Perfect Pollucon Services
Environmental Consultant

https://www.ppsthane.com

Stack Emission Calculation Sheet

This document provides a structured format for calculating stack emissions. Users can input necessary parameters and compute pollutant emissions from industrial stacks.

1. General Information

Industry Name	_____
Stack ID	_____
Location	_____
Date	_____
Observer Name	_____

2. Stack Parameters

Stack Height (m)	_____
Stack Diameter (m)	_____
Gas Exit Velocity (m/s)	_____
Stack Temperature (°C)	_____
Stack Gas Flow Rate (Nm^3/hr)	_____

3. Emission Concentrations (mg/Nm^3)

Particulate Matter (PM)	_____
Sulfur Dioxide (SO_2)	_____
Oxides of Nitrogen (NO_x)	_____
Carbon Monoxide (CO)	_____
Volatile Organic Compounds (VOC)	_____

4. Emission Rate Calculation

Emission Rate (kg/hr) is calculated using the formula:

Emission Rate (kg/hr) = (Concentration (mg/Nm^3) × Flow Rate (Nm^3/hr)) / 1,000,000

Particulate Matter (PM) Emission Rate (kg/hr)	_____
Sulfur Dioxide (SO_2) Emission Rate (kg/hr)	_____
Oxides of Nitrogen (NO_x) Emission Rate	_____

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(kg/hr)	
Carbon Monoxide (CO) Emission Rate (kg/hr)	_____
Volatile Organic Compounds (VOC) Emission Rate (kg/hr)	_____

5. Regulatory Limits and Compliance

Pollutant	Regulatory Limit (kg/hr)	Compliance (Yes/No)
Particulate Matter (PM)	_____	_____
Sulfur Dioxide (SO_2)	_____	_____
Oxides of Nitrogen (NO_x)	_____	_____
Carbon Monoxide (CO)	_____	_____
Volatile Organic Compounds (VOC)	_____	_____

6. Remarks and Recommendations

Observations: _____

Corrective Actions (if any): _____

Reviewed by: _____ Date: _____