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# STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]
A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012
E-mail: spcbmines@gmail.com, Website: https://ospcboard.odisha.gov.in

## CONSENT ORDER

No. 1378 / **IND-I-CON-5428** Dt. 31-01-2026 /

**CONSENT ORDER NO. 2143**

**Sub : Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.**

Ref : Your online application **ID No. 7086576 Dated 26-11-2025.**

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: **PATABEDA IRON ORE MINE (14.0 HA) OF M/S. M. G. MOHANTY**

Name of the Occupier & Designation: **SRI R. L. MOHANTY, MANAGING PARTNER**

Address: **AT: PATABEDA ,PO – MALDA,DIST:SUNDARGARH**

This consent order is valid for the period upto **31.03.2027.**

***This consent order supersedes the earlier consent order issued vide letter No.4511, dated 19-03-2021.***

**Details of Products Manufactured**

| Sl. No | Product | Quantity |
|---|---|---|
| *01.* | *Iron Ore* | *0.12 MTPA* |

**Details of Mineral Handling Plants /Units**

| | |
|---|---|
| *01* | *Operation of mobile screening plant of capacity 1 x 250 TPH* |

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.

## A. Discharge permitted through the following outlet subject to the standard

| Outlet No. | Description of outlet | Point of discharge | Quantity of discharge KL/hr | Prescribed Standard | | | |
|---|---|---|---|---|---|---|---|
| | | | | pH | TSS (mg/l) | Oil & Grease (mg/l) | BOD (mg/l) |
| *01* | *Septic tank (Domestic effluent)* | *Soak pit* | -- | *5.5-9.0* | *200* | -- | *100* |
| *02* | *Mine drainage water/ surface runoff/ other wastewater* | *On land/ Inland surface water body* | *2570 (Monsoon period)* | *5.5-9.0* | *100 (Rainy day)* | *10* | -- |
| | | | | | *50 (Non-Rainy day)* | | |

## B. Fugitive Emission Standards

| **Particulate Matter** | **1200 $\mu g/m^3$** |
|---|---|
| Note : Fugitive emission shall be monitored in the predominant downwind direction at a distance 25.0 ± 2.0 metres from the source of fugitive emission as per following : | |
| **Area** | **Monitoring Location** |
| Mine face / Benches | Drilling, excavation and loading applicable for operating benches above water table |
| Haul Roads/ Service Roads | Haul roads to ore processing plant, waste dumps and loading areas and service road. |
| Crushing plant | Run-off mine unloading at hopper, crushing areas, screens and transfer points. |
| Screening plant | Screens, conveying and transportation of ore discharge points. |
| Ore storage and loading | Intermediate stock bin / pile areas, ore stock bin / pile areas, wagon / truck loading areas. |
| Waste dump | Active waste / reject dumps |

## C. Disposal of solid waste permitted in the following manner

| Sl. No. | Type of Solid waste | Quantity generated (TPD) | Quantity to be reused on site (TPD) | Quantity to be reused off site (TPD) | Quantity disposed off (TPD) | Description of disposal site. |
|---|---|---|---|---|---|---|
| *01* | *Top soil & over burden* | *As per approved mining plan* | -- | -- | -- | *As per approved mining plan* |

## D. GENERAL CONDITIONS FOR ALL UNITS

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground for liable to review/variation/revocation of the consent order under section 27 of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
2. The occupier would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order without any negligence on his/her part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. The applicant shall display suitable caution board at the place where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
12. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
13. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
15. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed impervious.
16. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
17. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
18. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the occupier must adopt alternate satisfactory treatment and disposal measures.
19. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
20. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
21. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Acts or Rules made therein.

22. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.
23. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
24. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
25. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner so as to meet the standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
26. The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time.
27. There shall not be any fugitive or episodal discharge from the premises.
28. In case of such episodal discharge/emissions the occupier shall take immediate action to bring down the emission within the limits prescribed by the Board and stop the operation of the plant if required. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
29. The applicant shall keep the premises and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
30. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned shall be reported to the Headquarters and Regional Office of the Board by E-mail within 2 hours of its occurrence.
31. The occupier has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
32. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the shall be disposed off scientifically to the satisfaction of the Board.
33. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
    i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
    ii) Controlled incineration, wherever possible in case of combustible organic material.
    iii) Composting, in case of bio-degradable material.
34. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
35. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
36. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
37. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
38. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
39. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
40. The occupier shall comply to the conditions stipulated in CTE order issued by Odisha State Pollution Control Board and conditions stipulated in Environmental Clearances issued by MoEF&CC, Govt. of India.
41. The occupier shall abide by E(P) Act, 1986 and Rules framed there-under.
42. In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.

## E. SPECIAL CONDITIONS:

1. This consent order is subject to compliance of orders of the Hon'ble Supreme Court of India in the matter of W. P. (Civil) 114/2014.
2. This consent order is subject to possession of valid mining lease beyond 07.03.2026.
3. This consent order is subject to permission from MoEF & CC, Govt. of India and Steel and Mines Department, Government of Odisha for continuing of mining operation.
4. Mining operation is subject to availability of all other statutory clearances.
5. Drills shall either be operated with dust extractors or equipped with water injection system to minimize dust generation in the work environment.
6. Controlled blasting shall be practiced to minimize generation of dust and fly rocks.
7. Regular water sprinkling shall be carried out in critical areas prone to air pollution such as around crushing and screening plant. Water sprinkling shall also be carried out on haul roads at frequent interval so that it should always remain in wet condition. Haulage roads shall be devoid of ruts and potholes and shall be maintained properly to avoid generation of dust during movement of vehicles.
8. Dust suppression measures (preferably dry fog system) shall be provided at all appropriate places of mineral handling plants (crusher & screening plant). Loading and unloading areas including all the transfer points shall also have efficient dust suppression arrangements (dry fog system). These shall be properly maintained and operated.
9. Mechanized wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine. The wheel washing facility shall be integrated with complete recirculation system.
10. The vehicles carrying ore for transportation from the mine shall be covered with tarpaulin (both bottom & top).
11. Regular water sprinkling on mineral transportation roads passing through the habitation area as well as other strategic point on the National Highway shall be done jointly by the mining lessees in consultation with the Regional Officer.
12. Four Ambient Air Quality Monitoring Stations shall be established in core zone and buffer zone for monitoring of ambient air quality and location of the stations shall be decided in consultation with the Regional Officer, State Pollution Control Board based on the metrological data, topographical features and environmentally and ecologically sensitive targets.
13. Fugitive Dust Emission Monitoring shall be carried out at the places as stated in Part-B of this order. The monitoring of ambient air quality and

fugitive dust shall be carried out twice in a week (24 hourly) at a particular site and the consolidated data shall be submitted to the State Pollution Control Board, once in a year.

14. The top soil generated shall be stored at earmarked site (s) only and stabilized with plantation or shall be used for land reclamation and plantation.
15. The over burden generated during the course of mining shall be stacked at earmarked dump site (s) and stabilized with plantation or used for reclamation of excavated land followed by plantation.
16. The project proponent shall ensure that no natural watercourse and / or water resources are obstructed due to any mining operations. In case of diversion of natural watercourse, this shall be done with prior permission of the competent authority.
17. Check dams and check weirs shall be constructed at appropriate places of the mine lease area to prevent direct flow of runoff to nearby water bodies. The surface runoff water from the existing runoff management system shall meet the prescribed standards as stated in Part A of the consent order.
18. Retention wall shall be constructed at the toe of topsoil dump and OB dump. Garland drain shall be constructed around topsoil dumps, over burden dumps and mineral stack yards terminating at settling pit to prevent direct disposal of runoff to nearby water bodies.
19. Garland drain and sedimentation pit shall be de-silted after monsoon or as and when required. The runoff discharge quality from runoff management system shall meet the prescribed standards as stated in Part A of the consent order.
20. Domestic effluents shall be treated in a sewage treatment plant (STP) and or shall be discharged to soak pit via septic tank constructed as BIS specification. The treated wastewater quality of STP shall remain within the following standards and shall be used for plantation:

| | | |
|---|---|---|
| pH | - | 6.5 -9.0 |
| TSS | - | <100 mg/l |
| BOD | - | 30 mg/l |
| Fecal Coliform | - | <1000 MPN/100 ml. |

