

# Six Monthly Environmental Compliance Report

## FOR

### Dighori Kyanite Mine

Environment Clearance for Proposed Production of 14000 TPA, Area 14.33 hectare located in village Dighori, Taluka Lakhandur, District Bhandara for mining of minerals Kyanite, Pyrophyllite, Corundum, Sillimanite & Quartz

EC Letter No: SEAC-2015/CR-106/TC-2 dated 16<sup>th</sup> January 2016



Submitted by:

**OPEN ARCH DESIGN & ENVIRO SOLUTIONS LLP**

302, Big Splash, Plot no.78 &79, Sector-17,

Vashi, Navi Mumbai - 400703

Email: [openarchdesign@gmail.com](mailto:openarchdesign@gmail.com)

**Data Sheet**

1	Project type: River – Valley / Mining / Industry / Thermal / Nuclear / other (Specify)	Mining Project
2	Name of the project	Proposed Production of 14000 TPA, Area 14.33 ha (Kyanite, Sillimanite, Corundum, Pyrophyllite and Quartz) by Dighori Kyanite Mine
3	Clearance letter (s)/Om No. And Date	SEAC-2015/CR-106/TC-2 dated 16 <sup>th</sup> January 2016
4	Location: a) District (s) b) State (s) c) Location d) Latitude/Longitude	Bhandara Maharashtra Village Dighori, Taluka Lakhandur Latitude: 20 <sup>o</sup> 52'46" N Longitude: 79 <sup>o</sup> 54'43" E Refer Annexure I Key Plan
5	Address for Correspondence a) Address of the Concerned Project Chief Engineer (With Pin Code and telephone /telephone/Fax number)	Mr Vinod Bhujade, Managing Partner Dighori Kyanite Mine Village Dighori, Taluka Lakhandur District Bhandara (Maharashtra) Mobile: 9422133685
6	Salient features a) Of the project	It's a small manual mining project for minerals Kyanite, Pyrophyllite, Corundum, Sillimanite Total Plot area : 14.33 Ha
	b) Of the Environment Management Plans	<p><b>1. Waste Water Management</b> Waste water generation would be through toilets which shall be sent to septic tank via soak pit.</p> <p><b>2. Solid Waste Management</b> Solid waste generation would be in the form of top soil and overburden which shall be stacked along the lease boundary. Top soil shall be used for tree plantation and overburden shall be used for back filling.</p> <p><b>3. Greenbelt Development</b> Greenbelt will be developed along the boundary and also along the haul roads. 500 trees/ year plant species are proposed and will be planted.</p>
7	Breakup of the project area; a) Submergence area forest and non- forest b) other	Not Applicable

8	Breakup of the project affected population with enumeration of those losing house/dwelling units only Agricultural land only. Both dwelling units and Agricultural	NA
	Land and landless labours / artisans: SC, ST/ Adivasi	NA
9	<p>Financial details:</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year of price reference:</p> <p>b) Allocation made for environmental Management plans with item wise and year wise break-up.:</p> <p>c) Benefit cost ratio/Internal rate of return and the year of assessment:</p> <p>d) Whether (c) includes the cost of Environment management as shown in the about</p> <p>e) Actual expenditure incurred on the Project so far</p> <p>f) Actual expenditure incurred on the environmental management plans so far</p>	<p>Total Project cost is Rs 1.50 Crores</p> <p>Cost of Environment Management</p> <p>Capital Cost : INR 12.0 Lakhs OM cost :INR 5.0 Lakhs</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
10	<p>Forest land required</p> <p>a) The status of approval for diversion of Forest land for non-forestry use</p> <p>b) The status of cleaning felling</p> <p>c) The status of compensatory afforestation, If any</p> <p>d) Comments on the viability and sustainability compensatory afforestation programme in the light of actual field experience</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with Quantitative information	Not Applicable
12	<p>Status of construction</p> <p>a) Date of commencement (Actual and/ or planned)</p> <p>b) Date of completion</p>	November 2019

