



भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर
Indian Institute of Technology Bhubaneswar

Press Release

**IIT Bhubaneswar partners with Numeros Motors to Pioneer
Rare Earth-Free Motor Technologies**

The collaboration aims to drive innovation in sustainable and affordable EV components, reducing dependency on rare minerals

Bhubaneswar, 22nd April 2025: Numeros Motors, a new-age OEM specializing in indigenous electric mobility solutions, has entered into a strategic research collaboration with the Indian Institute of Technology (IIT) Bhubaneswar. The two entities have signed an agreement to jointly undertake a two-year research initiative focused on exploring and evaluating various non-magnet or rare earth-free (RE-free) motor topologies. Aimed at revolutionising the electric mobility space, this innovation will identify robust, cost-effective, and sustainable motor technologies catering to India's rapidly growing electric vehicle market. The agreement was signed in presence of Prof. Dinakar Pasla, Dean (Sponsored Research & Industrial Consultancy), IIT Bhubaneswar.

The collaboration is intended to support India's clean mobility goals by reducing dependence on rare earth materials—key components in traditional EV motors—and by encouraging local innovation in EV manufacturing. By combining IIT Bhubaneswar's academic expertise in electrical engineering with Numeros Motors' practical knowledge of electric drivetrain systems, the project will focus on developing motor solutions that are both efficient and affordable. The initiative is aligned with India's vision to promote self-reliant, sustainable EV technologies.

Speaking on this occasion, **Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar** said: "Industry-Academia collaboration and entrepreneurship are among the primary focus areas of IIT Bhubaneswar. We are happy to collaborate in the field of Electric Vehicles with a vision to ensure sustainability." He also highlighted the initiatives in the area of Electric Vehicles undertaken in the Research and Entrepreneurship Park of IIT Bhubaneswar.

Mr. Shreyas Shibulal, Founder & CEO of Numeros Motors, commented on the collaboration: "*Innovation is at the core of everything we do at Numeros Motors. Our partnership with IIT Bhubaneswar marks a significant step in our mission to transform India's electric mobility landscape. We believe that rare earth-free motor technologies will play a crucial role in building sustainable, affordable, and truly indigenous EVs. Scaling these technologies will help reduce import dependency, lower production costs, and contribute meaningfully to a greener, more self-reliant EV ecosystem in India.*"

Dr. Ankit Dalal, Assistant Professor at Electrical Engineering Department, IIT Bhubaneswar said *"We're excited to embark on this two-year research journey with Numeros Motors to develop rare-earth-free motor technologies. This partnership represents a shared commitment to sustainable innovation and cutting-edge engineering. With Numeros' industry leadership and our research capabilities at IIT, we look forward to creating impactful solutions for the future of electric mobility."*

The signing ceremony was attended by representatives from both Numeros Motors and IIT Bhubaneswar, underscoring their shared commitment to pioneering future-ready electric mobility solutions that are both efficient and ecologically sustainable.
