



SPEED POST

CPCB/IPC-VI/ROGW 6686-6730

Date: 22.09.2021

To

The Member Secretary
SPCB/PCC
(as per the list)

Sub: Harmonization of Classification of Industrial Sectors into Red, Orange, Green and White Categories-reg.

Sir,

This has reference to CPCB letter dated 30.04.2020 on the above-mentioned subject, wherein 'Compressed/refined bio-gas production from bio-degradable waste' was categorized under Orange Category of industries.

Subsequently, CPCB was in the receipt of representations from various stakeholders with a request to revisit the categorization of Compressed Bio-Gas (CBG) plants in light of the notifications issued by the Ministry of Agriculture and Farmers Welfare vide Gazette Notification No. 2051 dated 14.07.2020 and No. 1972 dated 01.06.2021 regarding inclusion of Fermented Organic Manure (FOM) and Liquid Fermented Organic Manure (LFOM) under Fertilizer (Inorganic, Organic or Mixed) (Control) Act, 1985.

In view of the above notifications and to promote the cleaner sources of energy, CPCB revisited the categorization of CBG plants. Accordingly, CBG plants producing FOM & LFOM as by products in conformity with requirements of Gazette Notification No. 2051 dated 14.07.2020 & No. 1972 dated 01.06.2021, respectively, and utilizing entire FOM & LFOM as a fertilizer or manure on land and also not discharging any waste-water, are to be considered under White category, subject to verification by SPCB on case-to-case basis. The aforesaid criteria may be re-assessed based on ground conditions after a period of two years. CBG plants which do not fall in the aforesaid category are to be categorized based on the type of feed-stocks being used. CBG plants based on animal waste and crop residue as feedstock are categorized under green category. CBG plants based on Municipal Solid Waste (MSW) and process waste as feedstock are categorized under Orange Category.

In addition, Household bio-digesters/gobar-gas (cow-dung) plants based on biodegradable wastes, etc. with feed slurry to digesters having Volatile Organic Fraction more than 75 %, are to be considered under White' category.

The details of categorization of '**Compressed Biogas (CBG)/Bio-CNG plants**' and '**Household bio-digesters/gobar-gas (cow-dung) plants based on biodegradable wastes, etc.**' are enclosed.

The aforementioned revised categorization shall supersede the earlier categorization of 'Compressed/Refined Bio-gas production from bio-degradable waste', issued vide directions dated 30.04.2021.

All SPCBs/PCCs are directed to adopt and follow the categorization of CBG plants as per the enclosed Annexure.

Yours faithfully,


(Prashant Gargava)
Member Secretary

Encl: as above

Copy to:

- 1 The Joint Secretary (CP Division)
Ministry of Environment, Forests
& Climate Change,
Indira Paryavaran Bhawan,
3rd Floor, Prithivi, Jor Bagh Road,
New Delhi -110 003
- 2 The Regional Directors,
CPCB
(as per list)
- 3 Div. Head, IPC-III, CPCB, Delhi
- 4 Div. Head-IT, CPCB, Delhi

: with a request to upload this
letter on CPCB website


(Prashant Gargava)

o/c

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
दिनांक 24/9/2021

Annexure

Categorization of Compressed Biogas (CBG)/Bio-CNG plants

| Sl. No. | Industrial Sector | W1 | W2 | W | A1 | A2 | A | H | PI | Category | Remarks |
|---------|--|----|----|----|----|----|----|----|----|----------|---|
| 86 | Compressed Biogas (CBG)/Bio-CNG plants | | | | | | | | | | Pollution potential from Compressed Biogas (CBG)/Bio-CNG plants may vary depending on the type of feed stock, size of operation and requirement for discharge of wastewater. |
| | | | | | | | | | | | In CBG plants, high BOD/COD wastewater is generated from anaerobic bio-digesters which is required to be treated prior to disposal or to comply with Gazette Notification No. 2051 dated 14.07.2020 & No. 1972 dated 01.06.2021 for use as Fermented Organic Manure (FOM) and/or Liquid Fermented Organic Manure (LFOM). Further, these plants may cause odour nuisance due to storage & handling of organic waste and composting. Exhausted adsorption media/ filters, used lubrication/hydraulic oils and spent solvents may also get generated as hazardous waste. |
| a. | CBG plants based on Municipal Solid Waste (MSW) | 30 | - | 30 | 10 | - | 10 | 10 | 50 | Orange | Accordingly, the following classification is suggested: The waste contains heterogeneous material. The anaerobic biodegradation of the same may generate waste water containing high BOD and COD. If discharge of wastewater is more than 100 KLD, Pollution Index (PI) will be 60 and will be categorized as Red. |
| b. | CBG plants based on process waste (industrial/ process liquid effluent & solid waste like press mud, organic sludge, molasses, etc.) | 30 | - | 30 | 10 | - | 10 | 10 | 50 | Orange | The anaerobic biodegradation of the same may generate waste water containing high BOD and COD. If discharge of wastewater is more than 100 KLD, PI will be 60 and will be categorized as Red. |
| c. | CBG plants based on crop residue (paddy straw /wheat straw /corn sweet sorghum/ napier grass, etc.) | 20 | - | 20 | 10 | - | 10 | 10 | 40 | Green | If discharge is more than 100 KLD, PI will be 50 and will be categorized as Orange |