	(Actual and/ or planned)	
13	Dates of site visits a) The dates on which the project was monitoring by the Regional office on previous occasion, if any	NA
14	Details of correspondence with project Authorities for project authorities for Obtaining act on plans / information on status of compliance to safeguards others that the routine letters for logistic support for site visits. (the contain the details of all the letters issued so far but the later reports may cover only the letter issued subsequently)	N/A

## Six Monthly Compliance Status Report

Ref : SEAC-2015/CR-106/TC-2 dated 16<sup>th</sup> January 2016

To : M/s. Dighori Kyanite Mine

For : Proposed Production of 14000 TPA, Area 14.33 hectare located in village Dighori, Taluka Lakhandur, District Bhandara for mining of minerals Kyanite, Pyrophyllite, Corundum, Sillimanite & Quartz

Sr. No.	Condition	Compliance Status
i)	PP to ensure that regular health check - up of villagers in the vicinity and submit regular report to MPCB/ Director of Mine safety If cases of breathing problems by local residents are noticed.	Yes, this shall be complied soon after the Mine is operational
ii)	Existing pits on site must be filled up after mining extraction is over and the closer must be supervised by the District Mining Officer.	Yes, this will be complied
iii)	PP to ensure that transporting of Mine Limestone is done with covered truck.	Yes, this will be complied. The transportation shall be done by covered trucks / tippers
iv)	Construct strong retaining wall along river side without any weep holes.	Yes, this will be complied
v)	Project Proponent should follow prevailing mines act and rules as well as other direction given by Director General of mines safety measures.	Yes, this will be complied
vi)	District Collector should ensure the compliance and commitment from project proponent during Public Hearing, Project proponent should submit compliance to Dist. Collector & MPCB.	Yes, this will be complied
vii)	This Environmental Clearance is issued subject to obtaining NOC form Forestry & Wild Life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.	There is no wild life sanctuary or forest area within 10 km radius of the mine site.
viii)	This environmental clearance is issued subject to land use verification. Local authority/planning authority should ensure this with respect to Rules, regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. Judgements/orders issued by Hon'ble High NGT. Hon'ble Supreme Court if applicable in this matter should be verified by the Competent Authority before issuing the	Yes, this will be complied

	lease.	
ix)	“Consent for operate” shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any activity at the site.	The consent to Operate dated 21 <sup>st</sup> August 2019 from MPCB has been obtained. Refer Annexure I
x)	No land development/construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Yes, this will be complied
xi)	No additional land shall be used/ acquired for any activity of the project without obtaining proper permission.	Yes, this will be complied
xii)	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distance in vulnerable areas of the plant shall be ensured.	Yes, this will be complied as soon as the mine is operational
xiii)	Regular monitoring of the air quality, including SPM & SO <sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report according to MPCB.	Yes, this will be complied
xiv)	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	Yes, this will be complied
xv)	Proper housekeeping programs shall be implemented.	Yes, this will be complied
xvi)	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put of operation and shall not be restarted until the desired efficiency has been achieve.	Yes, this will be complied. All pollution control Equipments and measure shall be monitored strictly by the management.
xvii)	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable)	This is no provision of D G Set.
xviii)	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Yes, this will be complied
xix)	Arrangement shall be made that effluent and storm water does not get mixed.	Since this is small mining project and the mining activity shall be done manually therefore there shall not be any generation of effluent. Domestic effluent generated from toilets shall be sent to septic tank via

		soak pits
xx)	Periodic monitoring of ground water shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Yes, this will be complied
xxi)	Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite protective equipment like earplugs etc. shall be provided.	Yes, this will be complied.  There shall be no measure noise generating activity. The transport vehicles shall be maintained properly to reduce noise generation due to transportation.
xxii)	The overall noise levels in the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 rules, 1989.	Yes, this will be complied and there is also proposal for plantation within mining limits to attenuate noise generation.
xxiii)	Green belt shall be developed and maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agricultural Dept.	Yes, this will be complied
xxiv)	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning	Yes, this will be complied
xxv)	Occupational health surveillance of the workers shall be done on regular basis and records maintained as per Factories Act	Yes, this will be complied
xxvi)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material building	Yes, this will be complied
xxvii)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (handling and Management) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for the collections / treatment / storage / disposal of hazardous waste.	Yes, this will be complied

