



**डॉ० ए०पी०जे० अब्दुल कलाम प्राविधिक विश्वविद्यालय, उत्तर प्रदेश, लखनऊ**

**Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow**

(Formerly Uttar Pradesh Technical University)

Website: <https://aktu.ac.in/>

**Criterion : 3**

**Key Indicator : 3.7**

**Metric Number : 3.7.1\_MOU between FOAP,AKTU and UPNEDA**



सत्यमेव जयते

# INDIA NON JUDICIAL Government of Uttar Pradesh

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## Memorandum of Understanding Between

Please write your signature on this line.



**Faculty of Architecture and Planning,  
Dr APJ Abdul Kalam Technical University, Lucknow  
(Hereinafter called FoAP, AKTU)**

And



**Uttar Pradesh New & Renewable Energy Development Agency  
(Hereinafter called UPNEDA)**

*Ram Kumar*  
**Er. Ram Kumar**  
SPO/ Incharge Building Cell  
UPNEDA/ UPSDA

*Dr. A.P.J. Abdul Kalam*  
**Dr. A.P.J. Abdul Kalam**  
Principal  
Faculty of Architecture  
Dr. A.P.J. Abdul Kalam  
Technical University

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7/10/2021



## PREAMBLE

India is currently undergoing energy transition with growing share of Renewable Energy Sources in the overall energy consumption. Co-operation and close coordination between Government Agencies like Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA) and centers of knowledge like the Faculty of Architecture and Planning, Dr APJ Abdul Kalam Technical University, Lucknow (FOAP, AKTU) will further streamline and accelerate this process, which is beneficial both for the economy and the environment. This MoU between FOA, AKTU, Lucknow and UPNEDA is being done with the overall vision of "Propagation of the use of Renewable energy in the built environment and creating documentation, services, maintenance and supply of data including patent literature, current status reports etc., in the area of energy management and publish results in the form of manuals for the State of Uttar Pradesh."

## FACULTY OF ARCHITECTURE AND PLANNING, ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW

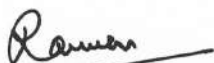
FOAP, AKTU (Earlier Government College of Architecture) was established in 1911 as College of Arts and Crafts that was re-established in 1980 as a Government College of Architecture. Today, it is the Faculty of Architecture of Abdul Kalam Technical University. It runs a Bachelor in Architecture for 80 students, Masters in Architecture, Masters in Urban and Regional Planning and Masters in Architecture (Environmental Design and Interior Design). It offers a doctoral programme for the last 7 years where more than 30 students are already enrolled.

The Faculty of Architecture and Planning, AKTU, will be expanding in the next three years to include five specialisations in architecture with more than six hundred students in its fully residential campus. The Architecture department is committed to producing the best-equipped architects and planners to take up the global physical and socio-environmental development challenges. The Institute strives for social sustenance through universal design, cultural sustenance through conservation and environmental sustenance through the disciplines of architecture, planning and design.

FOAP runs Centre for Excellence which has three verticals:

- Sustainable Environment
- Planning
- Heritage

The FOAP is already involved in Institutional Consultancy of Architecture, Planning, Landscape, Conservation and Interior Design and therefore partners in prestigious design and Development projects of Central and State Government.



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## UTTAR PRADESH NEW & RENEWABLE ENERGY DEVELOPMENT AGENCY (UPNEDA)

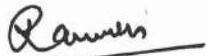
Non-Conventional Energy Development Agency, U.P. (NEDA) was set up in 1983 as a registered society under the Department of Additional Sources of Energy, Govt. of U.P. The Director of the Agency is Chief Executive and responsible for formulation and implementation of the programmes of development of Non-Conventional Sources of Energy in the State and work under the administrative control of the Principal Secretary/ACS to the Govt., Department of Additional Source of Energy. The Agency has inter-alia following functions:

- Propagation of the concept of renewable sources of energy and energy conservation.
- Promoting the use of renewable energy systems and means of saving energy in various sectors.
- Research and development primarily of applied nature in the field of renewable sources of energy and energy conservation.