| | | | | | | | | | | | |
|----|--|----|---|----|----|---|----|----|----|-------|--|
| d. | CBG plants based on animal waste (dairy farms, poultry farms, and other animal waste) | 20 | - | 20 | 10 | - | 10 | 10 | 40 | Green | If discharge is more than 100 KLD, PI will be 50 and will be categorized as Orange |
| e. | CBG plants (irrespective of the type of feed) producing Fermented Organic Manure (FOM) & Liquid Fermented Organic Manure (LFOM) as by-products | - | - | - | 10 | - | 10 | 10 | 20 | White | CBG plants producing FOM & LFOM as by products in conformity with requirements of Gazette Notification No. 2051 dated 14.07.2020 & No. 1972 dated 01.06.2021, respectively, and utilizing entire FOM & LFOM as a fertilizer or manure on land and also not discharging any waste-water, to be considered under White category, subject to verification by SPCB on case-to-case basis. Above criteria may be re-assessed based on ground conditions after a period of two years. |
| 38 | Household bio-digesters/gobar-gas (cow-dung) plants based on biodegradable wastes, etc. | - | - | - | - | - | - | - | - | White | Household bio-digesters/gobar-gas (cow-dung) plants based on biodegradable wastes, etc. with feed slurry to digesters having Volatile Organic Fraction more than 75 %, to be considered under 'White' category. |

Address List of Member Secretary, SPCBs/PCCs

| | | | |
|-----|---|-----|---|
| 1. | The Chairman Andhra Pradesh State Pollution Control Board D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalmvari Street, Kasturibaipet, Vijayawada- 520010 Andhra Pradesh | 2. | The Chairman Arunachal Pradesh State Pollution Control Board 'ParyavaranBhavan', Yupla Road, Pappu Nallah, Naharlagun – 791110 Arunachal Pradesh |
| 3. | The Chairman Assam State Pollution Control Board Bamunimaidan, Guwahati – 781021 Assam | 4. | The Chairman Bihar State Pollution Control Board PariveshBhawan, Plot No.N-B/2, Patliputra Industrial Area Patna-800023 |
| 5. | The Chairman Chhattisgarh Environment Conservation Board ParyavasBhawan, North Block Sector-19 NayaRaipur – 492 099 Chhattisgarh | 6. | The Chairman Goa State Pollution Control Board Dempo Tower, EDC Plaza, 1 st floor Patto Plaza, Panaji, Goa – 403001 |
| 7. | The Chairman Gujarat State Pollution Control Board Sector 10-A, Gandhi Nagar – 382043 Gujarat | 8. | The Chairman Haryana State Pollution Control Board C-11, Sector 6, Panchkula, Haryana 134109 |
| 9. | The Chairman Himachal Pradesh State Pollution Control Board ParyavaranBhavan, Phase III, New Shimla – 171009 Himachal Pradesh | 10. | The Chairman J&K State Pollution Control Board, Parivesh Bhawan, Shiekh-ul-Campus, behind Govt. Silk Factory, Raj Bagh, Srinagar(J&K) |
| 11. | The Chairman Jharkhand State Pollution Control Board T.A Building, HEC Campus, P.O. Dhurwa Ranchi – 834004 Jharkhand | 12. | The Chairman Karnataka State Pollution Control Board ParisaraBhavan, 4 th & 5 th floors, Church Street, Bangalore – 560 001 Karnataka |
| 13. | The Chairman Kerala State Pollution Control Board Plamoodu Junction, Pattam Palace P.O. Thiruvananthapuram – 695004 Kerala | 14. | The Chairman Maharashtra State Pollution Control Board Kalpataru Point, 3 rd & 4 th floors Sion Matunga Scheme Road No. 6 Opp. Cine Planet, Sion Circle, Sion (E), Mumbai 400 022 Maharashtra |
| 15. | The Chairman Madhya Pradesh Pollution Control Board ParyavaranParisar, E-5 Arera Colony Bhopal – 462016 Madhya Pradesh | 16. | The Chairman Manipur State Pollution Control Board Lamphelpat, Imphal West D.C. Office Complex – 795004 Manipur |
| 17. | The Chairman Meghalaya State Pollution Control Board Arden, Lumpyngngad, Shillong – 793014 Meghalaya | 18. | The Chairman Mizoram State Pollution Control Board New Secretariat Complex, Khatla, Thlanmual Peng, Aizwal Mizoram- 796001 |
| 19. | The Chairman Nagaland State Pollution Control Board Signal Point, Dimapur, Nagaland – 797112 | 20. | The Chairman Odisha State Pollution Control Board ParibeshBhawan A-118, Nilakanta Nagar, Unit –VIII, Bhubaneshwar – 751012. Odisha |

