकरण की आगामी बैठक में प्रस्तुत किया जाये ताकि प्रकरण विचार हेतु पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार को संदर्भित किया जा सके।

(कार्यवाही-क्षेत्रीय अधिकारी, उ0प्र0प्र0नि0बोर्ड, आगरा/नेशनल चैम्बर ऑफ कॉमर्स एण्ड इण्डस्ट्रीज, लघु उद्योग भारती एवं अन्य )



## मा0अध्यक्ष महोदय की अनुमति से-

1-ताज ट्रेपेजियम क्षेत्रांतर्गत जनपद आगरा एवं फिरोजाबाद में स्थापित/संचालित ग्लास इण्डस्ट्रीज को गैसापूर्ति/गैस कनेक्शन की अनुमति प्रदान किये जाने पर विचार-क्षेत्रीय अधिकारी, उ0प्र0प्रदूषण नियंत्रण बोर्ड, फिरोजाबाद द्वारा अवगत कराया गया कि मै0श्रीसंत ग्लास वर्क्स, मै0लघु उद्योग पकाई भट्ठी चैम्बर सहकारी समिति एवं मै0गिरधारी लाल मनोहर लाल ग्लास वर्क्स को गैस की आपूर्ति दिनांक 07.01.2015 से पूर्व गैस लि0 द्वारा प्रदान कर दी गयी थी किन्तु टी0टी0जैड0 प्राधिकरण की बैठक दिनांक 07.01.2015 में त्रुटिवश 43 उद्योगों की सूची में मै0श्रीसंत ग्लास वर्क्स एवं मै0लघु उद्योग पकाई भट्ठी चैम्बर सहकारी समिति के नाम सम्मिलित हों गये थे। मै0गिरधारी लाल मनोहर लाल ग्लास वर्क्स मा0सर्वोच्च न्यायालय में प्रस्तुत सूचीबद्ध 625 इकाई में सम्मिलित इकाई है, जो कि एक बैंगिल डेकोरेशन इकाई है। जिलाधिकारी, फिरोजाबाद द्वारा अवगत कराया गया कि टी0टी0जैड0 प्राधिकरण की गत सस्पेन्ड बैठक दिनांक 19.9.2016 के एजेण्डा बिन्दु सं0 9 के अन्तर्गत प्रस्तुत प्रकरण में यह निर्णय पारित किये गये थे कि इकाइयों के प्रकरणों को संयुक्त आयुक्त, उद्योग, आगरा मण्डल, आगरा द्वारा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार को भिजवाया जाये ताकि पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के स्तर से इनका निस्तारण सम्भव हो सके। चर्चा उपरान्त निर्णय लिया गया कि गत बैठक के निर्णयानुक्रम में उक्त तीनों उद्योग/इकाई के प्रकरण महाप्रबन्धक, जिला उद्योग केन्द्र, फिरोजाबाद द्वारा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार को आवश्यक कार्यवाही हेतु प्रेषित किये जायें ताकि भारत सरकार द्वारा उक्त उद्योग/इकाई के प्रकरण पर निर्णय लिया जा सके।

(कार्यवाही-महाप्रबन्धक, जि0उ0केन्द्र, आगरा)

2-विश्व बैंक सहायतित प्रो-पुअर पर्यटन विकास परियोजना के अन्तर्गत पर्यटन विभाग द्वारा जनपद आगरा में क्रियान्वित की जाने वाली तीन योजनाओं हेतु टी0टी0जैड0 प्राधिकरण की अनुमति/क्लियरेंस प्रदान किये जाने पर विचार-उपनिदेशक, पर्यटन, आगरा द्वारा अवगत कराया गया कि विश्व बैंक सहायतित प्रो-पुअर पर्यटन विकास परियोजनान्तर्गत पर्यटन विभाग द्वारा जनपद आगरा में क्रियान्वित की जाने वाली निम्नांकित तीन परियोजनाओं की डी0पी0आर0 तैयार कर ली गयी है। इन परियोजनाओं हेतु विश्व बैंक से शीघ्र ही बजट प्राप्त हो जायेगा। इन योजनाओं के क्रियान्वयन हेतु टी0टी0जैड0 प्राधिकरण की अनुमति/क्लियरेंस वांछित है-

(1) ताजमहल एवं आगरा फोर्ट के मध्य दूरिस्ट वाक-वे शाहजहाँ गार्डन की परियोजना-इस योजना के अन्तर्गत निम्न कार्य प्रस्तावित हैं-

- अमर सिंह गेट जंक्शन, झलकारी बाई जंक्शन, पुरानी मण्डी जंक्शन पर यातायात सुधार।
- आगरा फोर्ट हेतु नेचुरल पाथ का निर्माण।
- शाहजहाँ पार्क में पेरीमीटर पाथ-वे का निर्माण।
- घास के मैदान, झील, गार्डन आदि का विकास।
- साईनेज, लाईटिंग, स्ट्रीट फर्नीचर व ब्रिज निर्माण।
- शाहजहाँ पार्क पर ब्रोशर्स, आदि।

