



SPEED POST

CPCB/IPC-V/Kolhu/2019

August 13, 2019

To

All State Pollution Control Boards/ PCCs
(As Per List)

Sub: Guidelines for Pollution Control in Kolhus-reg.

Sir,

The Hon'ble National Green Tribunal, New Delhi, vide 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 in the State of Uttar Pradesh..."

Pursuant to the above, CPCB issued "Guidelines for Pollution Control in Kolhus", on 13/6/2018, for the state of Uttar Pradesh.

A copy of the above guidelines is enclosed for reference and implementation, for ensuring pollution control in Kolhus.

Yours faithfully

(Ajay Aggarwal)

AD & Div. Head, IPC-V

Encl: as above

Copy to:

All Regional Directorates of CPCB

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
निर्गत... 13/8/19
दिनांक 13/8/19

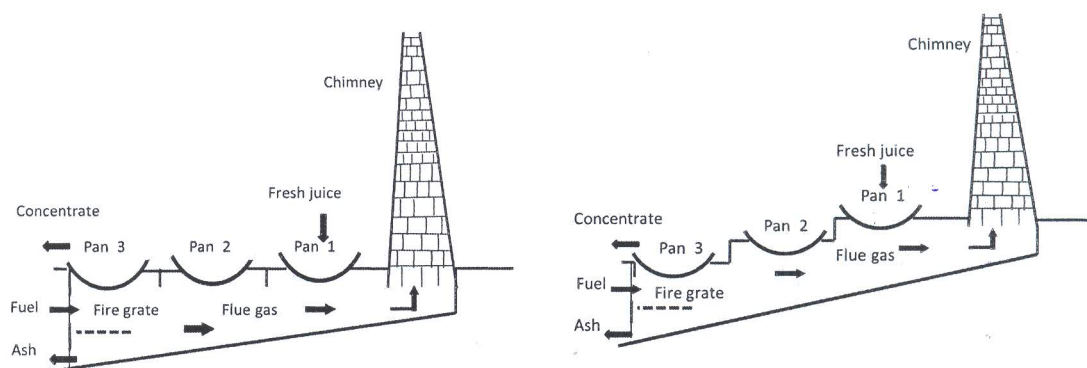
O/c.



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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State Pollution Control Boards

1.	The Member Secretary Andhra Pradesh Pollution Control Board D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamalavari Street, Kasturibaipet Vijayawada – 520 010, Andhra Pradesh	12.	Karnataka State Pollution Control Board "Parisara Bhavan", #49, 4th & 5th Floor, Church Street, Bangalore-560001
2.	The Member Secretary Arunachal Pradesh Pollution Control Board Govt of Arunachal Pradesh, Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papunah, Naharlagun-791110, Arunachal Pradesh	13.	The Member Secretary Kerala Pollution Control Board Plamoodu Junction, Pattom Palace, P.O. Thiruvananthapuram – 695 004
3.	The Member Secretary Assam Pollution Control Board Bamunimaiden, Guwahati – 781021, Assam	14.	The Member Secretary Madhya Pradesh Pollution Control Board Paryavaran Parisar, Sector E-5, Arera Colony, Bhopal – 462 016
4.	Bihar State Pollution Control Board, Parivesh Bhawan, Plot No. NS-B/2 Paliputra Industrial Area, Patliputra, Patna-800010, Bihar	15.	The Member Secretary Maharashtra Pollution Control Board Kalptaru Point, 2 nd - 4 th floor, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai – 400 022.
5.	The Member Secretary Chhattisgarh Environment Conservation Board Commercial Complex, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur-492001, Chhattisgarh	16.	The Member Secretary Manipur Pollution Control Board Near Imphal West D.C. Office Complex, Lamphelpat, Imphal – 795 004.
6.	The Member Secretary Goa Pollution Control Board Dempo Tower, 1st Floor, EDC Patto Plaza, Panaji-403001, Goa	17.	The Member Secretary Meghalaya Pollution Control Board Arden, Lumpyngngad, Shillong – 793 014
7.	The Member Secretary Gujarat Pollution Control Board Paryavaran Bhawan, Sector 10-A, Gandhi Nagar – 382010, Gujarat	18.	The Member Secretary Mizoram Pollution Control Board Silver House, Tuikhuahtlang, Aizwal - 796001.
8.	The Member Secretary Haryana Pollution Control Board C-11, Sector-6 Panchkula, 134109, Haryana	19.	The Member Secretary Nagaland Pollution Control Board Signal Point, Dimapur, Nagaland - 797112.
9.	The Member Secretary Himachal Pradesh Pollution Control Board Him Parivesh, Phase-III, New Shimla – 171 009.	20.	The Member Secretary Odisha State Pollution Control Board, (Department of Forest & Environment) Paribesh Bhawan, A-118, Nilakantha Nagar, Unit-VIII, Bhubaneswar – 751 012.
10.	(May-November) The Member Secretary Jammu & Kashmir Pollution Control Board Shiekh-ulalam Campus, Behind Govt. Silk Factory, Rajbagh, Srinagar	21.	The Member Secretary Punjab Pollution Control Board Vatavaran Bhawan, Nabha Road Patiala – 147 001
11.	The Member Secretary Jharkhand State Pollution Control Board T.A. Building, HEC, P.O. Dhurwa, Ranchi-834004, Jharkhand	22.	The Member Secretary Rajasthan Pollution Control Board A-4, JalaneDungri Institutional Area Jaipur – 302 004