The agency is working in the field of Solar Energy, Wind Energy, Bio Energy, Micro Hydel and Energy Conservation besides energy planning and other aspects of energy management.

### OBJECTIVES OF UPNEDA

- To formulate and implement projects aimed at supplementing energy requirements of the State by harnessing solar energy, bio energy, wind energy and other renewable sources of energy including micro hydel.
- To identify, formulate and implement schemes relating to energy plantations.
- To sponsor, co-ordinate or promote research programmes or projects of a developmental nature involving development of prototypes, pilot plant investigations etc. in the area of new sources of alternate energy.
- To take up demonstration programmes in the field of non-conventional energy sources in order to generate awareness and popularise the use of non-conventional energy systems among the people.
- To standardise designs of renewable energy systems and provide consultancy services, and technical know-how to the users, promoters and manufacturers of various systems and devices of renewable sources of energy and energy conservation.
- To promote equipment relating to alternate sources of energy by offering subsidy, marketing, publicity and such other support as may be found necessary.
- To liaise with other agencies in the country and or abroad in the field of alternate sources of energy.
- To co-operate and affiliate, if necessary, with other similar institutions, associations or bodies in India and abroad.
- To advise the State Govt., Central Govt., Panchayats, Municipalities, Municipal Corporation and other local bodies and Semi-Govt. Agencies in the State and elsewhere on all such matters pertaining to alternate energy sources, as may be referred to it from time to time, and to undertake on its own or in collaboration or through some other arrangements with national or international agencies, programme of research application, extension and development of energy resources.

  
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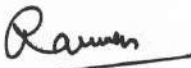


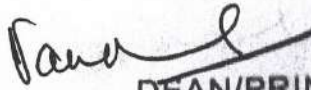
- To undertake or sponsor studies of environmental effect of energy generation, distribution and utilization.
- To sponsor or undertake techno-economic and socio-economic feasibility studies or cost benefit analysis with respect to additional and renewable sources of energy.
- To provide technical, financial or other assistance for the formulation of programmes, designs and projects meant for extension of alternate energy development programme in the State.
- To formulate and implement a broad based energy conservation programme including the scope for conservation of energy at the source of generation, at the Stage of distribution and/ or consumption.
- To take special steps to foster among the people the concept of utilization of alternate sources of energy as a part of their life and environment.
- To take advice and help of scientists, technologists and such other persons, who have expertise in the field of non-conventional energy, for the promotion and development of non-conventional energy systems.
- To develop and support centers of documentation, services, maintenance and supply of data including patent literature, current status reports etc., in the area of energy management and publish results on alternate sources of energy.
- To acquire by gift, purchase, exchange, lease, hire or otherwise any property movable or immovable and to construct, improve, alter, demolish or repair building works and constructions as may be necessary or convenient for carrying the activities of the society. To accept donations, grants, contributions or financial assistance from governmental, or private institutions, persons or any other sources with a view to fulfill all or any of the above objects.
- To co-operate with any other body or persons as may be decided by the Executive Committee.
- UPNEDA has been nominated as UP State Designated Agency (UPSDA) by state Govt under Energy Conservation Act 2005 for the Energy Efficiency and Energy Conservation activities in the state.

**It is hereby agreed that the Faculty of Architecture and Planning, AKTU, Lucknow and Uttar Pradesh New & Renewable Energy Development Agency enter into a Memorandum of Understanding under the terms, conditions and scope described herein:**

#### **Objectives**

- Disseminating codes (UPECBC-2018 for Govt. & Commercial Buildings and Eco Niwas Samhita for residential buildings) as a goal for the building sector through awareness programs, seminars, workshops, short courses, etc, as a concentrated effort toward mitigating the adverse effects of mindless development.
- Creating human resource and capacity building for the sustainable building sector, focusing on energy efficiency and use of renewable energy sources.

  
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- Upliftment of living standards of rural population by educating them on better and scientific ways to build their homes using energy efficient building practices.
- Develop innovative, contextual and practical knowledge on designing sustainable structures.
- Develop an exemplary model of building design and technologies for Energy Efficiency.
- Disseminate knowledge related to Energy Efficiency and Renewable energy amongst organizations, officials, professionals, consultants and other stakeholders.