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|-----|--|-----|---|
| 21. | The Chairman Punjab State Pollution Control Board Nabha Road, ITI Rd, Adarsh Nagar, Prem Nagar, Patiala - 147001. Punjab | 22. | The Chairman Rajasthan State Pollution Control Board A-4 Institutional Area, JhalaneDungri Jaipur – 302004. Rajasthan |
| 23. | The Chairman Sikkim State Pollution Control Board State land Use & Environment Cell Govt. of Sikkim, Deorali, Gangtok. Sikkim | 24. | The Chairman Tamil Nadu Pollution Control Board No. 76, Mount Salai, Guindy, Chennai - 600032. Tamil Nadu |
| 25. | The Chairman Telangana State Pollution Control Board ParyavaranBhavan A-3, Industrial Estate, Sanath Nagar, Hyderabad – 500 018. Telangana | 26. | The Chairman Tripura State Pollution Control Board PariveshBhawan, Pt. Nehru Complex, Gorkhabasti P.O., Kunjaban, Agartala, West Tripura - 799 006. Tripura |
| 27. | The Chairman Uttarakhand Environment Protection & Pollution Control Board 29/20, Nemi Road, Dehradun – 248001. Uttarakhand | 28. | The Chairman Uttar Pradesh State Pollution Control Board Building, No. TC-12V VibhutiKhand, Gomti Nagar, Lucknow– 226010. Uttar Pradesh |
| 29. | The Chairman West Bengal State Pollution Control Board ParibeshBhavan Building, No.10-A, Block –LA, Sector 3, Salt Lake City, Kolkata – 700 091. West Bengal | | |
| 30. | The Chairman Andaman & Nicobar Islands Pollution Control Committee Department of Science & Technology Dollyganj Van Sadan, Haddo P.O., Port Blair-744102 Andaman & Nicobar | 31. | The Chairman Chandigarh Pollution Control Committee ParyavaranBhawan Madhya Marg, Sector - 19 B, Chandigarh – 160019. Chandigarh |
| 32. | The Chairman Daman, Diu & Dadra Nagar Haveli Pollution Control Committee Office of the Deputy Conservator of Forests Moti Daman, Daman – 396220. Daman & Diu | 33. | The Chairman Delhi Pollution Control Committee 4 th floor, ISBT Building, Kashmeri Gate, Delhi - 110006. Delhi |
| 34. | The Chairman Lakshadweep Pollution Control Committee Lakshadweep Administration Department of Science, Technology & Environment Kavarati – 682555. Lakshadweep | 35. | The Chairman Puducherry Pollution Control Committee Department of Science, Technology & Environment Housing Board Complex, 3 rd floor, Anna Nagar, Pondichery – 600 005 |

Regional offices Address

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| 1. | The Regional Director Regional Directorate (East) Central Pollution Control Board 502, Southend Conclave 1582, Rajdanga Main Road Kolkata-700107 | 2. | The Regional Director Regional Directorate (West) Central Pollution Control Board Parivesh Bhawan, Opp Ward No.10 VMC Office Subhanpura Road Vadodara- 390023 Gujarat |
| 3. | The Regional Director Regional Directorate (North-East) Central Pollution Control Board TUM-SIR, Lower Motinagar, Near Fire Brigade H.Q Shillong-793014 | 3. | The Regional Director Regional Directorate (Central) Central Pollution Control Board 3 rd Floor, Sahkar Bhawan North T.T Nagar Bhopal- 462003 |
| 5. | The Regional Director Regional Directorate (North) Central Pollution Control Board Ground Floor, PICUP Bhawan Vibhuti Khand, Gomti Nagar Lucknow- 226020 | 6. | The Regional Director Regional Directorate (South) Central Pollution Control Board 1 st & 2 nd Floors, Nisarga Bhawan A-Block, Thimmaiah Main Road 7 th D Cross, Shivanagar Opposite Pushpanjali Theatre Bangalore 560010 |
| 7. | The Regional Director Regional Director - Chennai Central Pollution Control Board 77-A, Second Floor South Avenue Road, Ambattur Industrial Estate, Ambattur Taluk, Thiruvallur District, Chennai - 600 058 | 8. | The Regional Director Regional Directorate (Pune) Central Pollution Control Board Parivesh Bhawan, East Arjun Nagar, Delhi-110032 |
| 9. | The Regional Director Regional Directorate (Chandigarh) BSNL Exchange, 2nd Floor Sector 49-C, Chandigarh Pin-160047 | | |