

MAHARASHTRA POLLUTION CONTROL BOARD

Phone:24010437/24020781
24045589/24037124/24035273
Fax: 24024068 /24023516



Kalpataru Point, 3rd & 4th floor,
Sion, Matunga Scheme Road No. 8,
Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E)
Mumbai - 400 022.

No. BO/JD(APC) /TB-3/B- 1245

Date: 24/03/2017

CIRCULAR

Sub: Policy for grant of Consents to Stone Quarries in the State of Maharashtra.

- Ref:** 1) Revised Classification of Industrial Sectors published by Central Pollution Control Board dated 07/03/2016.
- 2) Minutes of Consent Committee Meeting of the MPC Board dated 16/06/2016.
- 3) Minutes of Consent Appraisal Committee Meeting of the MPC Board dated 10/10/2016.

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The Central Pollution Control Board has issued modified directions u/s 18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 on 07/03/2016 regarding harmonization of classifications of industrial sectors under Red / Orange / Green / White categories. The stone quarrying activity does not covered in this classification of the industries.

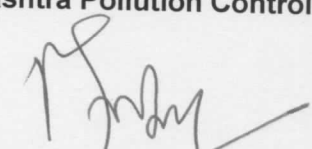
The Maharashtra Pollution Control Board has received various applications for grant of Consent to stone quarrying activities. In order to ascertain the category of the stone quarry activity and to cover this activity under the consent management of the Board, this matter was discussed in the Consent Committee meeting of the Board held on 16/06/2016 and Consent Appraisal Committee meeting of the Board held on 10/10/2016. In these meetings, the following decisions were taken for grant Consent to Establish/Operate to the stone quarry activity:

- I. Stone quarry having area 5 Hector and above are covered under the Consent regime.
- II. Stone quarry having area below 5 Hector will comes under the purview of the District Collector/s in the State of Maharashtra, as per their jurisdiction and they will implement the Guidelines for Environmentally Sound Operations for Stone Quarries issued by the Maharashtra Pollution Control Board.
- III. The stone quarry activity is not allowed in the eco sensitive area declared by the Government of India/Government of Maharashtra/and any other Government competent authority.

The District Collector shall strictly implement & impose the said guidelines at the time of granting permission to the stone quarrying activities below 5 Hectors. They shall also ensure that the stone quarries having area 5 Hector and above shall obtain valid consent to establish/operate from the Maharashtra Pollution Control Board within next 30 days from the date of issuance of this circular.

These Guidelines are come into force with an immediate effect from the date of issuance of this circular and all the District Collectors in the State of Maharashtra are hereby directed to implement the above guidelines. In addition, it is directed to all concerns to implement the above Guidelines within 30 days from the date of issue of this circular.

**For & behalf of the
Maharashtra Pollution Control Board,**


(Dr. P. Anbalagan, IAS)
Member Secretary

D.A.: Guidelines for Stone Quarry.

Copy submitted for information to:

- Hon'ble Additional Chief Secretary (Environment), Govt. of Maharashtra, Mantralaya, Mumbai
- And Hon'ble Chairman, M.P.C. Board, Mumbai.

Copy for Information and implementation to:

- The All Divisional Commissioner, State of Maharashtra.
- The All District Collectors, State of Maharashtra.
- Directorate of Geology and Mining, GoM, Civil Line, Nagpur.
- The All District Mining Officer, State of Maharashtra.

D.A.: Guidelines for Stone Quarry.

Copy to:

- Principal Scientific Officer / Assistant Secretary (Technical)/Joint Director (Air Pollution Control)/Joint Director (Water Pollution Control) /RO (HQ)/ RO (Cess), M.P.C. Board, Sion, Mumbai-400022.

Copy for information and necessary action to:

1. **The all Regional Officers/ Sub Regional Officer, M.P.C. Board** -They are directed to serve the copy of the said circular along with Guidelines for Environmentally Sound Operations for Stone Quarries to the concerned District Collectors in the State of Maharashtra as per their jurisdiction.

