1	2	3	4	5	6
7.	Tank of Shri. Vazreshwar Temple at Shree Shanta-durga Ballikarin Saunsthan	119	7	Balli, Quepem, Goa.	

By order and in the name of the Governor of Goa.

Dr. *Nilesh B. Fal Dessai*, Director, Archaeology & ex officio Joint Secretary.

Panaji, 7th February, 2024.

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Department of Environment & Climate Change

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Notification

2-97-2023/ENVT&CC/DIR/1403

Environmental guidelines for Stone Crushing units dated July, 2023 issued by Central Pollution Control Board (CPCB) for implementation in the State of Goa.

5.0 *Environmental Guidelines for Stone Crushing Units.*— The stone crushing units should adopt following environmental guidelines to prevent/suppress fugitive dust emissions from their operation:

Source of emission	Measures to be taken
1	2
Unloading of raw material for storage	Water sprinkling with adequately designed nozzle which produce tiny droplets of water should be provided during raw materials unloading.
Unloading of raw material into hopper	• Three sides and top should be covered and one side may be kept open for vehicular movement. • Water sprinklers should be provided on approach roads.
Primary Crushing/Jaw Crusher	• Crusher should be completely enclosed by GI/MS sheets on top and at least three sides completely from the ground level. One side should have provision of movable sheet/ /door for movement/maintenance. • Primary crushers/jaw crushers should be covered with tarpaulin/cotton cloth/suitable materials to contain fugitive dust emissions. • Water sprinkler system with adequately designed nozzle which produce tiny droplets of water should be provided at primary crusher/jaw crusher so that fugitive emissions are contained and amount of water sprayed should be optimized.
Secondary Crushing	• Crusher should be completely enclosed by GI/MS sheets on top and at least three sides completely from the ground level. One side should have provision of movable sheet/ /door for movement/maintenance. • Dry extraction cum bag filter followed by cyclone to be provided for control of emissions.

1	2
Screening	• Crusher should be completely enclosed by GI/MS sheets on top and at least three sides completely from the ground level. One side should have provision of movable sheet/ /door for movement/maintenance. Door to be kept closed during operation. • Flexible covers where conveyors pass through the screen house should be installed at entries and exits of conveyors to screen house. • Dust extraction system connected with bag filter to be provided. • Provision of water mist sprinkling systems with adequately designed nozzle which produce tiny droplets of water should be made at inlet/outlet of screens.
Tertiary crushing	• Crusher should be completely enclosed by GI/MS sheets on top and at least three sides completely from the ground level. One side should have provision of movable sheet/ /door for movement/maintenance. Dust extraction system connected with bag filter to be provided. • Provision of water mist sprinkling system should be made with adequately designed nozzle which produce tiny droplets of water.
Conveyor belts	Conveyor belts should be properly covered from node to node with a thick sheet of suitable material along with water sprinkling system with adequately designed nozzle which produce tiny droplets of water.
Discharge points	Flexible Telescopic chute from top of discharge point to the ground level should be provided.
Product storage	• Properly designed telescopic chute of adequate length of suitable material should be provided at ends of conveyor so that dust generated from this section is contained at source. • All open stockpiles for aggregates of size above 5 mm should be kept sufficiently wet by water spraying. • Stockpiles of aggregates of 5 mm size or less should be covered to ensure that same is not carried away (or whipped out) by wind.

5.1 *General Measures.— i*. Wind breaking wall: GI/MS/brick wall should be provided along the periphery of crusher. Height of the wall should be 3-ft more than the highest node of the crusher.

ii. Roads: Metalled/concrete roads should be provided within the premises. Ramps and the entire ground area inside the premises should also be metalled.

iii. Housekeeping: To curb the air pollution in the crusher premises, arrangement of rotating water sprinkling system/fogger/anti-smog gun should be provided. Water sprinklers should have adequately designed nozzle which produce tiny droplets of water, as such system is more effective in dust control with significant reduction in consumption of water. Fine dust

accumulated and bag filters in the crushing area should be cleaned at regular intervals and the collected dust should be stored in sacks for further sale or disposal.

iv. Plantation: 2-3 rows of tall trees should be planted around the periphery of crusher.

v. Housing should be open for movement of mechanical drivers, conveyor belts, etc., should be sealed properly with flexible rubber flaps.

vi. Name of the unit, contact details of the owner and address of the unit, plant capacity and date of issue of CTE/CTO from SPCBs/ /PCCs should be displayed on the display board at the entrance.

vii. Transportation: Vehicles carrying any kind of material should be completely covered.

viii. Regular wetting of roads should be done to suppress dust within the premises to control dust emission re-suspension.

ix. Water consumption and handling: Unit should provide settling tanks of appropriate size and recycle & reuse of the water in process. Crusher should provide a water storage tank with adequate capacity. In case of use of groundwater, stone crushing unit should obtain permission to extract groundwater from the Central Ground Water Authority (CGWA)/Ground Water Department (GWD) of the State/UT. Unit should maintain proper log book of consumption of fresh water. Depending on availability, efforts may be made to use STP treated water instead groundwater to control emissions from process activities.

