

*For Immediate Release*

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## **Suzlon Designs and Produces India's longest wind turbine blade of 63 meters**

- Longest wind turbine blade ever manufactured in India
- Rotor blade for the new S128 series of wind turbines
- Rotor blade incorporates advance aerodynamics and carbon fiber technology

**India:** Suzlon Group, India's largest renewable energy solutions provider has designed and manufactured the country's longest wind turbine blade at its Padubidri Rotor Blade Unit. The advanced blade (SB 63) measures 63 meters in length and has been specifically developed for Suzlon's new S128 wind turbine family with a rotor diameter of 128 meters, 1.5 times taller than the India Gate monument in terms of height. Suzlon's turbines have been setting industry benchmarks across the technology value chain by bringing global scale capability to India.

This blade has been engineered with a carbon girder which provides the capability to utilize thinner aerodynamic profiles and provides higher lift with less drag to contribute to the turbine's excellent performance in low wind sites. The blade also incorporates flat back technology at the root that minimizes drag and saves additional weight and cost. The S128 series offers ~33% more swept area (12,860 m<sup>2</sup>) and is expected to deliver ~32% more energy generation compared to the S111. With an increase in the swept area Suzlon's next generation turbine is well equipped to improve energy yield and support competitive tariff environment in India while protecting our customers return on investment.

These rotor blades will be transported using an innovative two fold transport system, which will use a specialized 'Adapter Trailer' for the first time in India, which ensures safe and unbound maneuverability through the hilly terrain, while transporting the long blades. This innovative approach will ensure a safe, cost effective and time efficient mode of transport for the 63 meters long rotor blade to the most remote areas.

**J.P. Chalasani, Group CEO, Suzlon Group** said *"It has been our continuous endeavor to reduce the levelised cost of energy (LCoE) by leveraging technology. Our R&D efforts are focused on developing technologically advanced and innovative products. The new blade will offer higher aerodynamic performance and improved annual energy production (AEP) and will harness the optimal available wind resources."*

**Duncan Koerbel, Chief Technology Officer (CTO), Suzlon Energy,** said *"The SB 63 blade is the longest and most efficient aerodynamic blade Suzlon has ever produced. We have introduced carbon fiber in the new*

*generation of blades. This simultaneously reduces the weight of the blade and allows us to design even more aggressive airfoils. This creates a win-win solution for our turbine and our clients.”*

**About Suzlon Group:**

Suzlon group is one of the leading renewable energy solutions provider in the world with an international presence across 18 countries in Asia, Australia, Europe, Africa and Americas. Headquartered at Suzlon One Earth in Pune, India; the group is comprised of Suzlon Energy Limited (NSE & BSE: SUZLON) and its subsidiaries. A vertically integrated organization, with over two decades of operational track record, the group has a cumulative installation of over 17 GW of wind energy capacity, over 7,600 employees with diverse nationalities and world-class manufacturing facilities. Suzlon is the only Indian wind energy company with a large in-house Research and Development (R&D) set-up in Germany, the Netherlands, Denmark and India. Over 11 GW of the group’s installation is in India, which makes up for ~35% of the country’s wind installations, making Suzlon the largest player in this sector. The group is the custodian of over 15 GW of wind assets under service globally. The company has also forayed into the solar space. Suzlon corporate website: [www.suzlon.com](http://www.suzlon.com) Follow us on Social media:    

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Suzlon SB63 blade mounted on an innovative adapter trailer



Suzlon SB 63 blade being inspected at Padubidri factory

**Please get in touch incase you need high resolution image of the SB63 blade or the S128 WTG**