

XYZ Mining Ltd.

Seam X - Choritand Tilaya

Monthly Greenhouse Gas Emissions Report

Reporting Period: March 2025

Submission Date: April 2, 2025

SECTION 1: REPORT OVERVIEW

Mine Operator: XYZ Mining Ltd.

Mine Location: Choritand Tilaya

Report Prepared By: Environmental Management Cell

Designation: Mine Environmental Officer

Email: env.officer@xyzmining.in

Phone: +91-XXXXXXXXXX

Reporting Standard:

- IPCC AR6 Guidelines (2021)
- Central Electricity Authority (CEA) Grid Emission Factors (2023)
- Ministry of Environment, Forest and Climate Change (MoEFCC) compliance framework

SECTION 2: SUMMARY OF EMISSIONS BY SECTOR (kg CO2e)

Sector	Activity	Emission Source	Emissions (kg CO2e)
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1. Extraction	Open-cast Mining	Diesel Combustion	26,800
	Underground Mining	Methane (CH4) Emissions	28,000

Equipment Electricity	Grid Electricity	41,000	
2. Overburden Removal	Drilling Operations	Diesel Usage	8,040
Blasting	Explosives (ANFO)	3,900	
OB Hauling	Diesel (Truck Haul)	40,200	
3. Coal Processing	Crushing & Washing	Grid Electricity	32,800
Coal Washing	Fugitive CH4	28	
4. Waste Management	Tailings Ponds	CH4 Emissions	140
Waste Transport	Diesel Usage	4,020	
5. Support Infrastructure	Diesel Generators	Diesel Combustion	5,360
Workshops	Grid Electricity	8,200	
6. Coal Dispatch	Road Transport	Diesel (Trucks)	20,000
Rail Transport	Diesel/Electricity	2,500	
7. Rehabilitation	Land Reforestation	Diesel Machinery	1,340
Tree Plantation	Carbon Sequestration (Offset)	-22,000	
8. Exploration	Borehole Drilling	Diesel Usage	3,216
Crew Movement	Diesel (Vehicle)	161	

TOTAL GROSS EMISSIONS: 255,705

CARBON OFFSETS: -22,000

NET EMISSIONS: 233,705

SECTION 3: DECLARATION

I hereby certify that the above data is complete and accurate to the best of my knowledge and based on verifiable records. This report is prepared in accordance with MoEFCC, IPCC, and CEA standards and is submitted for compliance under the applicable environmental regulations.

Authorized Signatory:

Name: Mr. [Your Name]

Designation: Mine Environmental Officer

Date: April 2, 2025

Seal & Signature: _____

Note: This report has been generated digitally and is submitted electronically as part of the monthly environmental compliance protocol. All original documentation is retained at the mine site and is available for audit upon request.