



Government of Jammu and Kashmir
J&K Pollution Control Committee
Jammu

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Sub: - Revised Guidelines including Siting Criteria for Establishment and Operation of Stone Crushers and Hot Mix Plants in J&K.

Order No. 37 -JKPCC of 2023

Date: 27-02-2023

In order to regulate the Stone Crushers / Hot Mix Plants in the Union Territory of Jammu and Kashmir, the Department of Mining, Government of J&K vide SO 60 dt. 23.02.2021 has issued the Jammu and Kashmir Stone Crushers / Hot and Wet Mixing Plants Regulation Rules, 2021, wherein it is stipulated as under :-

Rule 3(1) A Stone Crusher /Hot and Wet Mixing Plant is not a mining unit but a processor of minerals obtained from a source with a valid mineral concession. Such units shall be regulated by laws, rules and other provisions applicable to industrial units.

Rule 3(2) No permission/license would be needed by a stone crusher/hot and wet mixing from the Mining Department except where it also engages in mining, which activity shall be regulated by laws / rules applicable to mining.

Rule 3 Stone Crusher / Hot and Wet Mixing Plant shall establish /operate only on securing: -

- (i) Consent to Establish/Operate from the Jammu and Kashmir Pollution Control Board issued as per the procedure/guidelines and siting criteria prescribed by the Jammu and Kashmir Pollution Control Board.
- (ii) No objection Certificate from Deputy Commissioner concerned regarding title verification of land and its usage; and
- (iii) Registration with the District Industries Centre (DIC) if the unit holder intends to avail any incentives available in the Industrial Policy.

Accordingly in pursuance to the SO 60 dated 23-02-2021, the revised guidelines as under including siting criteria for establishment and operation of Stone Crushers and Hot Mixing Plants in the Union Territory of Jammu and Kashmir shall be applicable with immediate effect.

2. Consent to Establish / Operate for Stone Crushers and Hot Mix Plants: -

In light of above, the Consent to Establish / Operate under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 shall be processed by the J&K Pollution Control Committee through online portal (www.jkocmms.nic.in) for which proprietor of such units falling within the provisions of SO 60 dated 23-02-2021 has to fulfill the following operational guidelines including siting criteria henceforth.

3. Revised Siting Criteria for establishment and operation of Stone Crushers and Hot Mix Plants: -

The siting criteria applicable as per guidelines issued vide No. SPCB/PS/CH/PA/IV/131-135 dt. 09.02.2004 is revised as below and shall be applicable w.e.f. date of issuance of guidelines.

S. No.	Siting Parameters	Siting Criteria for Existing Stone Crusher and Hot Mix Plants operating with Consent to Establish / Operate before date of issuance of guidelines	Siting Criteria for establishment of New Stone Crushers and Hot Mix Plants after the date of issuance of guidelines	Remarks
1.	a) National Highway in plain areas	100 m	100 m	-
	b) National Highway in sub Mountainous areas	50 m	50 m	-
2.	a) State Highway and other District roads in plain areas.	50 m	50 m	-
	b) Highway and other roads in Sub Mountainous areas.	50 m	30 m	-
3.	Jammu and Srinagar City Municipal Limits	01 Km	01 Km	Critical Criteria
4.	Nearest Residential Area / Abadi	500 m	500 m *	Critical Criteria
5.	Health Care Establishment	02 Km	02 Km	Critical Criteria
6.	Educational Institution or other similar institution	01 Km	01 Km	Critical Criteria
7.	a) Eco-Sensitive Zone for Protected Areas	-	As per Notification issued by MoEFCC, GoI / Hon'ble Supreme Court Orders	Critical Criteria
	b) Notified Bird Sanctuary / National Park / Wild Life Area	01 Km	-do-	-
8.	Forest Land	01 Km	300 m	-
9.	Nearest Tourist Complex/Resorts	01 Km	01 Km	-
10.	Approved Water Supply of 20 Kilo liter	01 Km	01 Km	-
11.	Historical Monuments and Heritage sites identified by the ASI	-	500 m	-
12.	a) Orchards / Saffron Fields	Waived off	a) 500 m	-
	b) Abi-awal		b) 200 m	
13.	Controlled Area	Waived off	200	-

* There should not be a single residential house within 150 meters from proposed sites.