6.0 *Regulatory/Monitoring Mechanism for Stone Crushing Unit.— i*. Stone crushing unit should obtain Consent to Establish (CTE) and Consent to Operate (CTO) from the concerned SPCBs/PCCs.

ii. Unit while applying for CTO/renewal of consent, should upload the duly filled checklist attached at Annexure-1 along with digitally tagged photographs and videos of the crushing unit to ensure compliance of the conditions mentioned in the guidelines. SPCBs/PCCs should digitally verify the said conditions before issuance of CTE/CTO/ /renewal of consent.

iii. CCTV/PTZ cameras should be installed at the entrance and all corners of the premises of the unit covering entire area with minimum of 30 days data storage.

iv. Stone crushing unit shall comply with emission norms prescribed under the Environment (Protection) Rules, 1986 and conditions laid down in CTO by concerned SPCB/PCC.

v. Online/manual ambient air monitoring systems to be installed in crusher zone as per CPCB/SPCB guidelines–in upwind and downwind directions.

vi. Stone crushing unit should develop green belt as per the plan approved by concerned Department of the State/UT.

vii. Local authorities should associate with stone crusher associations for the construction of metalled road in the entire crusher zone.

viii. A District Level Committee should be constituted under chairmanship of District Magistrate/Deputy Commissioner so that surprise inspections for surveillance of stone crushing units located under their jurisdiction can be carried out on regular basis.

ix. Health survey of workers should be carried out by the stone crusher on half-yearly basis.

x. New Crushers should be allowed to operate only in dedicated crusher zones as per the sitting policies of SPCBs/PCCs.

xi. Stone crusher unit should be operated only during day time (i.e. 6.00 a.m. to 10.00 p.m.) to avoid inconvenience to the nearby residents due to ambient noise.

This issues with the approval of the State Government vide U. O. No. 281 dated 17-11-2023.

By order and in the name of the Governor of Goa.

Johnson B. Fernandes, Director/ex officio Joint Secretary (Environment & Climate Change).

Panaji, 5th January, 2024.

ANNEXURE-1

Format/Checklist for SPCBs/PCCs before issuance of CTE & CTO

Sr. No.	Fugative Emission Source Locations	Checklist for compliance of conditions of Environmental guidelines	Yes/No
1.	Unloading areas of raw material, primary crusher, screener, conveyors belts and transfer points	Water sprinklers installed with adequate designed nozzles (Upload photo/videos).	
2.	Primary crushers, Secondary crushers, screeners and tertiary crushers	Enclosures by GIMS sheets on top and atleast three sides completely from the ground level (Upload photo/videos).	
3.	Secondary, tertiary crushers and screener	Dry extraction cum bag fiter followed by cyclone (Upload photo).	
4.	Covering of conveyor belts from node to node with a thick sheet of suitable material	Covering of conveyor belts (Upload photo).	
5.	At discharge points	Flexible Telescopic chute from top of discharge point to the ground level (Upload photo).	
6.	GIMS/brick wind breaking wall of 3 ft. more than the highest node of the crusher along the periphery of crusher.	Wind breaking wall (Upload photo).	
General			
7.	Wind breaking wall	GI/MS/brick wind breaking wall of 3-ft. more than the highest node of the crusher along the periphery of crusher (upload photo).	
8.	Roads	Metalled/concrete roads within the premises ramps and the entire ground area inside the premises should also be metalled.	
9.	Suppression of dust within the premises	Arrangement of rotating water sprinkling system/fogger/anti-smog gun in the premises to suppress dust within the premises to control dust emission re-suspension.	
10.	Green Belt	Plantation of 2-3 rows of tall trees around the periphery of crusher.	
11.	Display board	Display board at the entrance having name of unit, contact details of owner and address of unit plant capacity and date of issue of CTE/CTO from SPCB/PCC.	
12.	Covering of vehicles	Covering of vehicles carrying any king of material.	
13.	CCTV/PTZ camera	CCTV/PTZ cameras installed at the entrance and all corners of the premises of unit covering entire areas with minimum of 30 days data storage.	
14.	Photos/videos	Upload photographs/videos ensuring compliance of all conditions as mentioned in the guidelines while applying CTE/ /CTO/Renewal.	