



## Anti-Mine Infantry Boots

### Why In News?

On 1 June 2023, Dr. Mayank Dwivedi, director of DMSRDE (Defence Material Stores and Research & Development Establishment), told that the scientists of the institute have prepared special shoes for the infantry battalion of the army, which will keep the soldiers safe when mines explode.

### Key Points:

- This special type of boots will greatly reduce the effect of the pressure on the mines. There will be an explosion after falling on it, but there will not be much damage.
- The biggest challenge of the infantry battalion of the Indian Army is to protect the soldiers from mines. Often the legs of soldiers get seriously injured due to the explosion of mines laid by the enemies. For this, the army had sought help from the scientists of DMSRDE. After about two-three years of research, scientists have succeeded in making it.
- The Anti Mine Infantry Boots are made from a hybrid blend of several types of lightweight ceramic porous and aramid. Because of this, despite weighing three kilograms, there is no pressure from the shoe.
- The Anti Mine Infantry Boots have been tested several times. During testing in M-14 mines, it was observed that these boots reduced the pressure by more than 160 times. Due to this, the mines exploded, but there was no damage.