Definitions: -

- i) **Residential Area /Abadi:** 20 or more residential houses within radius of 500 m shall constitute residential area as per orders of Hon'ble Supreme Court of India in Civil Appeal No 10732/1995 dt. 25/4/1990. It shall be a critical siting criteria.
- ii) **Health Care Establishment:** Means primary health centre or above of Health and Medical/Education Deptt. or recognized private HCE with minimum of 10 beds. It shall be critical siting criteria.
- iii) **Controlled Area:** An area under permanent occupation of Defense / Belt Forces.
- iv) **Approved Water Supply:** The approved water supply of more than 20 KLD where system for treatment of water for drinking purposes is involved in open or a spring/lake used for drinking purposes. Tube well/ Overhead tanks/ covered reservoirs/ rivers are not covered under this.
- v) **Educational Institution:** Govt. Primary School or above or Govt. recognized Private School; College, University etc. It shall be critical siting criteria.
- vi) **Orchard/Abi-awal/Saffron Fields:** - Land use of more than 10 kanals shall only be considered as Orchard / Saffron field / Abi-awal, Un-irrigated land should not be covered under this.
- vii) All distances referred in siting criteria shall be aerial / crow fly distances.
- viii) **Cluster:** Cluster is defined as "a group of five or more than five stone crushers/HMPs/BMPs or both located in close proximity to each other". For individual stone crushers within the cluster the PCDs & PCMs already recommended by the Board for stone crushers and Hot Mix Plants, should be adopted as identified by the Regional Director, J&K Pollution Control Committee Kashmir vide No. **RDK/PS/39** dt. 23/1/2021, detailing A to K sub-clusters having 178 HMP/SCs Lasjan, Rakh-Shalina, Golepora belt in Budgam District.

- 3.1. All the parameters to be measured from centre of crushing point and distance to be measured is aerial distance i.e., crow fly distance as per KMZ file of google map.
- 3.2. The entrepreneur including govt. agencies find it difficult especially in hilly areas to locate suitable land for stone crushers and hot mix plants which is more than 1 km away from forest areas while also being 500 m away from Residential Area. Thus, the referred distance of 1 km in revised siting criteria for stone crushers reduced to **300** meters.
- 3.3. For certain locations defying the siting criteria especially critical siting criteria, no new unit shall be allowed to be established / operated. However, the case may be considered on account of distinct geographical barriers, which may be verified after site inspection by the Committee of Experts comprising respective Regional Director JKPCC, Divisional / District Officer concerned, adjoining Divisional / District Officer and Scientist-in-Charge Air laboratory, which shall be followed by detailed report and presentation by the committee justifying the recommendations.
- 3.4. The Consent to Operate (Renewal) shall be considered for issuance for a period of **1 to 3** years, depending upon the siting criteria, compliance status and state of art PCDs/ PCMs adopted in the unit. The proprietors of units must apply by online mode **45 days** before the expiring of consent, ensuring that the unit has valid consent well before expiry for operation.
- 3.5. The Consent to Operate (Renewal) application applied after expiry date shall be charged with **double the consent fee** for period of **upto 6 months** delay followed by **four times consent fee** in addition for subsequent delay in filing application.
- 3.6. These guidelines / siting criteria is also applicable to integrated wet mix plants, but standalone wet mix plant shall be considered for consent under green category only as per prevailing norms with diligent efforts to reduce emissions and ensure proper waste management.

4. Project Specific Stone Crushers and Hot Mix Plants: -



4.1. Definition of Project Specific Activity:- A temporary Stone Crusher / Hot Mix Plant established exclusively for construction of National Highways, State Highways or any other infrastructural Government Project and Government approved Public Private Partnership Project having definite period for the project completion, would qualify as a Project Specific Stone Crusher or Project Specific Hot Mix Plant or both. This shall be subject to condition that the unit holder must obtain a 'Letter of Allotment' of the project work in his/her favour specifying the exact nature, extent and period of the allotted work/project from an officer not below the rank of Executive Engineer of the department/agency executing the said project.

4.2. Siting Criteria for Project Specific Stone Crushers/ Hot Mix Plants: - The revised siting criteria shall be applicable to Project Specific Stone Crushers and Hot Mix Plants. However, the Competent Authority i.e. Chairperson J&K Pollution Control Committee in exercise of powers conferred upon him / her in the **26th Board meeting** of J&K PCB, based on expert opinion, may relax any of the siting parameters including **any of three critical** criteria out of five critical criteria, on case to case basis, keeping in view the topological conditions of the area. Consents to Project Specific units shall be granted for a specific period commensurate with the life of the project with State of Art PCDs/PCMs to be adopted by the project proponents.

