

## Dr. Debabrata Rautaray

Senior Scientist – Advanced Materials & Green Chemistry Division

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### **Educational Qualifications:**

Ph.D. in Materials Science (Nanotechnology) from National Chemicals Laboratory, Pune

### **Experience & Contributions:**

Dr. Debabrata Rautaray has 14 years of scientific research expertise with 10 years of industrial research experience. He has received his masters in Physics from Dept. of Physics, University of Pune during the year 2000. He has completed his PhD from the Nanotechnology group, Physical & Materials Science Division, National Chemical Laboratory, Pune in 2004. He has 34 international research publications, is inventor of more than 24 Patents, contributed several articles for nanotech magazines & more than 30 invited lectures in fields related to nanotechnology, material science, food & nutrition and water purification. He is also serving as reviewer for international journals. He held visiting scientist positions at NanoDynamics, Ohio State University campus (2005-06) & at Massachusetts Institute of technology, Boston, USA (2009-10). He has contributed in setting up a nanotechnology R&D facility at the Tata Chemicals Innovation Centre. Additionally, he had setup a indigenous water research laboratory having capabilities spanning material synthesis, device fabrication, product form factor & analysis of water samples using international standard protocols. He has contributed two successful commercial products in the area of water purification in the form of Tata Swach (2009) & Tata Swach Crystella (2013). At the Innovation Centre, Dr. Rautaray's expertise lies in the application of nanotechnology in water purification, health & wellness industry.

### **Dr. Rautaray is recipient of several honors & recognitions:**

- 1) Directors Commendation award for the research work at the National Chemicals Laboratory, Pune -2004.
- 2) Winner of Tata Innovista 2009 for the Innovation in a commercial product in the Dare to Try Category.
- 3) Tata Chemical's Managing Director's appreciation awards (2008 & 2011) for contributing two technologies for Tata Swach Water purifier
- 4) Promising technology idea of the Year 2011-12 award at the Tata Chemicals Ltd annual award ceremony.
- 5) Winner of Tata Innovista 2012 for the Innovation in a commercial project in the Leading Edge category.
- 6) Winner of Tata Innovista 2014 for the Innovation in a commercial product in the Promising Innovation category.