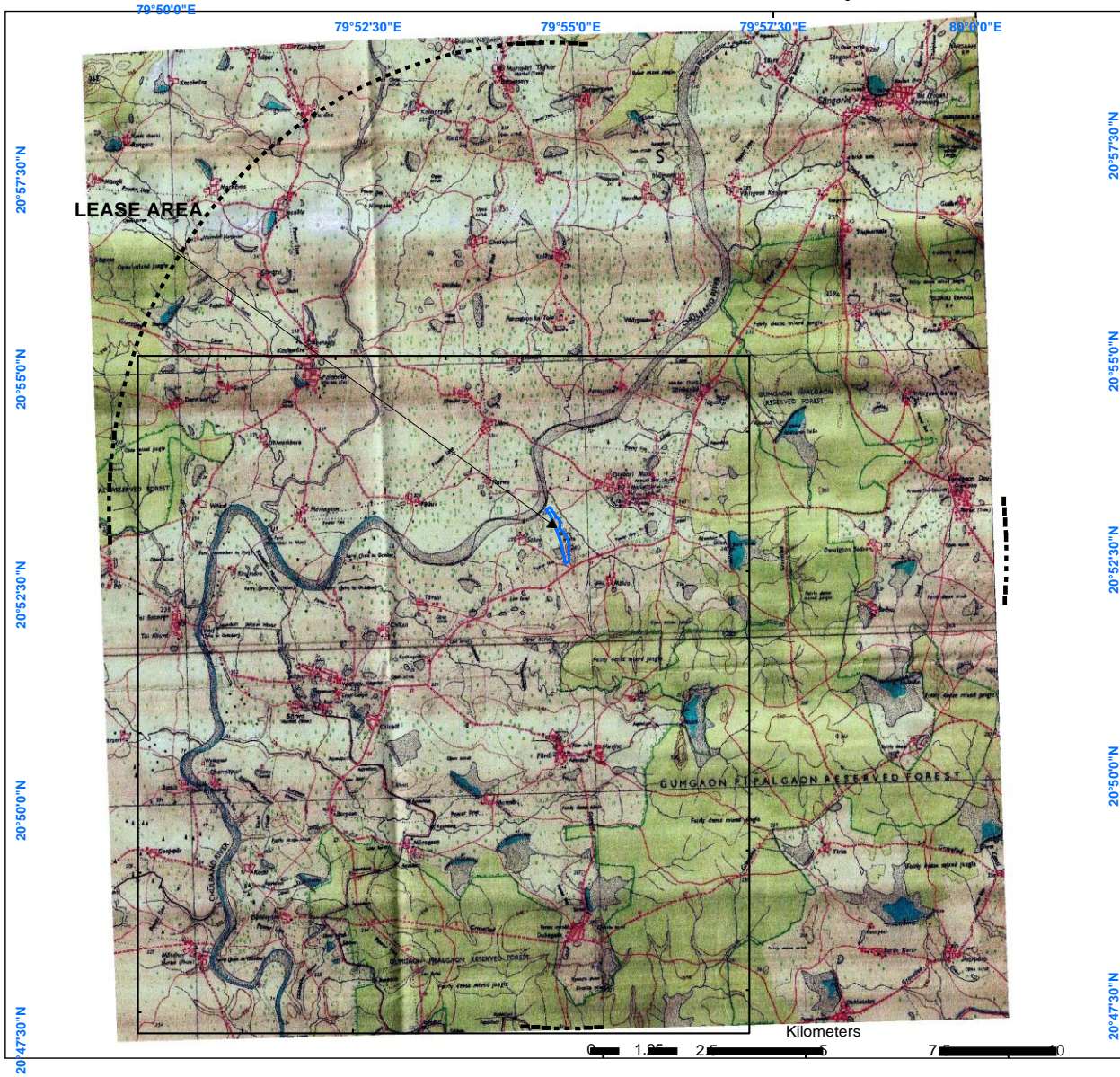
xxviii)	Regular mock drills for the on-site emergency management <sup>6</sup> plan shall be carried out. Implementations of changes / improvements required, if any, in the on-site management plan shall be ensured	Yes, this will be complied
xxix)	A separate environmental management cell with qualified staff shall be set up for implementation of stipulated environmental safeguards.	Yes, this will be complied
xxx)	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise breaks-up. These costs shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purposes and year - wise expenditure should reported to the MPCB & this department	Yes, this will be complied
xxxi)	The project management shall advertise at least in two local newspaper widely circulated in the region around the project, one of which shall be in Marathi language of local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>	Noted, this will be complied
xxxii)	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year	Noted and complied
xxxiii)	A copy of clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Yes, this will be complied
xxxiv)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of the monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and	Yes, this will be complied