23.	The Member Secretary State Pollution Control Board Forest, Environment Wildlife Management Department Government of Sikkim Forest Secretariat, Deorali, Gangtok -737102 East Sikkim	27.	The Member Secretary Uttar Pradesh Pollution Control Board Building.No. TC-12V, Vibhuti Khand, Gomati Nagar, Lucknow, Uttar Pradesh 226010
24.	The Member Secretary Tamil Nadu Pollution Control Board No. 76, Anna Salai Guindy, Chennai – 600 032	28.	The Member Secretary Uttarakhand Environment Protection & Pollution Control Board, Gauradevi Paryavaran Bhawan, 46-B, It Park, Sahastradhara Road, Dehradun-248001 (Uttarakhand).
25.	A-3, Paryavaran Bhavan, Sanath Nagar Rd, Sanath Nagar Industrial Estate, Sanath Nagar, Hyderabad, Telangana 500018	29.	The Member Secretary West Bengal Pollution Control Board No. 10A, Block - LA, Sector III, Bidhan Nagar, Kolkata - 700 091.
26.	The Member Secretary Tripura Pollution Control Board, Parivesh Bhawan, Pandit Nehru Complex, Gorkhabasti P.O. Kunjaban, Agartala (W) – 799 006, Tripura.		

Pollution Control Committees

1.	The Member Secretary Delhi Pollution Control Committee 4th & 5th Floor, ISBT Building, Kashmere Gate, Delhi - 110006.
2.	The Member Secretary Puducherry Pollution Control Committee IIIrd floor, Housing Board Complex, Anna Nagar, Puducherry – 600 005
3.	The Member Secretary Chandigarh Pollution Control Committee Additional Town Hall Building (2nd Floor) Sector-17C Chandigarh – 160 017
4.	The Member Secretary Daman, Diu & Dadra & Nagar Haveli Pollution Control Committee Office of the Dy. Conservator of Forests Fort Area, Moti Daman, Daman – 396 220
5.	The Member Secretary Andaman & Nicobar Pollution Control Committee Van Sadan, Haddo P.O. Port Blair – 744 102
6.	The Member Secretary Lakshadweep Pollution Control Committee, Lakshadweep Administration, Dept. Of Sc., Technology & Environment Kavarati-682 555

Regional Directorates, CPCB

1.	Zonal Officer (South), Central Pollution Control Board 1 & 2nd floors, Nisarga Bhavan, Thimmaiah, Main Road 7th D Cross, Opp. Pushpanjali Theatre Shivanagar Bangalore- 560086
2.	Zonal Officer (Central) Central Pollution Control Board 4th Floor, Sahkar Bhawan North TT Nagar Bhopal - 462003
3.	Zonal Officer (East) Central Pollution Control Board Southern Conclave, Block 502, 5th & 6th Floors 1582, Rajdanga Main Road Kolkata - 700 107 (W. B.)
4.	Zonal Officer (North) Central Pollution Control Board Ground Floor, PICUP Bhawan, Vibhuti Khand Gomti Nagar, Lucknow - 226 020 U.P.
5.	Zonal Officer (North – East) Central Pollution Control Board Tumsir, Lumdiengob, Lower Moti Nagar Near Fire Bridge H.Q. Lumbyngngad Shillong - 793014
6.	Zonal Officer (West) Central Pollution Control Board Parivesh Bhawan, Opp. VMC Ward Office No.10 Hariom Nagar, Subhanpura Vadodara- 390023