



NEW BASELINE AND MONITORING METHODOLOGY OR METHODOLOGICAL TOOL PROPOSAL FORM (Version 01.0)

SECTION 1: INFORMATION ABOUT THE PROPOSED NEW BASELINE AND MONITORING METHODOLOGY OR NEW METHODOLOGICAL TOOL

Type of standard	New baseline and monitoring methodology
Title of the proposed new methodology or new methodological tool	Dynamic methodology for quantifying GHG emission reductions from organic waste vermicomposting using First Order Decay and Global Sensitivity Analysis
Type of mitigation activity	☒ Emission reductions activity ☐ Removals activity ☐ Combined emission reductions and removals activity
Sectoral scope¹ to which the proposed new methodology applies <i>(check more than one option as appropriate – leave blank in case of proposed new methodological tool)</i>	☐ 1. Energy industries (renewable - / non-renewable sources) ☐ 2. Energy distribution ☐ 3. Energy demand ☐ 4. Manufacturing industries ☐ 5. Chemical industries ☐ 6. Construction ☐ 7. Transport ☐ 8. Mining/mineral production ☐ 9. Metal production ☐ 10. Fugitive emissions from fuels (solid, oil and gas) ☐ 11. Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride ☐ 12. Solvent use ☒ 13. Waste handling and disposal ☐ 14. Afforestation and reforestation ☒ 15. Agriculture ☐ 16. Carbon capture and storage of CO ₂ in geological formation ☐ 17. Other activities involving removals

¹ The sectoral scopes as contained above are from “Article 6.4 mechanism accreditation standard” (A6.4-STAN-ACCR-001) which may be further revised by the Article 6.4 Supervisory Body.

Title of the proposed A6.4 project or PoA applying the proposed new methodology or new methodological tool	Nutriwash Circular System: Integrated Vermicomposting for GHG Mitigation and Organic Recovery
Attachments	☒ Draft PDD ☐ Draft PoA-DD ☒ Proposed new baseline and monitoring methodology or methodological tool form (A6.4-METH-FORM-002) ☒ Additional supporting information (<i>Optional; please specify any supporting information</i>) - Python calculation script (ghg_calculator.py): Provided for full transparency and computational reproducibility. - Validation Reports: Comprehensive data, figures, and results from Monte Carlo simulations and Global Sensitivity Analysis.
SECTION 2: DETAILS OF THE PROPONENT	
Name of the proponent	Cassio Luiz Vellani
Affiliation	☐ Activity participant of a planned project or coordinating/managing entity of a planned PoA ☐ Designated National Authority (DNA) ☐ Designated Operational Entity (DOE) ☒ Other stakeholder
Name of authorized officer signing for the proponent	Cassio Luiz Vellani 
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Date and signature for the proponent	13/02/2026

Document information

Version	Date	Description
01.0	18 December 2024	Initial publication of form template.

<i>Version</i>	<i>Date</i>	<i>Description</i>
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