



Mau's Dakshayani Pandey's Car Security Model | Uttar Pradesh | 06 Jan 2023

Why In News?

On January 5, 2023, Dakshayani Pandey (17 years), daughter of a poor farmer in Mau district of Uttar Pradesh, was **selected on the basis of her car safety model with a 100% scholarship at Stanford University in California, USA**. She is currently studying in class 12.

Key Points

- It is noteworthy that after seeing the incident of the death of an innocent in the car due to suffocation on television, a distressed Dakshayani Pandey created a model of car safety, which the whole world is amazed to see and hear. Influenced by this model, he got a call from Stanford University.
 - Dakshayani Pandey will leave for the US in September 2023 for bio-engineering and entrepreneurship on a scholarship.
 - They have created a safety setup for '**Mission Protector**' cars. It activates as the carbon dioxide level in the vehicle increases and rolls the car window to allow fresh air inside. In fact, if the car is running and its glass is closed, carbon dioxide gas accumulates inside it. Due to this, the lives of people sitting in the car are in danger. But the specialty of the mission protector is that as soon as the amount of carbon dioxide in the car increases, it will immediately alert and automatically the glass of the car will go down.
 - Dakshayani first showcased her model at the **India at 75 National Ideathon-2021** held at IIT Delhi, in which her model stood first. She will patent her '**Mission Protector**'.
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First Plant to Make Coal from Waste in Banaras | Uttar Pradesh | 06 Jan 2023

Why In News?

On January 4, 2023, Ajay Ram, executive engineer of Banaras Municipal Corporation of Uttar Pradesh, said that Banaras, famous for religion and culture, will now give the country a plant to make coal from waste. The **first plant to make coal from waste is under construction at Ramna in Banaras**.

Key Points

- Engineer Ajay Ram said that after the start of the plant at Ramna in Banaras, 200 tonnes of coal will be produced from **600 tonnes of waste per day**. This will be the first plant in the country to make coal from waste, which is being constructed by NTPC. Coal will be made from waste in the plant. Its successful test was done in October 2022.

- NTPC is conducting technical testing of one unit of the plant as per the prescribed standards. The first unit of the plant will be commissioned by the end of June. After production, coal will be sold to the concerned companies in the surrounding districts.
- Varanasi generates 600 tonnes of garbage per day on normal days and 800 tonnes on special occasions. It is transported by large trucks to garbage disposal plants outside the city.
- He said that if this project is successful on a three-year trial, then the plant will be set up in other states as well. The plant is being built keeping in mind the next 25 years. The plant will have a capacity to process more than 800 tonnes of waste. The plant is targeted to be commissioned by December 2023.

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