	the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
xxxv)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Yes, this will be complied
xxxvi)	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by email.	Yes, this will be complied
xxxvii)	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	Yes, this will be complied Refer Annexure II.
xxxviii)	The Environment department reserves the right to revoke the clearance if the conditions stipulated are not implemented to the satisfaction of the) department or for that matter, for any other administrative reason.	Yes, this will be complied
xxxix)	<b>Validity of Environmental Clearance:</b> The environmental clearance accorded shall be valid for a period of 5 years.	Yes, Noted
xxxx)	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to access the adequacy of the	Yes, this will be complied

	condition(s) imposed and to incorporate additional environmental protection measures required, if any.	
xxxxi)	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution), 1981, the Environment (Protection) Act, 1986 and the rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments,	Yes, this will be complied
xxxxii)	Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone bench, Pune), New Administrative Building, 1 <sup>st</sup> floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Yes, this will be complied

# **ANNEXURES**

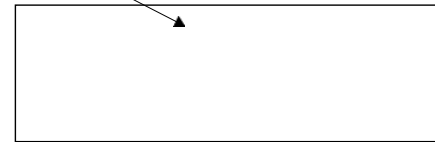
# ANNEXURE I- Key Plan



## STUDY AREA MAP OF THE 10 KM RADIUS



Toposheet No. 55P13  
LEASE AREA



Pillar No.	Latitude	Longitude
BP-1	20°52'41.40197" N	79°54'45.77170" E
BP-2	20°52'47.37142" N	79°54'45.34685" E
BP-3	20°52'50.252570" N	79°54'45.85582" E
BP-4	20°52'56.59755" N	79°54'45.32918" E
BP-5	20°53'01.54957" N	79°54'42.23081" E
BP-6	20°53'03.76965" N	79°54'39.371004" E
BP-7	20°53'09.17911" N	79°54'39.95347" E
BP-8	20°53'10.78241" N	79°54'38.77170" E
BP-9	20°53'12.10730" N	79°54'36.70086" E
BP-10	20°53'14.84600" N	79°54'35.06070" E
BP-11	20°53'16.37841" N	79°54'33.93174" E
BP-12	20°53'17.88430" N	79°54'33.75305" E
BP-13	20°53'18.85867" N	79°54'33.01157" E
BP-14	20°53'18.12842" N	79°54'31.16302" E
BP-15	20°53'17.48307" N	79°54'29.45286" E
BP-16	20°53'13.99330" N	79°54'32.69098" E
BP-17	20°53'00.63436" N	79°54'37.94929" E
BP-18	20°52'54.07453" N	79°54'40.10169" E
BP-19	20°52'43.06116" N	79°54'42.13344" E
BP-20	20°53'39.63153" N	79°54'42.76219" E

### Legend

- Lease Area
- Study Area

Project:  
DIGHORI QUARTZITE MINE  
(LEASE AREA-14.33HA.)  
VILLAGE-DIGHORI, TEHSIL-LAKHANDUR,  
DISTRICT-BHANDARA, M.S.  
PROJECT PROPONENT-SHRI P.M.GOLCHA  
LEASE AREA-14.33HA.