5. Check list of documents required for CTE / Operation for Stone Crushers and Hot Mix Plants:

A)	For Consent to Establish (Fresh/ Renewal)	B)	For Consent to Operate (Fresh/ Renewal)
(i)	Detailed Project Report (DPR) with plant and machinery financial implications, having specific detailed chapter on PCMs / PCDs proposed. <i>PCMs / PCDs should be adequate, conforming to the guidelines and incorporating new / latest technology.</i>	(i)	CTE copy for CTO (F) cases
(ii)	Land papers and 'No Objection Certificate' from Deputy Commissioner regarding title verification of land and its usage as per Rule 3 (3) (ii) of SO 60 dt. 23/02/2021.	(ii)	CTO (F) copy for CTO (R) cases
(iii)	Consent fee by online mode	(iii)	Consent fee by online mode
(iv)	KMZ / KML file of the site	(iv)	NOC as per Rule 3(3) (ii) of SO 60 for old Stone Crushers/ Hot Mix Plants if not submitted earlier (only once required)
(v)	CTE (F) copy for CTE(R) case	(v)	Notice / Closure Order /Withdrawal issued by JKPCC in past, if any.
(vi)	Forest distance certificate from DFO Territorial	(vi)	Annual consumption of raw material and its certified and valid source.
(vi)	Eco-sensitive Zone certificate from Wildlife Warden of the area	(vii)	Document for legitimate source of water connection from competent authority
		(viii)	SMR from recognized laboratory
		(ix)	Photographs of the PCDs /PCMs adopted with date and duly labelled along with name of the unit with geo tagging.

	(x)	Photographic proof of display board (6' x 4') installed at the entry of the unit, reflecting name and address, capacity of the unit, consent order no. and details of PCDs / PCMs adopted, written in big legible bold letters.
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6. OPERATIONAL GUIDELINES FOR STONE CRUSHERS: -

6.1. All the stone crushers shall take the following pollution control measures: -

- i) All the dust emitting points like Jaw/Roller crusher, screens/classifiers must be properly enclosed/covered with CGI sheet enclosure or of other solid material but not by tarpaulin.
- ii) Conveyor belts should be of proper quality material instead of used tyres covered.
- iii) The conveyer belts provided to carry different grades of materials must be fully covered with a thick sheet of suitable material with adequate water sprinkling provided at different points on conveyer belts.
- iv) The ends of the conveyer belts may be provided with properly designed telescopic chute of adequate length so that the dust generated from the section is contained at the source (*see pictures enclosed as Annexure-1*).
- v) Regular water spray should be carried out at all dust emitting points and transfer points. Water spray should also be done on the boundary as per requirement. The unit should provide water sprinklers on the conveyors carrying raw material from bunker/bin to the crusher. The water should be sprayed in the form of mist with the help of a motor.
- vi) Regular cleaning of approach roads should be carried out and all the approach roads and ramps should be metalled.
- vii) A green belt consisting of three rows of broad-leaved trees (out of which one row of tall trees and two rows of medium sized trees) planted in staggered manner, must be provided along the periphery.
- viii) The discharge of treated / sewage effluents into inland surface water may not be allowed and the respective units should either re-use the treated effluent water for washing purpose etc. or use the same for sprinkling purpose to suppress the dust generated from these sources including emission due to movement of vehicles.
- ix) Annual Health survey of workers should be conducted.
- x) The openings of housing for the movement of mechanical drivers, conveyor belts etc. should be properly sealed with flexible rubber flaps.
- xi) The process waste i.e. fine material should not be dumped along the road side and should be used for filling up of low-lying areas.
- xii) The suspended **Particulate Matter** contribution value at a distance of **3 to 10 meters** from a controlled, isolated as well as from a unit located in cluster should be less than **600 µg/Nm³**.