(2) मेहताब-कछपुरा में मूलमूत पर्यटक एवं कम्यूनिटी अवस्थापना सुविधाओं का सृजन-इस योजना के अन्तर्गत निम्न कार्य प्रस्तावित हैं-

- मुख्य मार्ग से कछपुरा तक पेडेस्ट्रियल पाथ निर्माण तथा कछपुरा के आंतरिक गलियों व नालियों का सुधार।
- कछपुरा से मेहताब बाग को जोड़ने वाले एप्रोच रोड का निर्माण।
- पार्किंग एवं विजिटर फेसिलिटिज।
- चार कम्यूनिटी चौक का जीर्णोद्धार।

- प्राचीन कुर्रें का जीर्णोद्धार।
- साईनेज।
- कछपुरा पर ब्रोशर्स, आदि।

(3) ताज वेस्ट गेट पार्किंग का रिहैविलिटेशन एवं इन्टरप्रेटेशन/विजिटर सेन्टर का निर्माण—इस योजना के अन्तर्गत मल्टीलेबिल पार्किंग, शॉपिंग कॉम्प्लेक्स, विजिटर/इन्टरप्रेटेशन सेन्टर आदि का निर्माण प्रस्तावित है।

पर्यटन विभाग द्वारा उक्त तीनों परियोजनाओं का कॉन्सल्टेंट के माध्यम से बैठक में पावर पॉइंट प्रस्तुतीकरण कराया गया। क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, आगरा द्वारा यह अवगत कराया गया कि पर्यटन विभाग द्वारा उक्त परियोजनाओं का विस्तृत विवरण उन्हें उपलब्ध नहीं कराया गया है, जिसके कारण परियोजनाओं का अध्ययन नहीं किया जा सका है। श्री रमन द्वारा सुझाव दिया गया कि उक्त परियोजनाएँ ताजमहल के निकट होने के कारण परियोजनाओं के क्रियान्वयन से पूर्व पर्यटन विभाग द्वारा भारतीय पुरातत्व सर्वेक्षण विभाग से समन्वय स्थापित किया जाये। चर्चा उपरान्त निर्देश दिये गये कि चूँकि शाहजहाँ गार्डन पर उद्यान विभाग का स्वामित्व है, इसलिए इस परियोजना के क्रियान्वयन से पूर्व उद्यान विभाग की अनुमति प्राप्त की जाये। मेहताब बाग—कछपुरा में मूलभूत पर्यटक एवं कम्यूनिटी अवस्थापना सुविधाओं से सम्बन्धित परियोजना हेतु उ०प्र० प्रदूषण नियंत्रण बोर्ड एवं उ०प्र० जल निगम से अनापत्ति प्राप्त की जाये तथा पर्यटकों की सुरक्षा के दृष्टिगत स्थल पर पुलिस चौकी का भी प्राविधान योजना में किया जाये। ताज वेस्ट गेट पार्किंग के रिहैविलिटेशन एवं इन्टरप्रेटेशन/विजिटर सेंटर के निर्माण की परियोजना के क्रियान्वयन हेतु यदि वृक्षों का पातन प्रस्तावित है तो इसकी अनुमति मा०सर्वोच्च न्यायालय से प्राप्त की जाये। चूँकि उक्त परियोजनाएँ ताजमहल के आसपास प्रस्तावित हैं, इस कारण क्रियान्वयन से पूर्व भारतीय पुरातत्व सर्वेक्षण एवं राष्ट्रीय स्मारक प्राधिकरण से विधिवत् अनुमति/अनापत्ति प्राप्त की जाये। पर्यटन विभाग द्वारा उक्त परियोजनाओं की डी०पी०आर० क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, आगरा को उपलब्ध करायी जाये। क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, आगरा परियोजनाओं की डी०पी०आर० का पर्यावरणीय सुधार के दृष्टिकोण से अध्ययन करके अपना अभिमत/संस्तुति टी०टी०जैड० प्राधिकरण को उपलब्ध करायें। साथ ही मा०सर्वोच्च न्यायालय द्वारा समय-समय पर पारित आदेशों का विशेष ध्यान रखा जाये। क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, आगरा के अभिमत/संस्तुति सहित प्रकरण टी०टी०जैड० प्राधिकरण की आगामी बैठक में प्रस्तुत किया जाये।

(कार्यवाही—उपनिदेशक, पर्यटन, आगरा/क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, आगरा)