### **Commitment and Activities**

The UPNEDA and FOAP, AKTU within the framework of this Memorandum of Understanding, express their commitment to function in four major areas to achieve the above objectives:

- **Identification of priority Research Areas and Networking for the Sustainability Sector:**

Frame research questions relevant to the development of society and the sector;  
Conduct brainstorming sessions and identify the of priority areas .  
Connect all stakeholders to address these priority areas.

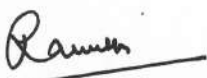
- **Education, Skill Development and Training:**

Act as a resource centre to promote Energy Efficiency and Renewable energy resources at local, regional and national levels.  
Organize special lectures, workshops, public exhibitions, conferences and awareness campaigns on the concerning areas.  
Organize trainings and workshops and student competitions.  
Organize skill development and vocational training programs for Energy Efficiency and Renewable energy technologies for construction workers, architects, engineers, etc.  
Organise workshops for higher officials to facilitate policy and decision making for energy efficiency in the building sector.  
Develop course content for various levels and of different durations on Energy efficiency in the building sector.

- **Research and Design Development:**

Initiate and support student projects in the identified priority areas.  
Documentation of practical applications of design techniques for Energy Efficiency and Renewable energy resources in the building sector for the state and county.  
To undertake or sponsor projects and research studies on the environmental effects of energy generation, distribution and consumption.

- **Dissemination:**

  
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Bring out publications in print and multimedia on the subject for information sharing and developing a body of knowledge for all stakeholders working in this sector.

- **Material resource and linkages:**

Forming linkages for the application of Energy Efficiency and Renewable energy Technologies in various industries

### **III. Financial and in-kind contribution**

This MOU does not set forth any financial contribution from the Signatories. • FOA, AKTU and UPNEDA may take up projects jointly in the areas mentioned above on mutually discussed and agreed terms and conditions.

FOAP, AKTU and UPNEDA may jointly take up projects with funding under various schemes of UNIDO, UNDP, USAID, GIZ, International Copper Association of India and other such national and international agencies involved in Energy Efficiency and Renewable energy resources.

### **IV. Implementation of the Cooperation Programme**

a) This MOU comes into effect with the signatures of authorised representatives of both Parties. The Parties are at liberty to terminate this memorandum at any time, upon providing a notice of termination at least one month in advance;

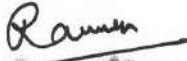
b) The Parties shall make all the necessary arrangements to ensure mutually satisfactory implementation of the MoU;

c) For every joint programme, supplementary MoU may be signed with specific activities and roles and responsibilities.


d) The Parties shall publicise the MoU by mentioning it in any relevant document and material related to the activities implemented under the MoU;

e) The parties will not use the name, trademark, logo drawings, reports, articles, images and other documents prepared by and of each other in any sales or marketing, publication or advertisement, or for any other commercial purpose without the prior written consent of each other.

f) This MoU may be amended at any time by written agreement of both the Parties;


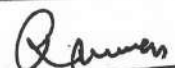
  
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g) The Parties have signed this Memorandum of Understanding in two original copies in English on the date indicated below:

<p>For FoAP, AKTU, Lucknow</p> <p></p> <p>Prof Vandana Sehgal Dean &amp; Principal FOA, AKTU, Lucknow Date: 13<sup>th</sup> October 2021</p> <p><b>DEAN/PRINCIPAL</b> Faculty of Architecture Dr. A.P.J. Abdul Kalam Technical University, U.P. Tagore Marg, Lucknow-226007</p>	<p>For UPNEDA</p> <p></p> <p><b>Er. Ram Kumar</b> SPO/ Incharge Building Cell UPNEDA/ UPSDA, Lucknow</p> <p>Shri Ram Kumar, Senior Project officer, UPNEDA Date: 13<sup>th</sup> October 2021</p>
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Dr. A. P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow



Awareness B-workshop