Extraction of GHG Emissions Data from BRSR Reports

<u>Click here</u> to access BRSR filings by entities listed on NSE. This link provides access to the BRSR filings in PDF & XML format. The data must be extracted from these PDF / XML files into the format mentioned below:

Company Name	BRSR Filing Date	Unit of Measurement	Scope 1 Emissions	Scope 2 Emissions

Dataset can be found in Principle 6, Essential Indicators, Question 7 of the BRSR filed by the entities. Sample screenshot of data for <u>Alkem Laboratories - Page 35</u> is as follows for reference:

7. Provide details of greenhouse gas emissions (Scope 1 and Scope 2 emissions) & its intensity, in the following format:

Parameter	Unit	FY 2023-24 (Current FY)	FY 2022-23** (Previous FY)	
Total Scope 1 Emissions (Break-up of the GHG into CO2,	tCO,e	19,249	15,773	
CH4, N2O, HFCs, PFCs, SF6, NF3, if available) -	-			
(HSD, LDO, FO, Coal, Petrol, CNG, Refrigerants)				Data to be
Total Scope 2 Emissions (Break-up of the GHG into	tCO ₂ e	82,319	2	extracted
CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, if available) – (Grid				Oxtraotoa
electricity, Purchased Liquid Nitrogen, Purchased steam)				
Total Scope 1 and Scope 2 Emissions	tCO₂e	1,01,568	94,274	
Total Scope 1 and Scope 2 Emissions Intensity per rupee	tCO2e/	1.04	1.04	
of turnover (Total Scope 1 and Scope 2 GHG Emissions /	million INR			
Revenue from operations)				
Total Scope 1 and Scope 2 Emissions Intensity per rupee	tCO ₂ e/	23.34*	23.32*	
of turnover adjusted for Purchasing Power Parity (PPP)	million INR			
(Total Scope 1 and Scope 2 GHG Emissions / Revenue from				
operations adjusted for PPP)				
Total Scope 1 and Scope 2 Emissions Intensity in terms of	tCO2e/MT	2.14	2.02	
physical output				
Total Scope 1 and Scope 2 Emissions Intensity (optional)	-	-	-	
- the relevant metric may be selected by the entity				

^{**}Formula for calculating Intensity per rupee of turnover adjusted for PPP = (Emissions/ Revenue) \times 22.401. The conversion factor (22.401) is sourced from International Monetary Fund (IMF).

Submission Requirements

- 1. Scope 1 & Scope 2 GHG Emissions data of FY24 for BRSR filings done by all entities in excel file.
- 2. Prepare a slide depicting step-by-step process used to extract the data from the PDF / XML files.
- 3. For any one sector of choice, conduct benchmarking exercise for Scope 1 & Scope 2 emissions in excel.

^{**}FY'23 emission figures do not include some of the energy sources (Liquid Nitrogen, Vehicle fuel, and Ozone Depleting Substances) due to limited availability of data.