Project Proponent:  
Shri P. M. Golcha  
Environment Consultant:  
Open Arch Design & Enviro Solutions LLP  
302, Big Splash, Plot No. 78 & 79, Sector 17,  
Vashi, Navi Mumbai - 400703

Graphic Scale:  
0 500 1,100 2,200 3,300 4,400  
Meters

Prepared:	Reviewed:	Approved By:

# MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 24010437/24014701/24020781

Fax : 24024068/24023516

Website: <http://mpcb.gov.in>.

E-Mail: [jdair@mpcb.gov.in](mailto:jdair@mpcb.gov.in)



KALPATARU POINT, 3<sup>rd</sup> Floor,  
Sion-Matunga Scheme Rd. No.8,  
Opp. Sion Circle, Sion (East),  
Mumbai-400 022.

RED/SSI

Consent No. BO/JD(APC)/UAN No.00000074440/R/CC- 585 Date: 21/08/2019

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 Authorisation / Renewal of Authorisation 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. Dighori Kyanite Mine,  
Kh. No. 155, Vill. Dighori (Mothi),  
Tq. Lakhandur, Dist. Bhandara-441805.

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:

1. The Consent to Operate is granted for a period up to- 31/03/2021 or up to validity of mine lease period whichever is earlier.
2. The Consent is valid for the activity of Mining over a mining lease area of 14.33 Ha.

Sr. No.	Product Name	Maximum Quantity	UOM
1.	Mining of Kyanite, Sillimanite, Corundum, Pyrophyllite	4000.0	Tones/year
2.	Quartz	9000.0	Tones/year

### 3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from mining activity shall not exceed 6.5 CMD.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 1.0 CMD

(iii) **Trade Effluent Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1)	pH	Between	5.5 to 9.0
2)	Suspended Solids	Not to exceed	100 mg/l.
3)	BOD 3days 27 Deg. C.	Not to exceed	30 mg/l.
4)	Oil & Grease	Not to exceed	10 mg/l.
5)	Total Dissolved Solids	Not to exceed	2100 mg/l.
6)	Chlorides	Not to exceed	600 mg/l.
7)	Sulphate	Not to exceed	1000 mg/l.
8)	Nitrate Nitrogen	Not to exceed	10 mg/l.
9)	Phenol	Not to exceed	1 mg/l.
10)	COD	Not to exceed	250 mg/l.

- (iv) **Trade Effluent Disposal:** The treated effluent shall be used for spraying mine pits to the maximum possible extent and excess shall be discharged into local nalla only after achieving above standards. The project authorities shall take proactive initiatives for use of this excess water for agricultural purposes in the vicinity of mine.
- (v) **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 27° C. | Not to exceed | 30 mg/l.  |
- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be used on land for gardening / irrigation purpose only.
- (vii) **Non-Hazardous Solid Wastes:**
- | <u>Type of waste</u> | <u>Quantity</u>  | <u>Treatment</u> | <u>Disposal</u> |
|----------------------|--|------------------|-----------------|
| 1)                   | The waste i.e. over burden shall be disposed for by means of backfilling or Reclamation of the land. |                  |                 |
- (viii) **Other conditions:** The industry shall monitor effluent quality regularly.

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 Amended Rules, 2003 there under:  
water consumption for the following categories is as under:

Sr No	Consumption	Quantity
1	Domestic	2.0 CMD
2	Mine Discharge	
3	Spraying, Workshop, dust Suppression	4.5 CMD
4	Sand stowing	0.0 CMD
5	Other uses like gardening Etc	0.0 CMD

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 ug/m <sup>3</sup>  |
| (ii)  | Respirable Particulate Matter [RSPM] | Not to exceed | 100 ug/m <sup>3</sup>  |
|       | [Size less than 10 micrometer]       |               |                        |
| (iii) | Sulphur Dioxide (SO <sub>2</sub> )   | Not to exceed | 80 ug/m <sup>3</sup>   |
| (iv)  | Oxides of Nitrogen (NOx)             | Not to exceed | 80 ug/m <sup>3</sup> . |

