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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

No.PCB/744/CC/2017-18/ 3720

Date : 26 SEP 2019

CIRCULAR

Sub : Directions for implementation of guidelines for Pollution Control in Kolhus (Jaggery units)

Ref : CPCB letter No. CPCB//IPC-V/ Kolhus/2019 dated:13.08.2019

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Hon'ble NGT, Principal Bench in its order dated 22.11.2017 directed as below:

"The State Pollution Control Board and Central Pollution Control Board may issue appropriate order in the interest of environment and ecology in relation to the operation of Kolhus (Jaggery units) in the State Uttar Pradesh."

In compliance to Hon'ble NGT order, CPCB has been issued guidelines for Pollution Control in Kolhus (Jaggery units)", on 13.06.2018, for the state of Uttar Pradesh.

A copy of the guidelines is enclosed for reference and instructed to ensure implementation of guidelines for ensuring pollution control in Kolhus (Jaggery units) .

//Enclosure: As above//


Member Secretary

To,

1. RSEO (Bangalore City), RSEO (Bangalore East), RSEO (Bangalore South), RSEO (Bangalore North), RSEO (Mysore), RSEO (Mangalore), RSEO (Dharwad), RSEO (Bellary), RSEO (Kalburgi). and RSEO (Chitradurga).
2. All Regional Officers, Regional Office: (1) Bangalore City-East, (2) Bangalore City-Peenya, (3) Bangalore City-South, (4) Bangalore City-West, (5) Dasarahalli, (6) Doddaballapura, (7) Nelamangala, (8) Yelahanka, (9) Anekal, (10) Bommanahalli, (11) Rajarajeshwarinagara, (12) Ramnagar, (13) Sarjapura, (14) Chikkaballapur, (15) Hosakote, (16) Mahadevpura, (17) Mysore-1, (18) Mysore-2, (19) Mandya, (20) Chamarajnagar, (21) Tumkur, (22) Chitradurga, (23) Davangere, (24) Kolar, (25) Shimoga, (26) Dharwad, (27) Gadag (28) Belgaum-1, (29) Belgaum-2 (Chikkodi Centre), (30) Bagalkot, (31) Bijapur, (32) Bellary, (33) Raichur, (34) Koppal, (35) Bidar, (36) Gulbarga, (37) Udupi, (38) Mangalore, (39) Hassan, (40) Chikmagalur, (41) Karwar, (42) Kodagu (43) Haveri, (44) Yadgiri.

Copy To,

1. Chief Environmental Officer for information
2. SEO (NEIA(OB), Enforcement & Complaint Cell), SEO (Waste Management Cell), SEO (17 Category Cell), SEO (Mines, Steel & Stone Crusher Cell), SEO (Infrastructure Cell) for information.
3. The Technical Officer to Chairman for information.
4. The PA to Member Secretary for information.
5. Website.

S. Kumar

Chief Environmental Officer

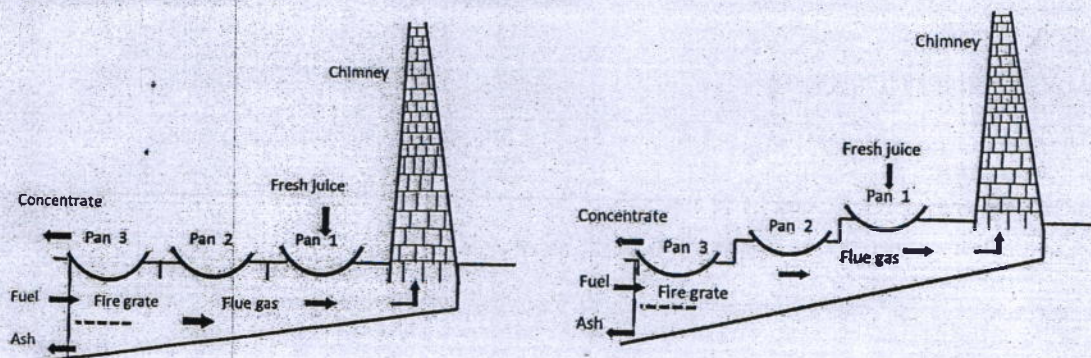
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CENTRAL POLLUTION CONTROL BOARD
(Ministry of Environment, Forest and Climate Change, Govt. of India)
'Parivesh Bhawan', East Arjun Nagar
Shahdara, Delhi-110032

Guidelines for Pollution Control in Kolhus (Jaggery Units)

1. The *Kolhus* shall not be allowed to set up at locations within 0.5 km distance from approved habitation, schools, hospitals and the sensitive zones.
2. Only dried bagasse, wood and the agricultural residues/wastes shall be used as fuel. In no case rubber, used tyres, plastic etc. shall be fired in furnace.
3. Improved/energy efficient furnace shall be used by *Kolhus*. The furnace shall be made of masonry bricks or refractory bricks. Use of mud or soil in place of bricks should be avoided. The furnace shall be constructed in such a way that it ensures multi-pan (more than one pan in series) heating as shown in Figure(s) below for utilisation of heat contained by flue gases. The Pan 3 is used for evaporation of the juice to achieve the desired concentration for making *Jaggery/Gur*. The hot flue gases further transfer heat to preheat the Pan 2 and Pan 1.



The number of Pans may range from 2 to 5 depending upon the design of furnace. As the flue gas transfer the heat to the Pan, its temperature reduces. The remaining heat in the flue gas is further utilised to preheat the juice in the subsequent Pans. The *Kolhus* with production capacity of ≤ 2 MT/day have a choice to adopt either single pan or multi-pan arrangement.

4. A flap shall be installed on fuel feed hole of furnace to control excess air. There shall be provision of fire grate for efficient burning of fuel in the furnace. The ash generated would be collected from bottom of the furnace. A provision of baffles in flue gas path leading to stack (chimney) should be made to contain the particulate matter.
5. The height of stack shall be prescribed by the State Pollution Control Board depending upon the local conditions, but it shall not be less than 10 m. The *Kolhus* without stack shall not be permitted.
6. The limit of particulate matter (PM) in flue gas shall be prescribed by the State Pollution Control Board depending upon the local conditions, but it shall not be more than 500 mg/Nm³.
7. The solid wastes generated from the *Kolhus* shall be reused or properly disposed. The bagasse shall be used as fuel in the furnace. Scum collected from pan and ash shall be utilised as soil conditioner in agricultural land.
8. The washings of pans shall be disposed through soak pit.
9. The *Kolhus* shall ensure cleanliness and hygienic conditions in the premises.

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