



**Dated.** .....

- 1) The Chief Environmental Engineer,  
Punjab Pollution Control Board, PBIP/HQ  
Patiala, Bathinda, Jalandhar, Ludhiana.
- 2) The Senior Environmental Engineer,  
Punjab Pollution Control Board,  
HQ 1/2, Zonal Office, Jalandhar, Amritsar,  
Bathinda, Ludhiana 1/2, Patiala 1/2.
- 3) The Environmental Engineer,  
Punjab Pollution Control Board,  
Regional Office, Patiala/Ludhiana-1/2/3/4/Batala/ Sangrur/  
Jalandhar-1/2/Amritsar/Hoshiarpur/ SAS Nagar/ Roopnagar/  
Bathinda/Faridkot/Fatehgarh Sahib/ HQ-1/2/3/EPA/HWM/Const..

Ref: **CPCB letter no. CPCB/IPC-VI/ROGW6686-6730 dated 22.09.2021.**

CPCB vide letter no. CPCB/IPC-VI/ROGW6686-6730 dated 22.09.2021 informed that the categorization of CBG plants as above has been superseded. Now, the categorization w.r.t. '**Compressed Biogas (CBG)/Bio-CNG plants**' and '**Household biogas/gobar-gas (cow-dung) plants based on biodegradable wastes, etc.**' is modified as under:

91	1091	Compressed Biogas (CBG)/Bio-CNG plants	New addition
		<p><i>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.</i></p> <p><i>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 &amp; 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 &amp; handling of organic waste and composting. Exhausted</i></p>	

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		adsorption media/filters, used lubrication/hydraulic oils and spent solvents may also get generated as hazardous waste.  <i>Accordingly, the following classification is suggested:</i>	
	1091 A	CBG plants based on Municipal Solid Waste (MSW) <ul style="list-style-type: none"> <li>The waste contains heterogeneous material.</li> <li>The anaerobic biodegradation of the same may generate waste water containing high BOD and COD.</li> <li>If discharge of wastewater is more than 100 KLD.</li> </ul>	New addition Also refer O-106 (2106-A)
	1091 B	CBG plants based on process waste (industrial/process liquid effluent & solid waste like press mud, organic sludge, molasses, etc) <ul style="list-style-type: none"> <li>The anaerobic biodegradation of the same may generate waste water containing high BOD and COD.</li> <li>If discharge of wastewater is more than 100 KLD.</li> </ul>	New addition Also refer O-106 (2106-B)

**B. Orange Category**

106	2106	Compressed Biogas (CBG)/Bio-CNG plants  <i>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.</i>  <i>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 &amp; 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 &amp; handling of organic waste and composting. Exhausted adsorption media/filters, used lubrication/hydraulic oils and spent solvents may also get generated as hazardous waste.</i>  <i>Accordingly, the following classification is suggested:</i>	
	2106 A	CBG plants based on Municipal Solid Waste (MSW) <ul style="list-style-type: none"> <li>The waste contains heterogeneous material.</li> <li>The anaerobic biodegradation of the same may generate waste water containing high BOD and COD.</li> <li>If discharge of wastewater is less than or equal to 100 KLD.</li> </ul>	Also refer R-91 (1091-A)
	2106 B	CBG plants based on process waste (industrial/process liquid effluent & solid waste like press mud, organic sludge, molasses, etc) <ul style="list-style-type: none"> <li>The anaerobic biodegradation of the same may generate waste water containing high BOD and COD.</li> </ul>	Also refer R-91 (1091-B)  

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		<ul style="list-style-type: none"> <li>If discharge of wastewater is less than equal to 100 KLD.</li> </ul>	
	2106 C	CBG plants based on crop residue (paddy straw/wheat straw/corn sweet sorghum/napier grass, etc.) <ul style="list-style-type: none"> <li>If discharge is more than 100 KLD.</li> </ul>	Also refer G- 71 (3071-A)
	2106 D	CBG plants based on animal waste (dairy farms, poultry farms, and other animal waste) <ul style="list-style-type: none"> <li>If discharge is more than 100 KLD.</li> </ul>	Also refer G- 71 (3071-B)

## C. Green Category

71	3071	Compressed Biogas (CBG)/Bio-CNG plants <i>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.</i> <i>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 &amp; 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 &amp; handling of organic waste and composting. Exhausted adsorption media/filters, used lubrication/hydraulic oils and spent solvents may also get generated as hazardous waste.</i> <i>Accordingly, the following classification is suggested:</i>	
	3071 A	CBG plants based on crop residue (paddy straw/wheat straw/corn sweet sorghum/napier grass, etc.) <ul style="list-style-type: none"> <li>If discharge is less than or equal to 100 KLD.</li> </ul>	Also refer O – 106 (2106-C)
	3071 B	CBG plants based on animal waste (dairy farms, poultry farms, and other animal waste) <ul style="list-style-type: none"> <li>If discharge is less than or equal to 100 KLD.</li> </ul>	Also refer O – 106 (2106-D)

## D. White Category

138	4138	Household bio-digesters/gobar-gas (cow-dung) plants based on biodegradable waste, etc. <ul style="list-style-type: none"> <li>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%.</li> </ul>	
140	4140	Compressed Biogas (CBG)/Bio-CNG plants <i>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.</i>	New Addition 



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		<p><i>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 &amp; 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 &amp; handling of organic waste and composting. Exhausted adsorption media/ filters, used lubrication/hydraulic oils and spent solvents may also get generated as hazardous waste.</i></p> <p><i>Accordingly, the following classification is suggested:</i></p>	
	4140 A	<p>CBG plants (irrespective of the type of feed) producing Fermented Organic Manure (FOM) &amp; Liquid Fermented Organic Manure (LFOM) as by-products.</p> <ul style="list-style-type: none"> <li>• CBG plants producing FOM &amp; LFOM as by products in conformity with requirements of Gazette Notification No. 2051 dated 14.07.2020 &amp; No. 1972 dated 01.06.2021, respectively, and utilizing entire FOM &amp; LFOM as a fertilizer or manure on land and also not discharging any waste-water, subject to verification by SPCB on case-to-case basis.</li> <li>• Above criteria may be re-assessed based on ground conditions after a period of two years.</li> </ul>	Also refer R-91, O-106, G-71

This is for your information and compliance.

Endst no. 93410

<sup>3d-</sup>  
Member Secretary

Dated 26/10/2021

A copy of the above is forwarded to the Environmental Engineer (Computer), Punjab Pollution Control Board, Patiala for uploading the office order on the website of the Board.

*K. Gail*  
Member Secretary