



Novel gear mechanism

Consolation
Transport



Nishant Ray
Khagaria, Bihar

Hailing from Khagaria, a small town in Bihar surrounded by seven rivers, Nishant Ray (27) is a passionate innovator with a fertile mind that has spawned several innovations. Undeterred by discouragement and the criticism faced, he has always pursued his proclivity. He has made a modified gear system for rickshaws/bicycles to reduce effort in pulling the load. The new gear mechanism enables a person to pedal backwards to move in higher gear. It also prevents the reverse motion of rickshaw on slopes.

NIF supported Nishant for prototype development and facilitated its testing at BIT, Mesra, Ranchi where the performance was found to be satisfactory. Nishant was also felicitated during the 22nd Shodh Yatra in Bihar in January 2009 for his creativity.

NIF has filed a patent (1714/KOL/2007) for the technology in the innovator's name.