21. ETP comprising of oil and grease trap with sedimentation pit shall be provided for treatment of workshop effluent, if any and treated effluent shall remain within the following prescribed standards and shall be reused for washing of vehicles:

| | | |
|---|---|---|
| pH | - | 6.5 -8.5 |
| TSS | - | 50 mg/l |
| Oil & grease | - | 10 mg/l |
| COD | - | 150 mg/l |

22. ETP shall be provided for workshop and wastewater generated during mining operation, if any. The quality of the treated wastewater shall conform to the prescribed standard as stated in Part A of the consent order.
23. Regular monitoring of water quality of upstream and downstream of surface water bodies existed if any within 5 Km shall be carried out once in every month and record shall be maintained and submitted to the State Pollution Control Board once in every year. Monitoring shall be carried out through MoEF& CC accredited laboratory.
24. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Consolidated data thus collected should be submitted to the Board annually.
25. The mine shall take necessary action for compliance with the air and water quality standards as stipulated in Part-A and Part-B of this order.
26. Adequate measures shall be taken for control of noise levels below the following limits.

    (6.00 AM - 9.00 PM) - Leq 75 dB(A)
    (9.00PM - 6.00 AM) - Leq 70 dB(A)
27. Ambient air quality monitoring data, noise monitoring data and water / wastewater quality monitoring data shall be electronically displayed at the entry point of the mine or at a suitable location of the mine.
28. All DG sets installed before 1.7.2004 shall be scrapped. DG sets complying with either Stage-I or Stage-II emission norms shall reduce Particulate Matter Emission by 70% by installing RECD without affecting any other emission parameters as per the CPCB guidelines and Board's letter vide No.17927, dated 14.11.2023 and letter No.7146, dated 10.05.2024, in this regard.
29. Stack height of the DG sets shall be as per the following Table.

| Less than 1000 KVA (800 watts) | More than 1000 KVA (800 watts) |
|---|---|
| i) $14Q^{0.3}$, Q = Total $SO_2$ emission from the plant in kg/hr.<br>ii) Minimum 6m. above the building where generator set is installed<br>iii) 30 m.<br><br>(Whichever is maximum) | H = h+0.2√KVA in m<br>Where,<br>h= Height of the building where it is installed in meter<br>KVA = Capacity of DG set<br>H = Height of the stack in meter above ground level. |

30. Plantation of trees shall be undertaken in the colony/ township, over top soil dumps, OB dumps, along the side of haul road and in other areas of the mines not being utilized for mining activities. The mine shall take up avenue

plantation and plantation in nearby village areas in consultation with DFO/Horticulture Department. The plantation details shall be submitted to the Board before end of April every year.

31. A copy of the annual return (annual return submitted to IBM, Govt. of India/ Directorate of Mines, Govt. of Odisha) shall be submitted to this Board every year.

32. The environmental statement report for the financial year ending 31st March shall be submitted to the Board in form -V on or before 30th September every year.