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GUIDELINES
FOR
ENVIRONMENTALLY SOUND
OPERATIONS FOR STONE QUARRIES



MAHARASHTRA POLLUTION CONTROL BOARD
KALPTARU POINT, SION (E),
MUMBAI- 400 022

DECEMBER 2006

5. Natural gradient of slope should be maintained during quarrying operations, slope of the footwall side (Slope in the direction in which mining does not exist) should be properly stabilized by planting adequate number of trees of suitable species in consultation with local Forests Department so as to have soil binding vegetation
6. In the case of murrum, the entire weathered soil or murrum shall not be excavated leading to exposure of hard rock, instead, a capping or at least half a meter layer of murrum shall be left so that it can support vegetation and plantation that will be done later on.
7. Water course, if any, from a higher slope, should be properly diverted out of quarry and shall be safely channeled out of any nearby human settlement.
8. During quarrying operations, the water should be sprayed at least once in a day over the roads at the quarry sites and nearby areas.
9. Kachha road, used for transportation of murrum, from the quarry site shall be invariably sprayed by water during these operations. In order to minimize dust pollution, measures such as adoption of hoods at transfer points, vulcanizing of conveyer belt joints, under belt cleaning devices, and installation of dust suppressions and/or dust extraction system for conveyance shall be adopted.
10. The kachha road leading to the quarry shall have avenue plantation on to arrest the dust pollution.
11. No blasting shall be permitted if a public road, railway line or any human settlement is located within 500 meters from the quarrying site.
12. Residences for laborers and related temporary structures should be constructed at least 500 meters away from the place of blasting as well as from the place of quarrying. Heavy blasting using the heavy machinery shall be prohibited.
13. The Development Permission for quarrying shall be granted for a specific period, after which fresh permission for further quarrying will be necessary. In granting such fresh permission, the Planning Authority/ District Collector/ Sub- Divisional Officer/ Tehsildar shall review the performance of the quarry operator in implementing the approved excavation and restoration plans, air pollution control measures undertaken and adherence of these guidelines while carrying out the quarrying operations

SPECIFIC GUIDELINES FOR SOURCEWISE POLLUTION CONTROL MEASURES TO BE FOLLOWED FOR STONE QUARRIES.

AIR POLLUTION

DRILLING :

- 1) Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
- 2) Deep wetting of drilling zones shall be done by water sprinkling before starting drilling.
- 3) During the drilling operations the efforts shall be made to reduce dust generation by taking appropriate measures

BLASTING

- 1) Proper blasting whole geometry shall be designed.
- 2) Blast site shall be wetted before and after blasting operations are completed.
- 3) Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation.
- 4) Blasting shall be conducted only during favorable weather conditions and only during the day time and permissible hours.
- 5) The blasting operations shall be given publicity in the local area through Davandi and other available media so that local people become aware of the blasting activities being undertaken in the area.
- 6) The vibrations should be monitored periodically in consultation with the local Mining authorities.
- 7) The storage of the explosives and its transfer to and from the quarry area shall be strictly in accordance with the conditions listed in the permission granted by Explosives Department

Heavy Earth moving Machinery(HEMM):

- 1) The operator/ transporter shall carry out regular maintenance of the machinery and vehicles.
- 2) The speed limit shall be adhered to.

- 3) Operator's cabin of the HEMMs should preferably be air conditioned at least air tight.
- 4) The smoke emission should conform to the standards notified in Motor Vehicle Act.
- 5) The trucks carrying the mined products shall be covered with tarpaulin so that there are no fugitive emissions during transportation.
- 6) The transportation should not through the busy roads in the city/towns/villages if by pass roads are available

HAUL ROADS :

- 1) All the haul and service roads shall be metttled and well maintained.
- 2) Unmetttled haul roads shall be free of ruts and pot holes.
- 3) All haul roads and surface roads shall be regularly sprayed with water.
- 4) Plantation alongside haul roads (avenue plantation) shall be carried out done.
- 5) Mined material receiving pits are shall be located close to the quarry to reduce the haul length of the dumper

OVERBURDEN :

- 1) Non-operative dumps shall be subjected to technical and biological reclamation.
- 2) Plantation over and around over burden dumps shall be carried out to ensure stability of slopes, prevention of dust by wind action and soil erosion during the run off.
- 3) Wetting of surface of O. B. dump shall be regularly practiced.

NOISE POLLUTION

BLASTING :

- 1) Blast holes shall be judiciously charged.
- 2) No blasting shall be done when there is low cloud ceiling.

- 3) Millie second delayed detonation to be used.
- 4) All other guidelines of the Explosives department and Mining Department regarding blasting operations shall be strictly adhered to.

DRILLING :

- 1) The workers shall be provided appropriate personal protective equipment viz. ear mufflers/ ear plug or noise proof cabins

Heavy Earth moving Machinery (HEMM) :

- 1) The engine exhausts of HWMM to be fitted with mufflers and cabins shall be noise proof.
- 2) HEMM shall be properly maintained.
- 3) Operators shall be provided with ear mufflers / ear plugs.
- 4) Imposition of speed restriction of HEMM near residential area shall be enforced.
- 5) The haulage path of the HEMM shall be re-routed so that it is away from the residential area.

WATER POLLUTION

SURFACE:

- 1) Garland drain around quarry excavations shall be constructed.
- 2) OBD tops shall be dressed in to a shallow saucer shape
- 3) Contour drains along slope of OBD dumps shall be constructed.
- 4) OBD run offs shall be desilted through settling tanks before discharge in to natural streams, lakes or any other water body.

WORKSHOP:

- 1) Effluent coming out of workshop shall be treated in a plant containing and Oil/ grease trap (if required) and sedimentation tank. The treated water shall be stored and reused in the workshop itself as far as possible. The treated waste water shall not find its way to the streams, lakes or any other water bodies

WORK ENVIRONMENT:

Statutory Regulations and guidelines of the Director General of Mines Safety and Department of Explosives shall be strictly followed.