

- Optimisation and improvement of the production processes, end-of-life scenarios, etc.
- Stimulating the generation of information on the life cycle performance of materials to support both reductions in the footprint of the upstream activities to harvest the materials, as well as more sustainable applications of materials in products
- Objectively analysing different future scenarios and possible alternatives and their implications and impact on the life cycle
- Third party standards and rating schemes that are trying to improve the environmental footprint of product and building systems

A set of life cycle environmental impact indicators such as Abiotic Depletion of Fossil Elements, Acidification Potential, Eutrophication Potential, Global Warming Potential, Ozone Layer Depletion Potential, Photochemical Ozone Creation Potential, Primary Energy Demand and Blue Water Consumption were considered. While comparing the results, it was found that company's results are at par with the world average data.

- Electricity consumption contributes to major environmental impact in the value chain of zinc. Company relies on captive power plant, it is imperative to improve the captive power plant efficiency To find the most energy efficient circuit design and operating strategy. Energy efficiency projects such as revamping of all the turbines, improvement of cellhouse efficiency at ZSD, other projects like installation of variable frequency drives across operations, switching from high-speed diesel to pipe natural gas, Replacement of conventional tube lights with energy efficient LED tube lights have also contributed to energy savings in our operations.

Water consumption was also identified as major environmental impact in the value chain of zinc. Company has commissioned India's 1<sup>st</sup> Dry tailing plant at Zawar mines which recirculates more than 80% of the process water present in tailings. It has successfully commissioned a 3000 KLD RO-ZLD plant at its Debari smelter which recycles processed water, which is then reused in operations. We have also set out plans to commission the ZLD plants at all our units and remain committed to principles of water conservation and zero discharge.

**3. Percentage of recycled or reused input material to total material (by value) used in production (for manufacturing industry) or providing services (for service industry).**

Nil. We are primary manufacturer of non-ferrous metals.

Indicate input Material	Recycled or reused input material to total material	
	FY 2022	FY 2021
NA	NIL	NIL

**4. Of the products and packaging reclaimed at end of life of products, amount (in metric tonnes) reused, recycled, and safely disposed, as per the following format:**

Not applicable as per EPR guidelines

**5. Reclaimed products and their packaging materials (as percentage of products sold) for each product category.**

Indicate product category	Reclaimed products and their packaging materials as % of total products sold in respective category	
	Not Applicable	

**PRINCIPLE 3: BUSINESSES SHOULD RESPECT AND PROMOTE THE WELL-BEING OF ALL EMPLOYEES, INCLUDING THOSE IN THEIR VALUE CHAINS**

**ESSENTIAL INDICATORS**

**1. a. Details of measures for the well-being of employees:**

Category	% of employees covered by					
	Total (A)	Health insurance (B)	Accident insurance (C)	Maternity benefits (D)	Paternity Benefits (E)	Day Care facilities (F)
		Number % (B / A)	Number % (C / A)	Number % (D / A)	Number % (E / A)	Number % (F / A)