

Date: 17 January 2026.

Shri R.K.Barthakur,
Director,
Greenovo Eco Solutions Pvt Ltd,
Guwahati, Assam-781001.

Dear Shri Barthakur,

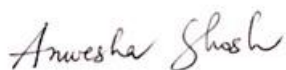
Please refer to your email dated 21.11.2025 (Ref No: AAMPL/25-26/IISER/02) requesting validation of a set of results linked to reduction of methane in Belortol Dumpsite, Boragaon, Guwahati in the state of Assam.

The results were provided in the form of annexures and supporting report explaining site information, methane emission issue along with other volatile organic compounds and a novel method to control the methane emission undertaken in the same site (landfill site) in Boragaon, Guwahati metropolis. The pilot site of 500 m² area was considered and based on measurements methane emission from the landfill surface ranged between 1000-1900 ppm while in surrounding atmosphere the concentration exceeded 5320 ppm. Using biological delivery systems passed through vertical corers based on one time injection in the 500 m² area, methane emission dramatically reduced to zero ppm in many corer zones and for surrounding atmosphere the emission ranged from 0-3200 ppm. The study was found to be reproducible based on the data provided; approaches were novel and remarkably methane emission reduced significantly over a period spanning more than 60 days following the initial injection.

This approach as detailed in the annexures represent a unique pathway that have tackled pressing issue of methane emission in a landfill site on a pilot scale using biological methods. The approach seems cost effective and truly versatile in terms of ease of implementation and overall sustainability.

This pilot scale study undertaken and based on the evidences provided could be recommended for large scale implementation towards effective long-term management of landfill sites in urban areas. This will lead to overall improvement of air quality, improve safety of landfill sites to be considered for legacy mining and most importantly will contribute to the state and national level missions of governments.

Regards.



Dr Anwesha Ghosh,
CCES, IISER Kolkata.



Validation report endorsed by
Punyasloke Bhadury, PhD
Professor, IISER Kolkata.

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