**CHIEF ENV. ENGINEER**
**STATE POLLUTION CONTROL BOARD, ODISHA**

**TO,**

**SRI R. L. MOHANTY, MANAGING PARTNER**
**PATABEDA IRON MINES (14 HA) OF M/S. M. G. MOHANTY,**
**2A, FOREST PARK,**
**BHUBANESWAR, PIN: 751009**

Memo No._____/Dt._____/

*Copy forwarded to :*

i. Regional Officer, State Pollution Control Board, **Rourkela**
ii. District Collector, **Sundargarh**
iii. Director of Mines, Govt. of Odisha, Bhubaneswar
iv. Director, Environment-cum-Special Secretary, F, E & CC Dept., Govt. of Odisha, Bhubaneswar.
v. D.F.O, **Bonai**
vi. Deputy Director of Mines, **Koira**
vii. Chief Env. Scientist, Central Lab. SPCB, Bhubaneswar
viii. Consent Register

**SR. ENV. ENGINEER**
**STATE POLLUTION CONTROL BOARD, ODISHA**

# GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS

## GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART – A : EFFLUENTS

| Sl. No. | Parameters | Standards | | | |
|---|---|---|---|---|---|
| | | Inland surface | Public sewers | Land for irrigation | Marine Costal Areas |
| | | (a) | (b) | (c) | (d) |
| 1. | Colour & odour | Colourless/ Odourless as far as practible | -- | See 6 of Annex-1 | See 6 of Annex-1 |
| 2. | Suspended Solids (mg/l) | 100 | 600 | 200 | a. For process wastewater – 100<br>b. For cooling water effluent 10% above total suspended matter of influent. |
| 3. | Particular size of SS | Shall pass 850 | -- | -- | -- |
| 5. | pH value | 5.5 to 9.0 | 5.5 to 9.0 | 5.5 to 9.0 | 5.5 to 9.0 |
| 6. | Temperature | Shall not exceed $5^0$C above the receiving water temperature | -- | -- | Shall not exceed $5^0$C above the receiving water temperature |
| 7. | Oil & Grease mg/l max. | 10 | 20 | 10 | 20 |
| 8. | Total residual chlorine | 1.0 | -- | -- | 1.0 |
| 9. | Ammonical nitrogen (as N) mg/l max. | 50 | 50 | -- | 50 |
| 10. | Total Kajeldahl nitrogen (as $NH_3$) mg/1 max. | 100 | -- | -- | 100 |
| 11. | Free ammonia (as $NH_3$) mg/1 max. | 5.0 | -- | -- | 5.0 |
| 12. | Biochemical Oxygen Demand (5 days at ($20^0$C) mg/1 max. | 30 | 350 | 100 | 100 |
| 13. | Chemical Oxygen Demand, mg/1 max. | 250 | -- | -- | 250 |
| 14. | Arsenic (as As) mg/1 max. | 0.2 | 0.2 | 0.2 | 0.2 |

| Sl. No. | Parameters | Standards | | | |
|---|---|---|---|---|---|
| | | Inland surface | Public sewers | Land for irrigation | Marine Costal Areas |
| | | (a) | (b) | (c) | (d) |
| 15. | Mercury (as Hg) mg/1 max. | 0.01 | 0.01 | -- | 0.001 |
| 16. | Lead (as pb) mg/1 max. | 1.0 | 1.0 | -- | 2.0 |
| 17. | Cardmium (as Cd) mg/1 max. | 2.0 | 1.0 | -- | 2.0 |
| 18. | Hexavalent Chromium (as Cr + 6) mg/l max. | 0.1 | 2.0 | -- | 1.0 |
| 19. | Total Chromium (as Cr) mg/l max. | 2.0 | 2.0 | -- | 2.0 |
| 20. | Copper (as Cu) mg/l max. | 3.0 | 3.0 | -- | 3.0 |
| 21. | Zinc (as Zn) mg/l max. | 5.0 | 15 | -- | 15 |
| 22. | Selenium (as Sc) mg/l max. | 0.05 | 0.05 | -- | 0.05 |
| 23. | Nickel (as Nil) mg/l max. | 3.0 | 3.0 | -- | 5.0 |
| 24. | Cyanide (as CN) mg/l max. | 0.2 | 2.0 | 0.2 | 0.02 |
| 25. | Fluoride (as F) mg/l max. | 2.0 | 15 | -- | 15 |
| 26. | Dissolved Phosphates (as P) mg/l max. | 5.0 | -- | -- | -- |
| 27. | Sulphide (as S) mg/l max. | 2.0 | -- | -- | 5.0 |
| 28. | Phennolic compounds as ($C_6H_5OH$) mg/l max. | 1.0 | 5.0 | -- | 5.0 |
| 29. | Radioactive materials<br>a. Alpha emitter micro curle/ml.<br>b. Beta emitter micro curle/ml. | <br>$10^7$<br>$10^6$ | <br>$10^7$<br>$10^6$ | <br>$10^8$<br>$10^7$ | <br>$10^7$<br>$10^6$ |
| 30. | Bio-assay test | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent |
| 31 | Manganese (as Mn) | 2 mg/l | 2 mg/l | -- | 2 mg/l |
| 32. | Iron (Fe) | 3 mg/l | 3 mg/l | -- | 3 mg/l |
| 33. | Vanadium (as V) | 0.2 mg/l | 0.2 mg/l | -- | 0.2 mg/l |
| 34. | Nitrate Nitrogen | 10 mg/l | -- | -- | 20 mg/l |

