



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ  
PUNJAB POLLUTION CONTROL BOARD

SEE(HQ-2)/F.no. 129/2022-397  
No. ....

Dated. 22/11/22

OFFICE MEMORANDUM

**Subject:** Clarification regarding use of agro waste/biomass residue as fuel by the 'induced draft zigzag technology based brick kilns'.

In reference to the queries raised by the field offices with respect to the use of agro waste/biomass residue (like tura, gauwara crop, mustard straw, almond/peanut peels and press mud from sugar industry etc.) as fuel by 'induced draft zigzag technology based brick kilns', problem of black smoke being observed from the stacks of brick kilns and expert opinion given by the service providers of zig-zag induced draft technology (CBRI & PSCST), it is hereby clarified that:

1. 'Induced draft technology with zig-zag setting' provided for the brick kilns is designed to use crushed coal as fuel to attain better efficiency. Limited quantity of saw or wooden dust can be used in initial chamber to maintain temperature in different zones and accelerate the rate of firing.
2. As such, agro waste/biomass residue (like tura, gauwara crop, mustard straw, almond/peanut peels and press mud from sugar industry) 'in loose form' is not compatible to the zig-zag based induced draft technology. Hence, their use, in loose form, is not allowed till a proper study is conducted or some mechanism is developed by the technical providers for utilizing the same in loose form for zig-zag based induced draft brick kilns.
3. Pellets made from agro waste/biomass residue/paddy straw etc. can be used as a partial replacement of coal in induced draft brick kilns. However, brick kiln owners (BKO) may consult their service provider (PSCST/CBRI) for deciding the type, size and the ratio for blending the bio-mass based pellets with the conventional crushed coal before its use in their brick kilns.

These orders shall come into force with immediate effect.

Prof. (Dr.) Adarsh Pal Vig  
Chairman

Endst. No. SEE(HQ-2)/2022/.....

Dated .....

A copy of the above is forwarded to the following for information please:

1. The Principal Secretary to Govt. of Punjab, Department of Food, Civil Supply and Consumer Affairs, Chandigarh.
2. The Secretary to Government of Punjab, Department of Science, Technology and Environment, Chandigarh.
3. The Chief Executive Officer, Punjab Bureau of Investment Promotion, Chandigarh

ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ - 147001

Contd.....

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- 4. The Director, Directorate of Environment and Climate Change, Sec-26, Chandigarh.
- 5. The Director, Department of Industries and Commerce, Sec-17, Chandigarh.

<sup>sd-</sup>  
Er. Krunesh Garg  
Member Secretary  
Dated 22/11/22

Endst. No. SEE(HQ-2)/2022/24700-07

A copy of the above is forwarded to the following for information and necessary action, please:

- 1. The Chief Environmental Engineer, Punjab Pollution Control Board, Patiala/Ludhiana/Jalandhar and Bathinda/HQ/PBIP.
- 2. The Special Secretary (P&G), Punjab Pollution Control Board, Patiala.
- 3. The Senior Environmental Engineer, Punjab Pollution Control Board, HQ-I/II/III/IV, Zonal Office, Patiala-I/II, Ludhiana-I/II, Jalandhar, Amritsar and Bathinda.
- 4. The Environmental Engineer, Punjab Pollution Control Board, HQ-I/II/III/IV, Regional Office, Patiala / Sangrur / Bathinda / Faridkot / Batala / Jalandhar-I/II/ Hoshiarpur / Mohali / Roop Nagar / Amritsar / Fatehgarh Sahib and Ludhiana-I/II/III/IV.
- 5. The Environmental Engineer, Computer Section, Punjab Pollution Control Board, Patiala with a request to upload the office order on website of the Board.
- 6. The Scientific Officer, Punjab Pollution Control Board, Patiala/Jalandhar/Ludhiana.
- 7. The Administrative Officer/Senior Law Officer, Pb. Pollution Control Board, Patiala.
- 8. PS to Chairman/ PA to Member Secretary, Punjab Pollution Control Board, Patiala.

<sup>sd-</sup>  
Er. Krunesh Garg  
Member Secretary  
Dated .....

Endst. No. SEE(HQ-2)/2022/.....

A copy of the above is forwarded to the Chief Executive Officer, Punjab State Council for Science & Technology Chandigarh and Director Central Building Research Institute, Roorkee, 247667, UA with request to guide the brick kilns owners regarding the optimum use of bio-mass pellets by blending with crushed coal.

<sup>sd-</sup>  
Er. Krunesh Garg  
Member Secretary  
Dated .....

Endst. No. SEE(HQ-2)/2022/.....

A copy of the above is forwarded to the Punjab Brick Kiln Owners Association, SCF-33, Block-C, Rajguru Nagar, Ludhiana-141012 for information and to ensure the compliance by all the brick kilns operating in the State of Punjab.

<sup>sd-</sup>  
Er. Krunesh Garg  
Member Secretary