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Bright Future for India's Iron & Steel Industry Driven by Rising Demand

Nimit Mittal,
Managing Partner,
Cenlub Systems



Bridging the Gap: India's Path to Steel Industry Growth

Dr. Roger Kumar,
Managing Director, Case Group

■ **Advancements in Iron Ore Processing for Steel Production**

■ **Integrated Pelletization & DRI Technology: A Necessity for India's Sponge Iron Industry**

■ **Steel Industry: Trends Shaping the Future**



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Bridging the Gap: India's Path to Steel Industry Growth

- Dr. Roger Kumar,
Managing Director, Case Group

Dr. Roger Kumar is a visionary entrepreneur and the Founder of CASE Group, a pioneering industrial conglomerate that has achieved remarkable growth and innovation since its inception in January 1993. As a Mechanical engineering graduate from NIT Kurukshetra, he has exhibited unparalleled leadership, transforming CASE Group into a trailblazing manufacturer and provider of cutting-edge industrial solutions. His strategic acumen and unwavering commitment to excellence have led CASE Group to expand its scope of offerings without any limitation on reach. He completed his engineering degree from one of the most prestigious engineering colleges in India, Regional Engineering College, Kurukshetra, Now known as National Institute of Technology, Kurukshetra. (NIT). After graduation, he started his career with one of the leading engineering companies in the country. He rose quickly in ranks in this company with his hard work, passion and perseverance. Mr. Kumar's expertise in engineering, project management, and business strategy has been instrumental in the growth of the company. He has led the company through some of the most significant transformations, adapting to the evolving industry landscape and changing customer needs. During his tenure as the Managing Director, CASE Group has witnessed significant growth and expansion. The company has completed several large-scale projects and expanded its operations across the globe. Under Roger Kumar's leadership, CASE Group has grown into a multimillion-dollar organization with a global presence.

D A Chandekar, Editor & CEO of Steelworld had an exclusive interaction with Dr. Roger Kumar to understand more about how is the present status of the Iron & Steel Industry, what are the latest offerings from Case Group, how can a coal gasifier reduce the carbon footprint, etc.

How is the present status of the Iron & Steel Industry?

The Indian steel industry is still nascent compared to China and the USA. India is currently stuck at 125 million



tons, while the USA produces six times that amount and China produces ten times that of India. The good news is that our infrastructure is yet to catch up with China and the USA, so we do have



a humongous scope for rapid growth in this industry, and we may catch up with China in 5 to 10 years. It is encouraging to note that awareness of quality steel is increasing. We see more blast furnaces being built and greater emphasis on controlling sulfur and phosphorus levels in steel.

What are the latest offerings from Case Group?

Case Group has always served the steel industry at the helm. Apart from cooling towers and air pollution control devices, we are also providing coal gasification technology to the steel industry, where our contribution is more than 50%. Recently, our 9x4.2M Clean Cold Gasifiers have been commissioned at Rungta Mines, Kamanda. Additionally, we have entered the technology sector to provide pure oxygen-based gasifiers, where we can manage the H₂/CO ratio for use in DRI vertical kilns. This will be a boon for the Indian steel industry.

How can a coal gasifier reduce the carbon footprint and contribute to green steelmaking?

When we can produce syngas consisting only of H₂ and CO, we can effectively capture CO₂ and use it to create various chemicals like methanol, bicarbonate, and dry ice. This reduces the carbon footprint not only in steel production but also for the environment. This technology represents the future of the Indian steel industry and will help produce blue steel. Green steel can be achieved by generating green hydrogen and using it to reduce iron ore to make steel. This technology is also available with us today, although the cost is currently a bit high.

However, this is the future of the steel industry worldwide.

What are your future growth plans?

Our future growth plans involve making chemicals from coal. The idea is to gasify coal to produce hydrogen, methanol, urea, and other chemicals. Hydrogen can be used for industrial thermal applications and for automobiles. This strategy will also improve India's balance of payments status by saving billions of foreign currency spent on imports

