

Centre of Excellence in Renewable Energy
at
Sandip Foundation's
Sandip Institute of Engineering and Management (SIEM),
Nashik

Aksol Renewables Pvt Ltd, having corporate office at 221, Bodake Plaza, Dwarka, Nashik, Maharashtra, India-422011 and Sandip Foundation's Sandip Institute of Engineering and Management (SIEM), Mahiravani, Nashik an educational institute registered under Savitribai Phule Pune University, and having its Registered office at At post Mahiravani, Trimbak Road, Nashik has set a Centre of Excellence.

India is endowed with a very vast solar energy potential with most parts of the country have about 300 sunny days and an average solar radiation incident over the land in the range of 4-7 kWh per day. International Energy Agency (IEA) estimates show that India's solar potential is greater than 750 GW and its announced wind potential is 302 GW (actual could be higher than 1000 GW). India Energy Security Scenarios 2047 show a possibility of achieving a high of 479 GW of solar PV by 2047.

The purpose of this MOU is to enhance the skill and research and development in renewable energy sector.

- (a)** To undertake India specific application development that matches with behavioral pattern of the masses and adds value to their day-to-day activities both economic and social.
- (b)** To undertake cross-pollination of best practices world over and make it suitable in Indian context. This helps in creating optimal models that avoid duplication and wastage of resources especially in the field of Renewable Energy.
- (c)** Macro infrastructure planning that enables a systematic and sustained growth in a cost effective manner.
- (d)** Creation of market ready talent pool and continuous talent building endeavor through training of the trainer.
- (e)** Integration and benchmarking of technology that can ultimately lead to form standards for manufacturing or rendering services.
- (f)** Create an environment of Innovation in the field of renewable energy to enable absorption of the current technology and develop future ready indigenous capability.

Fund for the COE

Requirement	Allocated Fund
Lab space / building Infrastructure	Rs. 1.5 Lakhs
Equipment and tools	Rs. 4 Lakhs
Research faculty, fellowship and Internship cost	Rs. 5 lakhs
Incubation / Entrepreneurship Development	Rs. 3 Lakhs
Seminar/Travel /Overhead/ Consumables/ Contingency	Rs. 1.5 Lakhs
Total amount for five years	Rs. 15 Lakhs

Aksol Renewables Pvt Ltd is to provide 100 % budgetary support.

Major Activity of COE: Fundamentally the following types of activities will generally be undertaken at the centre of excellence:

- a) Continuous talent building: Create world-class human capital in the emerging & continuously evolving renewable energy domain through state-of-the-art training and development mechanisms. Post-graduate research initiatives, Post- doctoral/visiting positions up to 3 years and in-house research activities may be initiated.
- b) Application Oriented R&D: Revive and promote Applied Research and Development to adapt and sustain emerging and futuristic technologies in Indian and emerging market context.
- c) Cross pollination of ideas: Development of India specific solutions both for rural and urban applications derived from multiple technologies shall be carried out. International collaboration with premier institutions and R &D centre shall be pursued.
- d) Benchmarking of Best Practices: Identifying and capturing best in class practices across countries, knowledge creation & sharing.
- e) Standardization Activities: The centre of excellence will provide excellent scope for active participation in the international standardization forums. To provide the core strength and help the Coordination Centre to coordinate such that an active participation and representation takes place from the network of COE in the standardization forums.
- f) Apart from the/research and technology development that will be carried out within the financial support provided in 12(a), additional research and project activity shall be taken up on need basis from industry and other organizations with additional budgetary provision.

Faculty In charge:

Shantanu G. Pande (Assistant Professor, Civil Engineering Department)

Ms. Nikita Gangurde (Aksol Renewables Pvt Ltd)