


MAHARASHTRA POLLUTION CONTROL BOARD

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Website: http://mpcb.gov.in		Near Sion Circle, Sion (E)
E-mail: jdair@mpcb.gov.in		Mumbai-400 022.

RED/M.S.I

Consent No:BO/JD(APC)/EIC No. NG-14051-16/R/CC-1063 Date:18/03/2017

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization / Renewal of Authorization under Rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
[To be referred as Water Act, Air Act and H&OW (M&TM) Rules respectively].

CONSENT is hereby granted to

M/s. Maharashtra State Mining Corporation Ltd.
Nawargaon Chowa Kyanite Mine,
Post. Pahela, Tal. Bhandara, Dist. Bhandara.

Located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of H&OW(M&TM) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- The Consent to Operate is granted for a period up to: 31/12/2019 or validity of mining lease period whichever is earlier.
- The consent to operate is valid for activity of Mining over mining lease area of 40.96 ha.

Sr. No.	Product Name	Maximum Quantity	UOM
1	Kyanite & Associated Aluminous Minerals	5000	Ton/Annum

3. CONDITIONS UNDER WATER ACT:

- The daily quantity of trade effluent from the factory shall be Nil.
- The daily quantity of sewage effluent from the factory shall not exceed 1.0 m³.
- Trade Effluent Treatment: N.A.
- Trade Effluent Disposal: N.A.
- Sewage Effluent Treatment: The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	100	mg/l.
(2)	BOD 3 days 27o C.	Not to exceed	100	mg/l.
- Sewage Effluent Disposal: The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) Non-Hazardous Solid Wastes:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
The Waste i.e. over burden shall be disposed for by means of backfilling or reclamation of the land.					

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i) Domestic	...	4.0	CMD
(ii) Mine Discharge	...	0.0	CMD
(iii) Spraying, workshop, dust supersession			
(iv) Agriculture / Gardening	...	0.0	CMD
(v) Sand Stowing	...	--	CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. **CONDITIONS UNDER AIR ACT:**

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

(A) Standards for Ambient Air Pollutants:

(i) Suspended Particulate matter (SPM)	Not to exceed	500 $\mu\text{g}/\text{m}^3$
(ii) Respirable Particulate matter (RSPM)	Not to exceed	200 $\mu\text{g}/\text{m}^3$
(iii) Sulphur Dioxide (SO_2)	Not to exceed	120 $\mu\text{g}/\text{m}^3$
(iv) Oxides of Nitrogen (NO_x)	Not to exceed	120 $\mu\text{g}/\text{m}^3$

(B) Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150	mg/Nm^3
(ii) SO_2	Not to exceed	--	Kg/Day

(C) Control Equipment:

- (i) Mineral Handling Plant will be provided with Dust Collector and Automatic Water Sprinkler.
- (ii) Scientific spraying of water on all working area, dumping area, stock yard piles with help of appropriate dust suppression system.
- (iii) Minerals metals shall be properly covered during transportation.
- (iv) The applicant shall be carrying out tree plantation along road side, around dumps or compulsory a forestation as per proposal approved by forest department. The tree plantation programme shall be taken up well in advance of actual mining activity, so that green belt of sufficient width and height is developed between mining area/road and surrounding environment.
- (v) Black topped metal led roads shall be provided and well maintained to prevent duct formation.
- (vi) Overloading of dumpers shall be avoided to prevent spillage.
- (vii) Correct type and quantity of explosive shall be used to avoid exceed dust formation and vibration in the surrounding area.
- (viii) The slope of the over burden shall have slope but not more than 28 degree to the horizontal. The overburden shall be properly covered by vegetations for stabilization.
- (ix) Mineral transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.