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- xiii) The project proponent shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than **75 db (A)** during day time.
- xiv) All the material should be transported in covered vehicles.
- xv) Dumps of raw and finished products should not be more than 3m height and should have enclosure on three sides of 4m height. Regular wetting of these dumps should be done so that no dust is emitted during blowing of wind.
- xvi) A ten to twelve feet brick or CGI sheets wall as boundary/ wind breaking wall facing the road as well as towards residential area with a well-defined single entry from the road to be provided in the unit.
- xvii) Fine dust accumulated in the crushing areas should be periodically cleaned and the dumps should be covered with tarpaulin to arrest erosion by wind.
- xviii) **For establishment of new Stone Crushing unit and Hot Mix Plant**, in addition to meeting the siting criteria and the prescribed PCDs and PCMs, the project proponent must have a **minimum land availability** as per the land type defined in **SO 60 dt. 23.02.2021** for better operational conditions as per the details given below:
 - a) For stone crusher having only one jaw / cone type crusher with capacity upto **25TPH**, and standalone Hot Mix Plants:**04 kanals**
 - b) For stone crusher having two or more jaws/ cone crushers with capacity**25 to 100TPH:06 kanals**
 - c) For stone crusher with capacity upto **25 TPH** with Hot Mix Plant:**06 kanals**
 - d) For stone crusher with capacity**25 to 100 TPH** with Hot Mix Plant:**08 kanals**
 - e) For large stone crusher having two or more jaws/ cone crushers with capacity **more than 100 TPH** with Hot Mix Plant:**12 kanals**
- xix) All stone crushers and HMPs must have a **legal source of raw material**.
- xx) It is advisable to have a full coverage (like industrial shed) preferably for new crushers and all the old stone crushers shall adopt the full coverage of the units within 5 years from the date of issuance of the guidelines.

6.2. Additional Guidelines for existing old and consented stone crushing units: -

The existing stone crushers as on January 2022, which do not meet the guidelines, in addition to the above pollution control measures must augment PCDs and have following State of Art PCDs / PCMs: -

- i) All such existing old stone crushing units consented prior to coming into force of these guidelines must develop three rows of thick green belt all along the periphery of the unit. This green belt must include a row of adequate number of broad-leaved tree species having good canopy.
- ii) All such existing old and consented stone crushing units must construct at least ten to twelve feet high permanent wind breaking brick wall/CGI Sheets barrier all along the periphery of the unit.




- iii) All such existing old and consented stone crushing units must install permanent and mechanical **water sprinkling system** interlocked with the crushing point and other allied machinery of the stone crushers, and in no case the stone crushers shall operate without a functional water sprinkling system. A permanent water storage tank of a minimum **2000 lt.** capacity must be installed
- iv) All such existing old and consented stone crushing units must be operated only during day hours i.e. from **8.00 a.m.** to **6.00 p.m.**, and must ensure the emissions below prescribed limits under all circumstances.
- v) All such existing old and consented stone crushing units shall be accorded **Consent to Operate (Fresh/Renewal)** for a period of **1 year** at a time, subject to adhering to the norms referred and satisfactory control of emissions.
- vi) All such existing old and consented stone crushing units especially those which do not meet at least critical three siting criteria w.r.t. Residential Area, Educational Institution, Hospital, Nursing Home and are **within the jurisdiction of Non-attainment Cities (NAC) Jammu and Srinagar** must also plan **shifting** to the suitable site/s, in the interest of their functioning **within two years of coming in force of these guidelines**, no CTO(R) shall be accorded for any such cases afterwards.
- vii) The referred guidelines / siting criteria for the stone crushers with advisory as referred above shall be applicable to the **integrated Hot Mix plants** as well.

6.3. In addition to aforementioned guidelines, old and established CLUSTERS shall follow the following additional guidelines:

- i) The Stone Crushers and Hot Mix Plants which are already existing in the form of a certified cluster e.g. Lasjan belt, Rakshalina etc. shall be allowed to function subject to the condition that State of Art PCDs and PCMs including dust containment through regular sprinkling, and no fresh/new Stone Crusher and/or Hot Mix Plant shall be allowed to be established in the clusters henceforth.
- ii) A collective biological barrier/green belt (comprising of a minimum of 05 rows of broad-leaved trees/plants) be provided all around the clusters, especially towards the habitation and National Highway, jointly by all the unit holders.
- iii) Only one approach from National Highway/scheduled Road is provided to the cluster.
- iv) All new clusters of stone crushers in future shall get the layout plan approved from Competent Authority before establishment.

6.4. Continuation of restriction for establishment of fresh units: -

The restriction imposed in Lasjan area of Rakshalina – Summerbugh – Golepora vide No. SPCB/T/151/4014-20 dt. 28.08.2010 shall continue and no fresh stone crusher /hot mix plant be allowed to be established /operated till further orders.