# NATIONAL AMBIENT AIR QUALITY STANDARDS

| Sl. No. | Pollutants | Time Weighed Average | Concentrate of Ambient Air | | |
|---|---|---|---|---|---|
| | | | Industrial Residential, Rural and other Area | Ecologically Sensitive Area (notified by Central Government) | Methods of Measurement |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Sulphur Dioxide ($SO_2$), $\mu g/m^3$ | Annual * | 50 | 20 | -Improved west and Gaeke |
| | | 24 Hours ** | 80 | 80 | - Ultraviolet fluorescence |
| 2. | Nitrogen Dioxide ($NO_2$), $\mu g/m^3$ | Annual * | 40 | 30 | - Modified Jacob & Hochheiser ( Na-Arsenite) |
| | | 24 Hours ** | 80 | 80 | - Chemiluminescence |
| 3. | Particulate Matter (size less than 10µm) or $PM_{10}\mu g/m^3$ | Annual * | 60 | 60 | -Gravimetric - TOEM |
| | | 24 Hours ** | 100 | 100 | - Beta Attenuation |
| 4. | Particulate Matter (size less than 2.5µm) or $PM_{2.5}$ $\mu g/m^3$ | Annual * | 40 | 40 | -Gravimetric - TOEM |
| | | 24 Hours ** | 60 | 60 | - Beta Attenuation |
| 5. | Ozone ($O_3$) $\mu g/m^3$ | 8 Hours ** | 100 | 100 | - UV Photometric - Chemiluminescence |
| | | 1 Hours ** | 180 | 180 | - Chemical Method |
| 6. | Lead (Pb) $\mu g/m^3$ | Annual * | 0.50 | 0.50 | -AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter |
| | | 24 Hours ** | 1.0 | 1.0 | |
| 7. | Carbon Monoxide (CO) $mg/m^3$ | 8 Hours ** | 02 | 02 | - Non Dispersive Infra Red (NDIR) Spectroscopy |
| | | 1 Hours ** | 04 | 04 | |
| 8. | Ammonia ($NH_3$) $\mu g/m^3$ | Annual* | 100 | 100 | -Chemiluminescence - Indophenol Blue Method |
| | | 24 Hours** | 400 | 400 | |
| 9. | Benzene ($C_6H_6$) $\mu g/m^3$ | Annul * | 05 | 05 | -Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis |
| 10. | Benzo (a) Pyrene (BaP)-Particulate phase only, $ng/m^3$ | Annual* | 01 | 01 | -Solvent extraction followed by HPLC/GC analysis |
| 11. | Arsenic (As), $ng/m^3$ | Annual* | 06 | 06 | -AAS/ICP method after sampling on EPM 2000 or equivalent filter paper |
| 12. | Nickel (Ni),$ng/m^3$ | Annual* | 20 | 20 | -AAS/ICP method after sampling on EPM 2000 or equivalent filter paper |

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.