

Fugitive Emission Standards	
Particulate Matter	600 µg/m ³
<p>Note: Fugitive emission shall be monitored in the predominant downwind direction at a distance 25.0 ± 2.0 meters from the source of fugitive emission as per following:</p>	
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 & Loading	Intermediate stock bin/pile areas, ore stock bin/pile areas, wagon/truck loading areas.
Waste Dump	Active waste/reject dumps.
Effluent Standards	
pH	5.5-9.0
Suspended solids (non-rainy day)	50 mg/l
Suspended Solids (rainy day)	100 mg/l
Oil & grease	10 mg/l
<p>Note:</p> <p>(i) All efforts shall be made to reuse and re-circulate the treated effluent.</p> <p>(ii) The aforesaid effluent standards shall be complied with for sewage, service water, beneficiation of ore wash water and surface run-off put together.</p>	

1. The applicant shall comply with the conditions imposed in EC issued by SEIAA, GoK, dtd: 27.09.2019.
2. The applicant shall comply with IBM Plan approval.

NATIONAL AMBIENT AIR QUALITY STANDARDS

Pollutant	Time Weighted Average	Concentration in Ambient Air		Method of Measurement
		Industrial, Residential, Rural & other Areas	Ecologically sensitive area (Notified by Central Government)	
Sulphur Dioxide (SO ₂)	Annual* 24 Hours**	50 µg/m ³ 80 µg/m ³	20 µg/m ³ 80 µg/m ³	- Improved West and Gacke method. - Ultraviolet fluorescence.
Nitrogen Dioxide (NO ₂)	Annual* 24 Hours**	40 µg/m ³ 80 µg/m ³	30 µg/m ³ 80 µg/m ³	- Modified Jacob & Hochheiser (Na-Arsenite) Method. - Chemiluminescence.
Particulate Matter (Size less than 10 µm) or PM ₁₀	Annual* 24 Hours**	60 µg/m ³ 100 µg/m ³	60 µg/m ³ 100 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.
Particulate Matter (Size less than 2.5 µm) or PM _{2.5}	Annual* 24 Hours**	40 µg/m ³ 60 µg/m ³	40 µg/m ³ 60 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.

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

** 24 hourly/8 hourly/1 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.

Note:

Whenever & wherever monitoring results on two consecutive days of monitoring exceeds the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

ADDITIONAL CONDITIONS

3. There shall not be any point air pollution sources in the project.
4. The applicant shall monitor the Fugitive Emissions at places as described in **Annexure-III** and submit reports to the Board once in three months. The Particulate Matter monitored in the predominant downwind direction at a distance 25.0 ± 2.0 meters from the source of Fugitive Emissions shall not exceed $600 \mu\text{g}/\text{m}^3$.
5. The applicant shall conduct Ambient Air Quality Monitoring in the area and the Ambient Air Quality shall conform to the National Ambient Air Quality Standards (NAAQS) prescribed in Environment (Protection) Seventh Amendment Rules 2009, as per **Annexure-IV** enclosed.
6. Wet drilling method shall be adopted to avoid dust emissions. Eco-friendly blasting material shall be used to minimize ground vibrations and flying rocks.
7. The mode of disposal of solid waste and the area selected for the same shall be got approved by the Board duly furnishing the relevant information within 30 days from the receipt of this consent for establishment.
8. The excavated pits shall be filled with overburden material and sufficient plantation shall be carried out as per the reclamation programme.
9. The dumping of overburden shall be done systematically as per the EMP in IBM approved mining plan.
10. Bunds of sufficient height and length to be constructed to stop the storm water flowing through the dumps of the mining area. This will prevent the rush of storm water carrying the loose soil down below either to the reservoir or to the fields.
11. Construction of sufficient check dams, gully plugs, retaining wall, and contour trenches to control soil erosion from the top of the dumps shall be undertaken as per approved Mining Plan of IBM.
12. The applicant shall construct trenches to prevent the speedy rush of water as well as the disturbance on the settled earth.
13. The applicant shall adopt continuous water sprinkling system to suppress the dust particles in the mining area and also while transporting the Ore.
14. The applicant shall carryout reclamation of the mines area and shall take intensive afforestation measures.
15. The applicant shall dump the over burden in designated area as per IBM approved plan. The dump shall be periodically stabilized to take up plantation. Adequate numbers of retaining wall shall be provided to arrest run off. Continuous water sprinkling system shall be adopted to suppress dust nuisance.
16. The applicant shall strictly comply to the conditions in Environmental Clearance issued by SEIAA, GoK dated 27.09.2019.
17. The mining area **shall not exceed as per Mine Lease** and in case of increase in mining area, separate CFE shall have to be obtained from Board.
18. The mining and dumping activity shall be carried out systematically adhering to the Environmental Management Plan and Mining Plan as approved by **IBM Mining Plan** and the applicant shall carry out all the works as proposed in the EMP.