**(B) Standards for Emissions of Air Pollutants:**

- |      |                 |               |                        |
|------|-----------------|---------------|------------------------|
| (i)  | TPM             | Not to exceed | 150 mg/Nm <sup>3</sup> |
| (ii) | SO <sub>2</sub> | 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, dump area, stock piles with the help of appropriate dust suppression system.
- (iii) Mineral metal shall be properly covered during transportation.
- (iv) The applicant shall carry 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 the 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 dust formation.
- (vi) Overloading of dumpers shall be avoided to prevent spillages.
- (vii) Correct type and quantity of explosive shall be used to avoid excess 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 vegetation for Stabilization.
- (ix) Coal/Mineral transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
--	N.A.	--

(III) **The applicant shall erect the chimney(s) of the following specifications:-**

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
--	N.A.	--

(IV) The applicant shall provide minimum three ambient air quality monitoring stations within mining area which should be monitored for SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub>, HC, CO etc. The Annual Arithmetic Mean of minimum 104 measurements in a year taken twice a week 24 hourly at uniform interval shall conform to the National Ambient Air Quality Standards prescribed under Air (Prevention and Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986. The records of results of continuous monitoring done shall be made available for inspection to the officers of the Board.

(V) The applicant shall take adequate measures for control of noise levels from its own Sources as follows:

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 surrounded by a green belt of sufficient width as per the guidelines of Design Institute Ltd. (A Subsidiary of Coal India Ltd.) if the residential complexes are very close).

(VI) **Other Conditions:**

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.

**6. CONDITIONS UNDER HW (M,H &TM) RULES, 2008:**

(i) The applicant shall handle hazardous wastes as specified below:

Sr.	Item No. as	Type of Waste	Quantity	Disposal

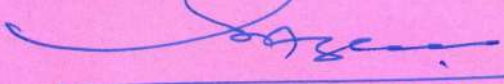
No.	per Sch-I		
Industry shall not generate any hazardous waste.			

**7. General conditions:**

- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, no. of trees surviving as on 31<sup>st</sup> March of the year and no. of trees planted by September end.
  - (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
  - (iii) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.** 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.
  - (iv) The firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30<sup>th</sup> September every year.
  - (v) The applicant shall install a separate 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. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption alongwith Environmental statement.
  - (vi) 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. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  - (vii) 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. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - (viii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
  - (ix) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants. The project authorities shall work out the feasibility of deploying mechanically closed trucks for transportation and submit action plan within 3 months.
- 8.** The project authorities shall identify critical road sections where the dust generated from coal/mineral transportation is likely to affect human population and/or agriculture and take up works of making those roads pucca and clean, so as to reduce dust emissions in 3 months.
- 9.** The project authorities shall install well designed water sprinkling arrangements including fixed and mobile sprayers for dust suppression. The augmentation/ up gradation proposal for dust suppression system shall be submitted in 3 months.

10. The project authorities shall give suitable training to field level mine personnel and truck drivers on environmental protection and pollution control.
11. The applicant shall comply with the conditions stipulated in the Environment Clearance granted by Environment Department, GoM vide letter No. SEAC-2015/CR-106/TC-2 dated 16/01/2016.
12. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
13. Industry shall implement mechanical close type transportation system for coal/metal minerals handling trucks and also introduce closed type conveyer belt transportation of coal/minerals from mines.
14. The applicant shall comply conditions stipulated in NOC granted by Central Ground Water Authority vide NOC No.CGWA/NOC/ MIN/ ORIG /2019/5318 dtd.21/05/2019..
15. The applicant shall submit the bank guarantee of Rs. 25,000/- drawn in favour of Regional Officer, MPCB Nagpur within 15 days valid for the period up to 31.07.2021 towards operation and maintenance of pollution control system so as to achieve the consented standards.
16. Capital investment of the industry for expansion is Rs. 61.20/-Lakhs (existing CI. Rs.57.98 Lakhs + proposed expansion CI Rs.3.22 Lakhs).

For and On Behalf of the  
Maharashtra Pollution Control Board,

  
(Dr. V.M. Motghare) 14/8/19  
Joint Director (Air Pollution Control)



To,  
M/s. Dighori Kyanite Mine,  
Kh. No. 155, Vill. Dighori (Mothi),  
Tq. Lakhandur, Dist. Bhandara-441805.