- (i) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
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- (ii) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height in Mtrs.
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- (iii) The applicant shall provide minimum three ambient air quality monitoring station within mining area which should be monitored for SPM, RSPM, SO₂, NO_x, HC, CO etc. The annual arithmetic mean of minimum 104 measurements in the year taken twice a week 24 hourly at uniform interval shall confirm to the National Ambient Air Quality Standard prescribed under Air (Prevention & Pollution Control) Act, 1981 and Environment (Protection) Act, 1986. The record of continuous monitoring done shall be open for inspection to/ the Board's Staff.
- (iv) The industry shall take adequate measures for control of noise levels from its own sources as follow:

Sr. No.	Location	Permissible Norms [in dB(A)]	Desired minimum thickness of green belt
1	Along Road	65 (commercial Area)	20
2	In colonies	55 (Residential Area)	20
3	Near Opencast Mines	75 (Industrial Area)	10 (*40)
4	Near CHPs	75	30
5	Near Shaft	75	20
6	Near Mine exhaust fan	75	>50

(* The Open Cast Mine needs to be surrounding by a green belt of sufficient width as per the guidelines of design institute Ltd. (A subsidiary of coal In Ltd.) if the residential complex are very close).

(vi) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality regularly.

6. CONDITIONS UNDER HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) RULES, 2016:

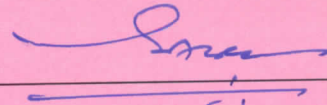
Sr.No.	Type of waste	Quantity	Disposal
Industry shall not generate any hazardous waste			

7. Other Conditions: --

- (i) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.

8. General conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the

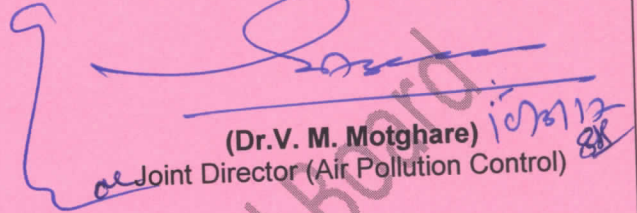


- applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent / emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
 - vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
 - vii. **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
 - viii. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1993.
 - ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
 - x. The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
 - xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
 - xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
9. The project authorities shall identify critical road section where the dust generation from mineral transportation is likely to affect human population and/or agriculture and take up work of making those road pucca & clean, so as to reduce dust emission in 3 month.
 10. The project authority shall install well designed water sprinkling arrangement including fixed and mobile sprayers for dust suppression. The augmentation/up gradation proposal for duct suppression system shall be submit within 3 month.
 11. The project authorities shall give suitable training to field level mine personnel and truck driver on environmental protection and pollution control.
 12. **The applicant shall comply with the condition stipulated in the Environmental Clearance granted by Ministry of Environment Forests, Govt. of India, New Delhi vide letter No. J-11015/752/2007-IA.II(M) dtd. 20/12/2007.**
 13. **This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.**
 14. **Industry shall implement mechanical closed type transportation system for mineral handling truck and also introduce closed type conveyer belt transportation of minerals from mine.**

15. Industry shall submit Bank Guarantee of Rs. 15,000/- (Rs. Twenty Five thousand only) towards operation and maintenance of pollution control system so as to achieve the consented standard. Bank Guarantee shall be submit in favor of Regional Officer, Nagpur within 15 days valid upto 30/04/2020.

16. The Capital investment of the industry is Rs.0.17/-lakh.

For and On Behalf of the
Maharashtra Pollution Control Board,


(Dr. V. M. Motghare)
Joint Director (Air Pollution Control)

To,
M/s. Maharashtra State Mining Corporation Ltd.
Nawargaon Chowa Kyanite Mine,
Post. Pahela, Tal. Bhandara, Dist. Bhandara.

Copy to:

1. RO- MPCB Nagpur.
 2. SRO-MPCB- Bhandara,
- They are directed to submit the detail verification report of consent conditions within 1 month period & obtain BG as per above conditions.
3. CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	12,500/-	162654	10/10/2015	Bank of Maharashtra

- 4) Cess Branch, MPC Board, Mumbai.
- 5) Master file.