3—रिट याचिका (सिविल) सं० 13381/1984 (एम० सी० मेहता बनाम यूनियन ऑफ इण्डिया व अन्य) के अंतर्गत मा०सर्वोच्च न्यायालय द्वारा समय-समय पर पारित आदेशों के अनुपालन के सम्बन्ध में चर्चा की गयी। बैठक में पुनः यह तथ्य संज्ञान में लाया गया कि सम्बन्धित विभागों द्वारा मा०सर्वोच्च न्यायालय के आदेशों की अनुपालन आख्या समय पर उपलब्ध नहीं करायी जा रही हैं, जिसके कारण अनुपालन आख्या सम्बन्धी शपथ-पत्र मा०सर्वोच्च न्यायालय में दाखिल कराने में कठिनाई एवं विलम्ब हो रहा है। अध्यक्ष महोदय द्वारा रोष व्यक्त करते हुये यह कड़े निर्देश दिये गये कि समस्त सम्बन्धित विभाग अपने विभाग से सम्बन्धित समस्त आदेशों पर अक्षरशः अनुपालन सुनिश्चित करायें तथा आदेशों की अनुपालन आख्या निर्धारित समयवधि में टी०टी०जैड० प्राधिकरण को उपलब्ध करायी जाये। इसमें भी किसी प्रकार की शिथिलता न बरती जाये अन्यथा मा०सर्वोच्च न्यायालय में यदि कोई अप्रिय स्थिति उत्पन्न होती है तो उसका समस्त उत्तरदायित्व सम्बन्धित विभाग का होगा। गत बैठक के निर्णयानुसार क्षेत्रीय अधिकारी, उ०प्र०प्र०प्रदूषण नियंत्रण बोर्ड, आगरा द्वारा सभी सम्बन्धित विभागों से समन्वय स्थापित करके अनुपालन आख्याएँ प्राप्त/संकलित कर शपथ-पत्र के रूप में तैयार करके आयुक्त, आगरा मण्डल, आगरा की ओर से निर्धारित अवधि में मा०सर्वोच्च न्यायालय के समक्ष शीघ्रतिशीघ्र दाखिल कराये जायें।

(कार्यवाही—समस्त सम्बन्धित विभाग/क्षेत्रीय अधिकारी, उ०प्र०प्र०नि०बो०, आगरा)

4-अध्यक्ष महोदय द्वारा निर्देशित किया गया कि दिनांक 08.09.2016 को सचिव, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली की अध्यक्षता में सम्पन्न बैठक में दिये गये निर्देशानुक्रम में ताज ट्रैपेजियम क्षेत्र के पर्यावरणीय सुधार हेतु जिन-जिन विभागों द्वारा अभी तक शॉर्ट टर्म एवं लॉन्ग टर्म एक्शन प्लान बनाकर उपलब्ध नहीं कराये गये हैं, वह शॉर्ट टर्म एवं लॉन्ग टर्म एक्शन प्लान बनाकर एक सप्ताह के अन्दर टी0टी0जैड0 प्राधिकरण को अनिवार्य रूप से उपलब्ध कराये जायें तथा जो शॉर्ट टर्म एवं लॉन्ग टर्म एक्शन प्लान बनाये जायें, उनमें पार्लियामेन्ट्री स्टेण्डिंग कमेटी एवं तीरी द्वारा तैयार की गयी इन्व्हायरनमेन्ट मैनेजमेन्ट प्लान में निहित संस्तुतियों/उपायों का भी विशेष ध्यान रखा जाये। इसमें किसी भी प्रकार की शिथिलता न बरती जाये।

(कार्यवाही-समस्त सम्बन्धित विभाग)

अन्त में धन्यवाद ज्ञापन के साथ बैठक का समापन किया गया।

(चन्द्र कान्त)

मण्डलायुक्त/अध्यक्ष,  
टी.टी.जैड.प्राधिकरण,आगरा।

ATTENDANCE SHEET

Following officers were present in the "Taj Trapezium Zone Pollution (Prevention & Control) Authority" 36<sup>th</sup> meeting held on 07<sup>th</sup> Dec., 2016 at 03.00 pm. under the Chairmanship of the Commissioner, Agra Division/Chairman, T.T.Z. Authority, Agra at Commissioner's Office Meeting Hall, Agra.

Sl. No.	Name	Designation & Department	Phone Numbers / Email Address		Signature
			Mobile No.	Email ID	
1.	Chandra Kant	Divisional Commissioner/ Chairman, TTZA			
2.	Ajay Yadav	VC; ADA			
3.					
4.	Dr. P. Singh	S.P. Traffic	9454401008		
5.	Raj Kumar	Sec- ADA	8126228119	rajkumar.singh@ymail.com	
6.	S.C. Gaur	C.T.P. A.D.A.	9088802111	ganegda@gmail.com	
7.	R. M. N.	M. M. C. S.C.	9837572580	naman@201209.hk	
8.	Dr. Vishwanath Sharma	RO (CPCB) UPPCAFZD	9412534885	robinjaland@uppcb.com	
9.	V.K. SHUKLA	IC CPCB Agra	9956009777	cpcbagra@rediffmail.com	
10.	Waibhav Sharm	Deputy Collector Mathura	9454417398	Waibhavsharma23@gmail.com	
11.	H. S. Sagarathi	S.E. DVVNL AGRA	9412748089	esudcagra2@gmail.com	
12.	Sudhanshu Mohan	Joint comm. Industry Agra			
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