Copy to:

1) Regional Officer, MPCB, Nagpur. 2) Sub-Regional Officer, MPCB, Nagpur-I.

**They are directed to obtain the BG from the industry as per consent condition No. 15 and submit the compliance report along with the monitoring results within one month.**

3) Chief Accounts Officer, MPCB, Mumbai.  
**Received Online Consent fee of –**

Sr. No.	Amount(Rs.)	DR No.	Received date	Bank
1	Rs.20600/-	5451889	12/06/2019	Bank of Maharashtra

4) Cess Branch, MPCB.

5) Master file.

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC-2015/CR-106/TC-2  
Environment department  
Room No. 217, 2<sup>nd</sup> floor,  
Mantralaya Annexe,  
Mumbai- 400 032.  
Dated: 16 January, 2016

To,  
M/s. Dighori kyanite Mine  
Village Dighori, Tehsil Lakhandur,  
Dist. Bhandara

**Subject:** Environment clearance for Proposed Production of 14000 TPA, Area -14.33 hectares is located at village Dighori, Tehsil Lakhandur, Dist. Bhandara by M/s. Dighori kyanite mine (Kyanite and Pyrophyllite Mine).

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 98<sup>th</sup> meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 87<sup>th</sup> meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category I(a) B1 as per EIA Notification 2006.

**Brief Information of the project submitted by Project Proponent is as:**

Name of the Project	Dighori Kyanite, Sillimanite, Corundum, Pyrophyllite & Quartz Mine At Khasra No.- 155 Village : Dighori Taluka : Lakhandur District : Bhandara State : Maharashtra Area (14.33 Ha)
New project/Expansion in existing project/Diversification in exiting	Application for environmental clearance submitted to SEAC on 2/10/2009.
If expansion/ Diversification, whether environmental clearance has been obtained for existing project	New Project

Name, address, email & contact number of Proponent	Lessee: P.M. Golchha Power of Attorney: Vinod Bhujade Address : 1 <sup>st</sup> Floor Akre complex, Satkar Nagar, Nagpur Road, Bhandara Ph No. : 9422133685 Email : vinodbhujade@yahoo.com						
Name of Consultant	POLLUTION & ECOLOGY CONTROL SERVICES						
Type of project: Activity serial Number as per MoEF Notification (amended)	1 (a) as per S.O.1533dt 14.09.06 The project is categorized as Category 'B'						
Total plot Area: Built up Area : Notified Industrial Area/Estate:	14.33 Ha						
TOR given by SEAC?	TOR granted during 31 <sup>st</sup> SEAC consideration dated 29 <sup>th</sup> July 2010.						
EIA Submitted?	EIA is submitted for Environmental Clearance.						
Estimated cost of the project :	Rs. 1.50 Crores						
Location details of the project :	1 Latitude - 20 <sup>o</sup> 52'46" N 2 Longitude -79 <sup>o</sup> 54'43.0" E 3 Elevation above Mean Sea Level (metres) – 340m 4 Nature of terrain (hilly, valley, plains, Coastal plains etc.) – Plain(Undulating) 5 Nature of Soil (sandy, clayey, sandy loam etc.) – The area is covered with thin mantle of lateritic soil with screen of quartzites.						
Water Conservation	<p>The sedimentation tank will be provided. After adequate settling of solids the rain water which will be accumulated in the pit during monsoon will be used for plantation &amp; dust suppression etc. Water supply- Total water required: 6.5 KLPD Source: - River/Groundwater/ Industrial Area (if groundwater, commitment letter to be obtained from Central/State Ground water authorities)</p> <table border="1"> <tr> <td colspan="2">Total Water Requirement: 6.5 KLPD</td> </tr> <tr> <td>(iv)</td> <td>Dust Suppression &amp; Green belt: 4.5 KLPD</td> </tr> <tr> <td>(v)</td> <td>Drinking: 2.0 KLPD</td> </tr> </table>	Total Water Requirement: 6.5 KLPD		(iv)	Dust Suppression & Green belt: 4.5 KLPD	(v)	Drinking: 2.0 KLPD
Total Water Requirement: 6.5 KLPD							
(iv)	Dust Suppression & Green belt: 4.5 KLPD						
(v)	Drinking: 2.0 KLPD						
Green Belt Development	Green belt area: 4.72 ha of the lease area is proposed for plantation at the end 20 years. Proposed nos. of trees with plant species—500 Trees/Year Species —						
Energy	Total Power Requirement (MW); Source of Power : Maharashtra State Electricity Distribution Co. Ltd.						

