



E-Tractor

 drishtias.com/printpdf/e-tractor

Why in News

On October 17, 2021, Chaudhary Charan Singh Haryana Agricultural University, Hisar became the first agricultural university in the country to conduct research on electric tractors.

Key Points

- University Vice Chancellor Professor B.R. Kamboj said that this e-tractor covers 23.17 km. Can run at a maximum speed of 1.5 tonnes per hour, and can travel 80 kms with a trailer weighing 1.5 tonnes. The income of the farmers will also increase with the use of this tractor.
- A 16.2 kWh lithium-ion battery has been used in the e-tractor which can be fully charged in 09 hours. During this, 19 to 20 units of electricity are consumed.
- It also has the option of fast charging, with the help of which the tractor's battery can be charged in just 4 hours. The tractor has a very good drawbar pull of 77 percent. In terms of the cost of operation of the electric tractor, it is 32 percent and 25.72 percent cheaper than diesel tractor.
- In this tractor, 52 percent vibration and 20.52 percent noise were found below the maximum permissible limit of the BIS code.
- Due to the lack of an engine with the operator in the tractor, heat is also not generated, which will prove to be absolutely comfortable for the operator.