

Curriculum Vitae

Born on April 24, 1965, at Ranchi, Jharkhand, the author completed his graduation in Mechanical Engineering in year 1991 from Muzzaferpur Institute of Technology, Muzzaferpur. He joined M/s Bharat Refractory Limited and worked as a Maintenance Engineer before joining National Institute of Foundry and Forge Technology, Ranchi, in year 1995. He has completed his M tech. in manufacturing Engineering at NIFFT Ranchi, in year 2000. The keen interest of author for advanced research made him to join the department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur in 2002 as QIP scholar. He has to his credentials five International publications from his work till date. In addition to that he has presented papers in number of seminars and conferences. A part of the result containing in the present thesis have been published as shown below.

1. Toppo, V., Singh, S. B. and Ray, K. K. (2009), Wear resistance of annealed plain carbon steels in pre-strained conditions, *Wear*, Vol. 266, pp. 907-916.
2. Ray, K. K., Toppo, V. and Singh, S. B. (2006), Influence of pre-strain on the wear resistance of a plain carbon steel, *Material science and Engineering*, Vol. 420A, pp. 333-341.
3. Krishnan, S. N., Toppo, V., Basak, A. and Ray, K. K. (2006), Wear behaviour of a steel weld-joint, *Wear*, Vol. 260, pp. 1285-1294.