7. OPERATIONAL GUIDELINES FOR HOTMIX PLANTS: -

7.1. Pollution Control Equipment / Devices for Hot Mix Plants:

- **For Batch Hot Mix Plants [capacity ranging from 100 to 200 TPH]**
 - i. Dual cyclone followed by bag filters.
 - ii. Stack of 15m height with proper platform and monitoring porthole for checking emissions.
- **For Drum Hot Mix Plant [capacity ranging from 20 to 90 TPH]**
 - i. Multi cyclone followed by venture scrubber.
 - ii. Stack of 15 m height with proper platform and monitoring porthole for checking emissions.

7.2. All Hot Mix Plants shall take the following Pollution Control Measures (PCMs):

- i) All roads/vehicular movement areas at the site of Hot Mix Plant should be *pucca* / stabilized with stone aggregate and regular sprinkling of the water be ensured so that no dust is generated with vehicular movement. Water sprinkling system shall be provided in all possible dust emanating area for suppression.
- ii) Hot Mix Plant should discharge flue gases after the dust control system through a stack with minimum height of **15 m** with necessary platform and port holes for periodic collection of stack emission samples.
- iii) The aggregates loading into hopper bin area shall be closed on three sides with metal sheets and the access side shall have plastic air curtains/multi sheet rubber flaps so as to arrest the emission generated during loading.
- iv) Conveyor belts shall be fully covered (top and sides).
- v) All hot mix plants shall **use diesel/LDO only**, in no case fuels such as solvents industrial wastes, fire wood shall be used.
- vi) A dedicated energy meter to be provided for the motor attached to the dust control system and reading to be recorded on daily basis.
- vii) Stack/AAQ/ANL survey to be periodically (once in a year) conducted and reports should be furnished to JKPCC.
- viii) Maintain good housekeeping practices wherever possible within the unit premises to control fugitive dust emission.
- ix) Wherever possible, day time operation is to be preferred rather than night time operation to take advantage of favourable metrological condition prevailing during day time.
- x) Adequate measures of safety for workers working in Hot Mix plant shall be taken. Personal protective devices such as goggles, mask, helmet and safety should be provided to workers.
- xi) All machineries (pumps and blowers) details to be displayed along with their capacity and power consumption (KW) in addition to the total power consumption in the Hot Mix Plant for inspection purposes.
- xii) All aggregates stored within the premises shall not be stacked beyond the height of **3m** from ground level.



7.3. Emission Standards for Hot Mix Plant:

- a. Emission standards - **Particulate Matter**- Not more than 150mg/Nm³
- b. National Ambient Air Quality Standards- CPCP Notification No. B-29016/20/90/PCI-1 dated 18-11-2009 to be followed.
- c. The Noise Pollution (Regulation and Control) Rules, 2000 as notified by MoEFCC S.O. 123(E) dated 4-02-2000 to be followed.

7.4. Cluster of Stone Crushers / Hot Mix Plants except project specific Stone Crushers / Hot Mix Plants in case of new establishment.

- i) *To avoid clustering and mushrooming growth of stone crushers / hot mix plants in a particular area. Not more than five stone crusher/ hot mix plant shall be allowed to establish in a radius of 1 km.*
- ii) *The distance between the two clusters should not be less than 2 kms.*
- iii) *Only one single road for transporting material to and fro from cluster shall be allowed to be used, which should not pass through any village preferably.*

Encl: Annexure-1

(K. Ramesh Kumar) IFS
Member Secretary
J&K Pollution Control Committee,
Jammu

No:- JKPCC/S/MS/2023/246-274
Date:- 27-02-2023.

Copy to the:-

- 1) Regional Director, JK Pollution Control Committee, Jammu / Kashmir.
- 2) Director, Industries and Commerce Department, Jammu / Kashmir.
- 3) All Divisional Officers, Pollution Control Committee, Jammu / Kashmir.
- 4) P.S to Principal Secretary to Government, Forest, Ecology and Environment Department, Government of J&K for kind information of the Principal Secretary.
- 5) P.S to Principal Secretary to Govt, Industries and Commerce Department, Government of J&K for kind information of the Principal Secretary.
- 6) P.A to Chairperson for kind information of the Chairperson, J&K PCC.
- 7) I/c Website, Pollution Control Committee, Jammu for uploading the same on the website of JKPCC.