

TIMES Celebrating Women

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WOMEN POWER: BREAKING THE GLASS CEILING THE CHANGE AGENT

Managing university & professional institutes delivering quality education When it comes to bringing about a change and making it count for the larger society, Dr Sadhna Kapoor, Chancellor of RKDF University, Bhopal has always remained at the forefront. As an academican, a social worker and a medical practitioner she has always tried to contribute to make the lives of common man easy and comfortable. Her initiatives in providing holistic and affordable medical diagnostic facilities to people specially to marginalized class of the society in Bhopal is well known, but having done that she has moved ahead with the greater cause of environmental conservation.

Under her guidance, the RKDF university has set up a unique plant in 1 acre area in the campus that helps in capturing and controlling carbon emissions. This is claimed to be the world's first "Carbon Capture and Sequestration" (CCS) plant integrated with Solar Thermal Technologies. This is claimed to be the world's third and Asia's first carbon capture plant till date.

The technology and pilot project at RKDF university premises has been acclaimed by environmentalist's world over and Dr Sadhna Kapoor was recently awarded with "Grand Star Success Award" for Role of Universities in Sustainable Development by Oxford Academic Union, UK.

Earlier, Dr Kapoor was awarded the title of Honorary Professor by Oxford Academy in the year 2017 at a function in Switzerland.

A Clean Green Initiative

The Carbon Capture and Sequestration (CCS) plant integrated with Solar Thermal Technologies has been designed, manufactured in collaboration with Rensselaer Polytechnic Institute, New York and the Ministry of New and Renewable Energy, Government of India. It has been installed at RKDF university, Bhopal premises as a pilot project.

The unit envisages trapping of gases emitted from the coal-fired thermal power plants and treating them with algae to

convert it to high quality biodiesel. The unit has been designed to tap about 250 kgs/hr flue gas from the chimneys of coal fired power plants. CO2 content in the coal fired flue gas is about 18% and thus the system helps to remove 45 kg/hr CO2 from the flue gas and recover for potential use.

The technology and project will go a long way in reducing and neutralizing carbon emissions, especially those emitted from the thermal power plants. The project and its success have been included by the Government of India's NITI Ayog report. The Union Ministry of Energy and the Council for Scientific and Industrial Research (CSIR) are considering to extend the project to other parts and train young scientists about it. The project gained attraction at the India International Science Festival.

Under the leadership of Dr. Sadhna Kapoor the University has worked on "Bukhari Project" which is mainly for the use of



Dr Sadhna Kapoor, MBBS, PGDDM



defense personnel's posted at high altitude. This device will be helpful to generate electricity to facilitate light and charging of equipments

Briefing about the details Dr V.K.Sethi, Project Director told TOI that the data collected in the initial months suggest that the unit works at about 84% efficiency and is helpful in reducing carbon emissions. He says that if India has to grow to its potential, it will have to control its greenhouse emissions, which is about 2,900 million tons/year. Emissions from thermal power plants contribute to 55% of this greenhouse gases, he said.

Vice-chancellor of RKDF University, Bhopal Prof. Vijay Agrawal said that it is a matter of pride that the pilot project and initiative by the university is being recognized by the Ministry of Power, Government of India and NTPC is also mulling about a collaboration, to help reduce greenhouse gases. We are also going to have joint project for analyzing the data and simulation for deciding the price of carbon with experts in this field.



KEY INITIATIVES

- Operating diagnostic centres in Madhya Pradesh
- Managing social institute for physically challenged students
- Helping rural kids with education



GIVING WINGS TO ASPIRATIONS

It's all in the family. As the saying goes, like mother, like daughter, Dr Shruti Kapoor, MBBS, MD is the youngest Chancellor of a university—Dr A.P.J. Abdul Kalam University, Indore. A qualified medical practitioner, Dr Shruti, is pursuing her passion to create a talent pool of professionals backed with quality education who are second to none.

From her busy schedule she always finds time for studies and actively involved in medical research. As a result of which many excellent publications are registered to her credit and appeared in reputed journals.

As Chancellor of Dr A.P.J. Abdul Kalam University, Indore Dr Shruti is currently focusing on Foreign University Exchange Programmes. To provide better global exposure to the local students of the university and make them aware of modern tools and innovations, she has successfully tied up with different leading global universities for exchange programmes. She has introduced ethical value added educational courses in the university for all graduate students. To facilitate the meritorious students she has taken initiatives to provide upto 50% reduction in tuition fees for those who obtain 75% and above in qualifying examinations. She has also introduced Chancellor's Cash Prize award to top three students of the University in technical as well as non-technical courses each year.

Under Dr Shruti's guidance the RKDF University, Ranchi introduced the Tree Ambulance facility which has been visualized to protect environment which shows her concern for the nature. The Government of India, Ministry of Coal has praised the efforts made by her and donated Tree ambulances to the university.

For the last three years, Dr Shruti is also working as Chief Executive Officer of



demands. More emphasis is being given to train the poor and marginalized sections of the society in its manufacture to earn their livelihood. As a result Her project was acclaimed and awarded at the 14th National Children Science Congress held at Gangtok.



Dr Shruti Kapoor, MBBS, MD (Radio Diagnosis)

M/s Shruti Media & Publicity Pvt Ltd. An enterprise Radio Popcorn, associated to company, the first community radio station in Madhya Pradesh is gaining popularity day-by day. The programmes focusses on awareness of community health, self employment, education, awareness on HIV, AIDS, water conservation, alcoholism and women empowerment.

She is promoting self employment among students and facilitates them hands on training in manufacturing of various domestic products like floor cleaners, tile cleaners, bathroom cleaners, disinfectants, sanitizers of excellent quality. Apart from this she has designed high quality beauty products and decorative candles which are of high



ACHIEVEMENTS

- Book, "Analysis on Micronutrient Biomarkers as Diagnostic Tool of Malnutrition in Adolescents"
- Research paper on "Unavoidable Health Menaces of Tattoo Inks" - Int' Journal of Humanities Engineering, Science & Management
- Research paper on "Analysis of Residue of Pesticide Spayed on Lady's Finger Before and After Washing with Anti-toxic Fluids" - Int' Journal of Humanities Engineering, Science & Management
- Research papers on Sickle Cell Anaemia
- Research papers on "Burden of sickle cell diseases among tribes of India- A burning problem" International Research Journal of Pharmaceutical and Applied Science
- Research papers on "Quantitative Analysis of Trace Elements and Haemoglobin as Biological Markers in Patients with Oral Submucous Fibrosis in Central India" The Journal of Public Health
- Research papers on Burden of Haemoglobinopathies in Madhya Pradesh (Central India); International Journal of Biotechnology
- Research papers on Pre-vaccine immunity and mortality in COVID-19. Saudi Journal of Biological Sciences.
- Patent filed on High Energy Density Salt Synthesis for Thermal Energy Storage Application

KEY INITIATIVES:

- Academican, blending traditional values with modern education
- Social worker, rural media
- Innovator and researcher



(...Nurturing Talents to Success)

