



The SIPL team strives to analyze best possible ways to identify hot spots and opportunities to create most accurate and transparent results in LCA. SimaPro, the world's leading LCA software and site specific life cycle data collected by SIPL team at Tata Metaliks plant provided the required accuracy in LCA results.

Efficient and accurate LCA studies depend on local data.

The challenge in doing LCAs is staying up-to-date with the latest data for all life cycle stages while still finishing in a timely and efficient way. SIPL prides itself in executing LCAs on site specific data and Indian data for transportation and Electricity.

Separate processes based on site and India data were created for the following

- ✚ Extraction of iron ore
- ✚ Production of iron ore fines and lumps
- ✚ Extraction of coal
- ✚ Production of coke and coke oven gas
- ✚ Production of pulverized coal
- ✚ Electricity from captive power plant based on coke oven gas
- ✚ Production of Sinter
- ✚ Production of Hot metal in blast furnace
- ✚ Electricity from captive power plant based on blast furnace gas
- ✚ Production of Ductile Iron Pipes and
- ✚ Production of PIG irons

The effort gets reflected in accuracy of environmental results.