Environmental Management plan Budgetary Allocation	Capital cost of the project (as proposed to approved by the funding agency/financial Institutions (Rs. Lakhs)-1.50 Cr		
	Cost of environmental protection measures (Rs. Lakhs)-12 Lakhs		
	S. No.		Capital Cost
	1	Air Pollution Control	6.00
	2	Water Pollution Control	2.00
	3	Noise Pollution Control	
	4	Environment Monitoring and Management	
	5	Reclamation borrow/mined area	
	6	Occupational Health	2.00
	7	Green Belt	2.00
8	Solid waste management		
	Total	12.0	
			Recurring Cost per annum
			1.00
			0.50
			2.00
			1.00
			0.50
			5.0
Public Hearing details :	<p>A. Date of Advertisement: 29/05/2011</p> <p>B. Newspapers in which the advertisement appeared (With copies) -The Hitavada and Lokmat</p> <p>C. Date of Hearing: 30.06.2011.</p> <p>D. Panel Present :</p> <ul style="list-style-type: none"> <li>• Chairman- Additional District Magistrate, Bhandara</li> <li>• Member - Representative of MPCB, Nagpur -Regional Officer</li> <li>• Convener - I/c Sub-regional officer, Bhandara</li> </ul>		

Production profile (tonnes/year)

Name of Products, Byproducts and Intermediate Products	Existing	Proposed activity (new/modernization/expansion)	Total
Main Products		<ul style="list-style-type: none"> <li>• Production capacity of Kyanite , Sillimanite, Corundum and Pyrophyllite - 4,000 tonnes/year</li> <li>• Quartz - 9,000 tonnes/year</li> </ul>	<p>4,000 tonnes/year</p> <p>9,000 tonnes/year</p>

3. The proposal has been considered by SEIAA in its 87<sup>th</sup> meeting decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:


- (i) PP to ensure that regular health checkup of villagers in the vicinity and submit regular report to MPCB/Director of Mine Safety if cases of breathing problems by local residents are noticed.
- (ii) Existing pits on site must be filled up after mining extraction is over and the closer must be supervised by the District Mining Officer.
- (iii) PP to ensure that transporting of mine Limestone is done with covered truck.
- (iv) Construct strong retaining wall along river side without any weep holes.

- (v) Project proponent should follow prevailing mines act and rules as well as other directions given by Director General of mines safety measures.
- (vi) District collector should ensure the compliance and commitment from project proponent during Public Hearing. Project proponent should submit compliance to Dist. Collector & MPCB.
- (vii) This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
- (viii) This environmental clearance is issued subject to land use verification. Local authority /planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. Judgments/orders issued by Hon'ble High Court, Hon'ble NGT, Hon'ble Supreme Court if applicable in this matter should be verified by the Competent Authority before issuing the lease.
- (ix) "Consent for operate" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any activity at the site
- (x) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (xi) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (xii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (xiii) Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (xiv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (xv) Proper Housekeeping programs shall be implemented.
- (xvi) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
- (xvii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable).
- (xviii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (xix) Arrangement shall be made that effluent and storm water does not get mixed.
- (xx) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xxi) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xxii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.

- (xxiii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xxiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xxv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xxvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xxvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xxviii) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xxix) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxx) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.
- (xxxi) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxxii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
- (xxxiii) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxxiv) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxxv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxxvi) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the

status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

3. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years
6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
7. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
8. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1<sup>st</sup> Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
(Malini Shankar)  
Member Secretary, SEIAA

**Copy to:**

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune - 411014.
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Collector, Bhandara
7. DMO, Office of the Collector, Bhandara
8. Regional Office, MPCB, Nagpur
9. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
10. Select file (TC-3)

(EC uploaded on 16/1/16 )