

IRON AND STEEL: FROM CRADLE TO CROWN

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Driven by national need to develop indigenous technology to suit raw materials of our country, CSIR-NML, since inception, conceptualized and executed several pioneering research programmes in the area of iron and steel making, including production of pig iron in low shaft furnace, sponge iron making in rotary kiln. Research activity on top and side blown convertors was considered ahead of time initiatives. Ferroalloy development, the backbone of steel industry originated and was nurtured for more than five decades at NML. Energy and environmental considerations shaped foundry research whereas development of tribal iron making was driven by a quest to preserve heritage. Starting with baby blast furnace in early years to advanced modeling studies in recent times, this article narrates the journey of NML in iron and steel making with emphasis on relevance and impact.
